

**ARTICOLE ȘTIINȚIFICE:**

**ARTICOLE ISI PUBLICATE CA AUTOR PRINCIPAL**

**Title:** Metal Complexes-A Promising Approach to Target Biofilm Associated Infections

**Author(s):** Olar, R (Olar, Rodica); Badea, M (Badea, Mihaela); Chifiriuc, MC (Chifiriuc, Mariana Carmen)

**Source:** MOLECULES **Volume:** 27 **Issue:** 3 **Article**

**Number:** 758 **DOI:** 10.3390/molecules27030758 **Published:** FEB 2022

**Accession Number:** WOS:000756307600001

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**Title:** Gut Dysbiosis and Clostridioides difficile Infection in Neonates and Adults

**Author(s):** Vasilescu, IM (Vasilescu, Iulia-Magdalena); Chifiriuc, MC (Chifiriuc, Mariana-Carmen); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Filip, R (Filip, Roxana); Bolocan, A (Bolocan, Alexandra); Lazar, V (Lazar, Veronica); Ditu, LM (Ditu, Lia-Mara); Bleotu, C (Bleotu, Coralia)

**Source:** FRONTIERS IN MICROBIOLOGY **Volume:** 12 **Article**

**Number:** 651081 **DOI:** 10.3389/fmicb.2021.651081 **Published:** JAN 20 2022

**Accession Number:** WOS:000750563100001

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**Title:** Structural Bioinformatics Used to Predict the Protein Targets of Remdesivir and Flavones in SARS-CoV-2 Infection

**Author(s):** Speranta, A (Speranta, Avram); Manoliu, L (Manoliu, Laura); Sogor, C (Sogor, Catalina); Mernea, M (Mernea, Maria); Seiman, CD (Seiman, Corina Duda); Seiman, DD (Seiman, Daniel Duda); Chifiriuc, C (Chifiriuc, Carmen)

**Source:** MEDICINAL CHEMISTRY **Volume:** 18 **Issue:** 3 **Pages:** 382-

393 **DOI:** 10.2174/1573406417666210806154129 **Published:** 2022

**Accession Number:** WOS:000745043300001

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**Title:** Demonstration of Allium sativum Extract Inhibitory Effect on Biodeteriogenic Microbial Strain Growth, Biofilm Development, and Enzymatic and Organic Acid Production

**Author(s):** Corbu, VM (Corbu, Viorica Maria); Gheorghe, I (Gheorghe, Irina); Marinas, IC (Marinas, Ioana Cristina); Geana, EI (Geana, Elisabeta Irina); Moza, MI (Moza, Maria Iasmina); Csutak, O (Csutak, Ortansa); Chifiriuc, MC (Chifiriuc, Mariana Carmen)

**Source:** MOLECULES **Volume:** 26 **Issue:** 23 **Article**

**Number:** 7195 **DOI:** 10.3390/molecules26237195 **Published:** DEC 2021

**Accession Number:** WOS:000734563400001

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**Title:** Nitrogen and Bromide Co-Doped Hydroxyapatite Thin Films with Antimicrobial Properties

**Author(s):** Iconaru, SL (Iconaru, Simona Liliana); Ciobanu, CS (Ciobanu, Carmen Steluta); Predoi, D (Predoi, Daniela); Motelica-Heino, M (Motelica-Heino, Mikael); Negrila, CC (Negrila, Constantin Catalin); Badea, ML (Badea, Monica Luminita); Predoi, MV (Predoi, Mihai Valentin); Chifiriuc, CM (Chifiriuc, Carmen Mariana); Popa, M (Popa, Marcela)

**Source:** COATINGS **Volume:** 11 **Issue:** 12 **Article**

**Number:** 1505 **DOI:** 10.3390/coatings11121505 **Published:** DEC 2021

**Accession Number:** WOS:000735963000001

**Title:** Antiviral Immunity in SARS-CoV-2 Infection: From Protective to Deleterious Responses

**Author(s):** Mihaescu, G (Mihaescu, Grigore); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Vrancianu, CO (Vrancianu, Corneliu Ovidiu); Constantin, M (Constantin, Marian); Filip, R (Filip, Roxana); Popescu, MR (Popescu, Mihaela Roxana); Burlibasa, L (Burlibasa, Liliana); Nicoara, AC (Nicoara, Anca Cecilia); Bolocan, A (Bolocan, Alexandra); Ilescu, C (Ilescu, Ciprian); Pircalabioru, GG (Gradisteanu Pircalabioru, Gratiela)

**Source:** MICROORGANISMS **Volume:** 9 **Issue:** 12 **Article**

**Number:** 2578 **DOI:** 10.3390/microorganisms9122578 **Published:** DEC 2021

**Accession Number:** WOS:000735965200001

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**Title:** chemical composition, antimicrobial and antioxidant activity of *Phytolacca americana* L. fruits and leaves extracts

**Author(s):** Marinas, IC (Marinas, Ioana Cristina); Oprea, E (Oprea, Eliza); Geana, EI (Geana, Elisabeta-Irina); Luntraru, CM (Luntraru, Cristina Mihaela); Gird, CE (Gird, Cerasela Elena);

**Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**

**Source:** FARMACIA **Volume:** 69 **Issue:** 5 **Pages:** 883-

889 **DOI:** 10.31925/farmacia.2021.5.9 **Published:** SEP-OCT 2021

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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**Title:** Antiproliferative and antibacterial properties of biocompatible copper(II) complexes bearing chelating N,N-heterocycle ligands and potential mechanisms of action

**Author(s):** Olar, R (Olar, Rodica); Badea, M (Badea, Mihaela); Bacalum, M (Bacalum, Mihaela); Raileanu, M (Raileanu, Mina); Ruta, LL (Ruta, Lavinia L.); Farcasanu, IC (Farcasanu, Ileana C.); Rostas, AM (Rostas, Arpad Mihai); Vlaicu, ID (Vlaicu, Ioana Dorina); Popa, M (Popa, Marcela);

**Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

**Source:** BIOMETALS **Volume:** 34 **Issue:** 5 **Pages:** 1155-1172 **DOI:** 10.1007/s10534-021-00334-9 **Early Access Date:** AUG 2021 **Published:** OCT 2021

**ISSN:** 0966-0844

**eISSN:** 1572-8773

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**Title:** Modulation of Quorum Sensing and Biofilms in Less Investigated Gram-Negative ESKAPE Pathogens

**Author(s):** Lazar, V (Lazar, Veronica); Holban, AM (Holban, Alina Maria); Curutiu, C (Curutiu, Carmen); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

**Source:** FRONTIERS IN MICROBIOLOGY **Volume:** 12 **Article**

**Number:** 676510 **DOI:** 10.3389/fmicb.2021.676510 **Published:** JUL 29 2021

**eISSN:** 1664-302X

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**Title:** Subtypes, resistance and virulence platforms in extended-drug resistant *Acinetobacter baumannii* Romanian isolates

**Author(s):** Gheorghe, I (Gheorghe, Irina); Barbu, IC (Barbu, Ilda Czobor); Surleac, M (Surleac, Marius); Sarbu, I (Sarbu, Ionela); Popa, LI (Popa, Laura Ioana); Paraschiv, S (Paraschiv, Simona); Feng, Y (Feng, Yu); Lazar, V (Lazar, Veronica); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)\***; Otelea, D (Otelea, Dan); Zong, ZY (Zong Zhiyong)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article**

**Number:** 13288 **DOI:** 10.1038/s41598-021-92590-5 **Published:** JUN 24 2021

**ISSN:** 2045-2322

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**Title:** Chemical Composition, Antipathogenic and Cytotoxic Activity of the Essential Oil Extracted from *Amorpha fruticosa* Fruits

**Author(s):** Marinas, IC (Marinas, Ioana Cristina); Oprea, E (Oprea, Eliza); Buleandra, M (Buleandra, Mihaela); Badea, IA (Badea, Irinel Adriana); Tihauan, BM (Tihauan, Bianca Maria); Marutescu, L (Marutescu, Luminita); Angheloiu, M (Angheloiu, Marin); Matei, E (Matei, Elena); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

**Source:** MOLECULES Volume: 26 Issue: 11 Article Number: 3146 DOI: 10.3390/molecules26113146 Published: JUN 2021

**eISSN:** 1420-3049

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**Title:** Antibacterial composite coatings of MgB<sub>2</sub> powders embedded in PVP matrix

**Author(s):** Badica, P (Badica, P.); Batalu, ND (Batalu, N. D.); Burdusel, M (Burdusel, M.); Grigorescu, MA (Grigorescu, M. A.); Aldica, G (Aldica, G.); Enculescu, M (Enculescu, M.); Pircalabioru, GG (Pircalabioru, G. Gradisteanu); Popa, M (Popa, M.); Marutescu, LG (Marutescu, L. G.); Dumitriu, BG (Dumitriu, B. G.); Olariu, L (Olariu, L.); Bicu, A (Bicu, A.); Purcareanu, B (Purcareanu, B.); Operti, L (Operti, L.); Bonino, V (Bonino, V); Agostino, A (Agostino, A.); Truccato, M (Truccato, M.); **Chifiriuc, MC (Chifiriuc, M. C.)**

**Source:** SCIENTIFIC REPORTS Volume: 11 Issue: 1 Article Number: 9591 DOI: 10.1038/s41598-021-88885-2 Published: MAY 5 2021

**ISSN:** 2045-2322

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**Title:** Preparation of Porous Hydroxyapatite Using Cetyl Trimethyl Ammonium Bromide as Surfactant for the Removal of Lead Ions from Aquatic Solutions

**Author(s):** Predoi, SA (Predoi, Silviu-Adrian); Ciobanu, CS (Ciobanu, Carmen Steluta); Motelica-Heino, M (Motelica-Heino, Mikael); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Badea, ML (Badea, Monica Luminita); Iconaru, SL (Iconaru, Simona Liliana)

**Source:** POLYMERS Volume: 13 Issue: 10 Article Number: 1617 DOI: 10.3390/polym13101617 Published: MAY 2021

**eISSN:** 2073-4360

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**Title:** Present and Future Perspectives on Therapeutic Options for Carbapenemase-Producing Enterobacterales Infections

**Author(s):** Vrancianu, CO (Vrancianu, Corneliu Ovidiu); Dobre, EG (Dobre, Elena Georgiana); Gheorghe, I (Gheorghe, Irina); Barbu, I (Barbu, Ilda); Cristian, RE (Cristian, Roxana Elena); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

**Source:** MICROORGANISMS Volume: 9 Issue: 4 Article Number: 730 DOI: 10.3390/microorganisms9040730 Published: APR 2021

**eISSN:** 2076-2607

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**Title:** Dysbiosis in the Development of Type I Diabetes and Associated Complications: From Mechanisms to Targeted Gut Microbes Manipulation Therapies

**Author(s):** Pircalabioru, GG (Gradisteanu Pircalabioru, Gratiela); Corcionivoschi, N (Corcionivoschi, Nicolae); Gundogdu, O (Gundogdu, Ozan); **Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**; Marutescu, LG (Marutescu, Luminita Gabriela); Ispas, B (Ispas, Bogdan); Savu, O (Savu, Octavian)

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 22 Issue: 5 Article

**Number:** 2763 DOI: 10.3390/ijms22052763 Published: MAR 2021

**eISSN:** 1422-0067

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**Title:** Multi-Level Evaluation of UV Action upon Vitamin D Enhanced, Silver Doped Hydroxyapatite Thin Films Deposited on Titanium Substrate

**Author(s):** Negrila, CC (Negrila, Catalin Constantin); Predoi, D (Predoi, Daniela); Ghita, RV (Ghita, Rodica V.); Iconaru, SL (Iconaru, Simona Liliana); Ciobanu, SC (Ciobanu, Steluta Carmen); Manea, M (Manea, Mirela); Badea, ML (Badea, Monica Luminita); Costescu, A (Costescu, Adrian); Trusca, R (Trusca, Roxana); Predoi, G (Predoi, Gabriel); Stanciu, GA (Stanciu, George A.); Hristu, R (Hristu, Radu); Dragu, LD (Dragu, Laura Denisa); Bleotu, C (Bleotu, Coralia); Groza, A (Groza, Andreea); Marinas, IC (Marinas, Ioana Cristina); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**

**Source:** COATINGS **Volume:** 11 **Issue:** 2 **Article**

**Number:** 120 **DOI:** 10.3390/coatings11020120 **Published:** FEB 2021

**eISSN:** 2079-6412

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**Title:** Bacteriocins in the Era of Antibiotic Resistance: Rising to the Challenge

**Author(s):** Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Popa, LI (Popa, Laura Ioana); Marutescu, L (Marutescu, Luminita); Gheorghe, I (Gheorghe, Irina); Popa, M (Popa, Marcela); Barbu, IC (Barbu, Ilda Czobor); Cristescu, R (Cristescu, Rodica); **Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**

**Source:** PHARMACEUTICS **Volume:** 13 **Issue:** 2 **Article**

**Number:** 196 **DOI:** 10.3390/pharmaceutics13020196 **Published:** FEB 2021

**eISSN:** 1999-4923

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**Title:** Insight on Ni(II) and Cu(II) complexes of biguanide derivatives developed as effective antimicrobial and antitumour agents

**Author(s):** Badea, M (Badea, Mihaela); Grecu, MN (Grecu, Maria Nicoleta); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Bleotu, C (Bleotu, Coralia); Popa, M (Popa, Marcela); Iorgulescu, EE (Iorgulescu, Emilia Elena); Avram, S (Avram, Speranta); Uivarosi, V (Uivarosi, Valentina); Munteanu, AC (Munteanu, Alexandra-Cristina); Ghica, D (Ghica, Daniela); Olar, R (Olar, Rodica)

**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 35 **Issue:** 4 **Article**

**Number:** e6155 **DOI:** 10.1002/aoc.6155 **Early Access Date:** JAN 2021 **Published:** APR 2021

**ISSN:** 0268-2605

**eISSN:** 1099-0739

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**Title:** In Vitro Evaluation of MgB<sub>2</sub> Powders as Novel Tools to Fight Fungal Biodeterioration of Heritage Buildings and Objects

**Author(s):** Gheorghe, I; Avram, I; Corbu, VM; Marutescu, L; Popa, M; Balotescu, I; Blajan, I; Mateescu, V; Zaharia, D; Dumbrava, AS; Zetu, OE; Pecete, I; Cristea, VC; Batalu, D; Grigoroscuta, MA; Burdusel, M; Aldica, GV; Badica, P; Datcu, AD; Ianovici, N; Bleotu, C; Lazar, V; Ditu, LM;

**Chifiriuc, MC**

**Source:** FRONTIERS IN MATERIALS **Volume:** 7 **Article Number:** 601059

**DOI:** 10.3389/fmats.2020.601059 **Published:** JAN 13 2021

**ISSN:** 2296-8016

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Multidrug Resistant *Klebsiella pneumoniae* ST101 Clone Survival Chain From Inpatients to Hospital Effluent After Chlorine Treatment

**Author(s):** Popa, LI; Gheorghe, I; Barbu, IC; Surleac, M; Paraschiv, S; Marutescu, L; Popa, M; Pircalabioru, GG; Talapan, D; Nita, M; Streinu-Cercel, A; Streinu-Cercel, A; Otelea, D; **Chifiriuc, MC**

**Source:** FRONTIERS IN MICROBIOLOGY **Volume:** 11 **Article Number:** 610296

**DOI:** 10.3389/fmicb.2020.610296 **Published:** JAN 11 2021

**ISSN:** 1664-302X

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Valorization of *Gleditsia triacanthos* Invasive Plant Cellulose Microfibers and Phenolic Compounds

for Obtaining Multi-Functional Wound Dressings with Antimicrobial and Antioxidant Properties

**Author(s):** Marinas, IC; Oprea, E; Geana, EI; Tutunaru, O; Pircalabioru, GG; Zgura, I; **Chifiriuc, MC**

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 22 **Issue:** 1

**Article Number:** 33 **DOI:** 10.3390/ijms22010033 **Published:** JAN 2021

**eISSN:** 1422-0067

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Laser-Irradiated Chlorpromazine as a Potent Anti-Biofilm Agent for Coating of Biomedical Devices

**Author(s):** Nistorescu, S; Pircalabioru, GG; Udrea, AM; Simon, A; Pascu, ML; **Chifiriuc, MC**

**Source:** COATINGS **Volume:** 10 **Issue:** 12 **Article Number:** 1230

**DOI:** 10.3390/coatings10121230 **Published:** DEC 2020

**eISSN:** 2079-6412

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Emerging Strategies to Combat beta-Lactamase Producing ESKAPE Pathogens

**Author(s):** Vrancianu, CO; Gheorghe, I; Dobre, EG; Barbu, IC; Cristian, RE; Popa, M; Lee, SH; Limban, C; Vlad, IM; **Chifiriuc, MC**

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 21 **Issue:** 22

**Article Number:** 8527 **DOI:** 10.3390/ijms21228527 **Published:** NOV 2020

**eISSN:** 1422-0067

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Anti-biofilm Fe<sub>3</sub>O<sub>4</sub>@C-18-[1,3,4]thiadiazolo[3,2-a]pyrimidin-4-ium-2-thiolate Derivative Core-shell Nanocoatings

**Author(s):** Olar, R; Badea, M; Maxim, C; Grumezescu, AM; Bleotu, C; Marutescu, L; **Chifiriuc, MC**

**Source:** MATERIALS **Volume:** 13 **Issue:** 20 **Article Number:** 4640

**DOI:** 10.3390/ma13204640 **Published:** OCT 2020

**eISSN:** 1996-1944

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SARS-CoV-2: From Structure to Pathology, Host Immune Response and Therapeutic Management

**Author(s):** Mihaescu, G; \***Chifiriuc, MC**; Iliescu, C; Vrancianu, CO; Ditu, LM; Marutescu, LG; Grigore, R; Bertesteanu, S; Constantin, M; Pircalabioru, GG

**Source:** MICROORGANISMS **Volume:** 8 **Issue:** 10 **Article Number:** 1468

**DOI:** 10.3390/microorganisms8101468 **Published:** OCT 2020

**eISSN:** 2076-2607

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Rapid Detection and Antibiotic Susceptibility of Uropathogenic Escherichia coli by Flow Cytometry

**Author(s):** Velican, AM; Marutescu, L; Kamerzan, C; Cristea, VC; Banu, O; Borcan, E; **Chifiriuc, MC**

**Source:** MICROORGANISMS **Volume:** 8 **Issue:** 8 **Article Number:** 1233

**DOI:** 10.3390/microorganisms8081233 **Published:** AUG 2020

**eISSN:** 2076-2607

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Evolution of Inflammatory and Oxidative Stress Markers in Romanian Obese Male Patients with Type 2 Diabetes Mellitus after Laparoscopic Sleeve Gastrectomy: One Year Follow-Up

**Author(s):** Picu, A; Petcu, L; Stefan, DS; Pircalabioru, GG; Mitu, M; Bajko, D; Lixandru, D; Guja, C; Savu, O; Stoian, AP; Constantin, A; Smeu, B; Copăescu, C; **Chifiriuc, MC**; Ionica, E; Ionescu-Tirgoviste, C

**Source:** METABOLITES **Volume:** 10 **Issue:** 8 **Article Number:** 308

**DOI:** 10.3390/metabo10080308 **Published:** AUG 2020

**eISSN:** 2218-1989

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Novel hybrid materials based on heteroleptic Ru(III) complexes immobilized on SBA-15 mesoporous silica as highly potent antimicrobial and cytotoxic agents

**Author(s):** Marinescu, G; Culita, DC; Romanitan, C; Somacescu, S; Ene, CD; Marinescu, V; Negreanu, DG; Maxim, C; Popa, M; Marutescu, L; Stan, M; **Chifiriuc, C**

**Source:** APPLIED SURFACE SCIENCE **Volume:** 520 **Article Number:** 146379

**DOI:** 10.1016/j.apsusc.2020.146379 **Published:** AUG 1 2020

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Biocides role in the selection and dissemination of resistant *Acinetobacter baumannii* clones

**Author(s):** Vrancianu, CO; Pelcaru, CF; Alistar, A; Gheorghe, I; Marutescu, L; Popa, M; Gradisteanu, G; **Chifiriuc, MC**

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 25 **Issue:** 4 **Pages:** 1823-1831

**DOI:** 10.25083/rbl/25.4/1823.1831 **Published:** JUL-AUG 2020

**ISSN:** 1224-5984

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Antibiotic Resistance Profiles, Molecular Mechanisms and Innovative Treatment Strategies of *Acinetobacter baumannii*

**Author(s):** Vrancianu, CO; Gheorghe, I; Czobor, IB; **Chifiriuc, MC**

**Source:** MICROORGANISMS **Volume:** 8 **Issue:** 6 **Article Number:** 935

**DOI:** 10.3390/microorganisms8060935 **Published:** JUN 2020

**eISSN:** 2076-2607

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Targeting Plasmids to Limit Acquisition and Transmission of Antimicrobial Resistance

**Author(s):** Vrancianu, CO; Popa, LI; Bleotu, C; **Chifiriuc, MC**

**Source:** FRONTIERS IN MICROBIOLOGY **Volume:** 11 **Article Number:** 761

**DOI:** 10.3389/fmicb.2020.00761 **Published:** MAY 6 2020

**ISSN:** 1664-302X

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Nanoparticulate drug-delivery systems for fighting microbial biofilms: from bench to bedside

**Author(s):** Pircalabioru, GG; **Chifiriuc, MC**

**Source:** FUTURE MICROBIOLOGY **Volume:** 15 **Issue:** 8 **Pages:** 679-698

**DOI:** 10.2217/fmb-2019-0251 **Published:** MAY 2020

**ISSN:** 1746-0913

**eISSN:** 1746-0921

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New Substituted Benzoylthiourea Derivatives: From Design to Antimicrobial Applications

**Author(s):** Limban, C; \***Chifiriuc, MC**; Caproiu, MT; Dumitrascu, F; Ferbinteanu, M; Pintilie, L; Stefaniu, A; Vlad, IM; Bleotu, C; Marutescu, LG; Nuta, DC

**Source:** MOLECULES **Volume:** 25 **Issue:** 7 **Article Number:** 1478

**DOI:** 10.3390/molecules25071478 **Published:** APR 2020

**eISSN:** 1420-3049

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Whole genome sequencing snapshot of multi-drug resistant *Klebsiella pneumoniae* strains from hospitals and receiving wastewater treatment plants in Southern Romania

**Author(s):** Surleac, M; Barbu, IC; Paraschiv, S; Popa, LI; Gheorghe, I; Marutescu, L; Popa, M; Sarbu, I; Talapan, D; Nita, M; Iancu, AV; Arbune, M; Manole, A; Nicolescu, S; Sandulescu, O; Streinu-Cercel, A; Otelea, D; **Chifiriuc, MC**

**Source:** PLOS ONE **Volume:** 15 **Issue:** 1 **Article Number:** e0228079

**DOI:** 10.1371/journal.pone.0228079 **Published:** JAN 30 2020

**ISSN:** 1932-6203

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Potential Therapeutic Approaches to Alzheimer's Disease By Bioinformatics, Cheminformatics And Predicted Adme-Tox Tools

**Author(s):** Avram, S; Mernea, M; Limban, C; Borcan, F; **Chifiriuc, C**

**Source:** CURRENT NEUROPHARMACOLOGY **Volume:** 18 **Issue:** 8 **Pages:** 696-719

**DOI:** 10.2174/1570159X18666191230120053 **Published:** 2020

**ISSN:** 1570-159X

**eISSN:** 1875-6190

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BIOEVALUATION OF THE ANTIMICROBIAL AND ANTI-PROLIFERATIVE POTENTIAL OF SOME DERIVATIVES OF 3,5-DINITRO-4-METHOXYAMINO-BENZOIC ACID

**Author(s):** Zarafu, I; Patrascu, B; Marutescu, L; Bleotu, C; Limban, C; Tatibouet, A; \***Chifiriuc, MC**; Nuta, DC; Ionita, P

**Source:** FARMACIA **Volume:** 68 **Issue:** 1 **Pages:** 8-14

**DOI:** 10.31925/farmacia.2020.1.2 **Published:** JAN-FEB 2020

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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Thin coatings based on ZnO@C-18-usnic acid nanoparticles prepared by MAPLE inhibit the development of Salmonella enterica early biofilm growth

**Author(s):** Stan, MS; Constanda, S; Grumezescu, V; Andronescu, E; Ene, AM; Holban, AM; Vasile, BS; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Socol, G; Grumezescu, AM; Dinischiotu, A; Lazar, V; **Chifiriuc, MC**

**Source:** APPLIED SURFACE SCIENCE **Volume:** 374 **Pages:** 318-325

**DOI:** 10.1016/j.apsusc.2015.12.063 **Published:** JUN 30 2016

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Identification of fungal strains isolated from buildings of cultural importance in Romania and antagonistic relationships amongst them

**Author(s):** Sirghi, AC; Gheorghe, I; Sarbu, I; Marutescu, L; Stoian, G; Zong, ZY; **Chifiriuc, MC**

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 6 **Pages:** 1008-1014

**DOI:** 10.25083/rbl/24.6/1008.1014 **Published:** NOV-DEC 2019

**ISSN:** 1224-5984

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Resistance and Virulence Features in Carbapenem-resistant Acinetobacter baumannii Community Acquired and Nosocomial Isolates in Romania

**Author(s):** Gheorghe, I; Cristea, VC; Marutescu, L; Popa, M; Murariu, C; Trusca, BS; Borcan, E; Ghita, MC; Lazar, V; **Chifiriuc, MC**

**Source:** REVISTA DE CHIMIE **Volume:** 70 **Issue:** 10 **Pages:** 3502-3507 **Published:** OCT 2019

**ISSN:** 0034-7752

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The development of an analysis protocol based on flow cytometry for rapid detection of uropathogenic E. coli in artificially contaminated urine samples

**Author(s):** Velican, AM; Kamerzan, C; Marutescu, L; Lambert, C; **Chifiriuc, MC**

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 4 **Pages:** 563-570

**DOI:** 10.25083/rbl/24.4/563.570 **Published:** JUL-AUG 2019

**ISSN:** 1224-5984

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ANTIMICROBIAL ASSAY OF A CAPSAICIN - alpha-CYCLODEXTRIN INCLUSION COMPLEX AGAINST PLANKTONIC AND ADHERENT CELLS

**Author(s):** Ciulu-Costinescu, F; Podgoreanu, P; Delcaru, C; Simionescu, A; Georgescu, EF; Bostan, M; **Chifiriuc, MC**

**Source:** FARMACIA **Volume:** 67 **Issue:** 3 **Pages:** 496-503

**DOI:** 10.31925/farmacia.2019.3.18 **Published:** MAY-JUN 2019

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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Covalent coupling of tuberculostatic agents and graphene oxide: A promising approach for enhancing and extending their antimicrobial applications

**Author(s):** Tudos, M; Anghel, EM; Culita, DC; Somacescu, S; Calderon-Moreno, J; Tecuceanu, V; Dumitrascu, FD; Dracea, O; Popa, M; Marutescu, L; Bleotu, C; Curutiu, C; **Chifiriuc, MC**

**Source:** APPLIED SURFACE SCIENCE **Volume:** 471 **Pages:** 553-565

**DOI:** 10.1016/j.apsusc.2018.11.242 **Published:** MAR 31 2019

**ISSN:** 0169-4332

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Gut Microbiota, Host Organism, and Diet Trialogue in Diabetes and Obesity

**Author(s):** Lazar, V; Ditu, LM; Pircalabioru, GG; Picu, A; Petcu, L; Cucu, N;

**Chifiriuc, MC**

**Source:** FRONTIERS IN NUTRITION **Volume:** 6 **Article Number:** 21

**DOI:** 10.3389/fnut.2019.00021 **Published:** MAR 13 2019

**ISSN:** 2296-861X

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**Author(s):** Silea, C; Cucu, IA; Zarnescu, O; Stoian, AP; Motofei, IG; Bratu, OG; Pircalabioru, GG;

**Chifiriuc, MC**

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 1 **Pages:** 82-90

**DOI:** 10.25083/rbl/24.1/82.90 **Published:** JAN-FEB 2019

**ISSN:** 1224-5984

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Phenotypic and genotypic evaluation of adherence and biofilm development in *Candida albicans* respiratory tract isolates from hospitalized patients

**Author(s):** Sadik, O; Ditu, LM; Gheorghe, I; Holban, AM; Curutiu, C; Parcalabioru, GG; Avram, I; Banu, O; Al-mandawy, O; Alkurjia, DA; **Chifiriuc, MC**

**Source:** REVISTA ROMANA DE MEDICINA DE LABORATOR **Volume:** 27 **Issue:** 1 **Pages:** 73-83

**DOI:** 10.2478/rrlm-2019-0007 **Published:** JAN 2019

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Functional properties improvement of Ag-ZnO thin films using Inconel 600 interlayer produced by electron beam evaporation technique

**Author(s):** Lungu, MV; Sobetskii, A; Sobetskii, AA; Patroi, D; Prioteasa, P; Ion, I; Negriila, CC;

**Chifiriuc, MC**

**Source:** THIN SOLID FILMS **Volume:** 667 **Pages:** 76-87

**DOI:** 10.1016/j.tsf.2018.09.055 **Published:** DEC 1 2018

**ISSN:** 0040-6090

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**Author(s):** Mitache, MM; Banu, O; Borcan, E; Gheorghe, I; Marutescu, L; Popa, M; Predescu, M; Rusu, E; Nemes, R; **Chifiriuc, MC**

**Source:** REVISTA DE CHIMIE **Volume:** 69 **Issue:** 11 **Pages:** 4026-4032 **Published:** NOV 2018

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Synthesis and Characterization of Chitosan-Coated Cobalt Ferrite Nanoparticles and Their Antimicrobial Activity

**Author(s):** Gingasu, D; Mindru, I; Patron, L; Ianculescu, A; Vasile, E; Marinescu, G; Preda, S (Preda, Silviu); Diamandescu, L; Oprea, O; Popa, M; Saviuc, C; **Chifiriuc, MC**

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 28 **Issue:** 5 **Pages:** 1932-1941 **DOI:** 10.1007/s10904-018-0870-3

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**Author(s):** Delcaru, C; Alexandru, I; Podgoreanu, P; Cristea, VC; Bleotu, C; **Chifiriuc, MC**; Bezirtzoglou, E; Lazar, V

**Source:** ANAEROBE **Volume:** 39 **Pages:** 39-44

**DOI:** 10.1016/j.anaerobe.2016.02.010 **Published:** JUN 2016

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**eISSN:** 1095-8274

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Antifungal bionanocomposites based on poly(lactic acid) and silver nanoparticles for potential medical devices

**Author(s):** Stoica, P; Rapa, M; \***Chifiriuc, MC**; Lungu, M; Tatia, R; Nita, MI; Grumezescu, AM; Bertesteanu, S; Bezirtzoglou, E; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 4

**Pages:** 10696-10707 **Published:** JUL-AUG 2015

**ISSN:** 1224-5984

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Aspects of Gut Microbiota and Immune System Interactions in Infectious Diseases, Immunopathology, and Cancer

**Author(s):** Lazar, V; Ditu, LM; Pircalabioru, GG); Gheorghe, I; Curutiu, C; Holban, AM; Picu, A; Petcu, L; **Chifiriuc, MC**

**Source:** FRONTIERS IN IMMUNOLOGY **Volume:** 9 **Article Number:** 1830

**DOI:** 10.3389/fimmu.2018.01830 **Published:** AUG 15 2018

**ISSN:** 1664-3224

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**Author(s):** Mitache, MM; Curutiu, C; Gheorghe, I; Lazar, V; Bucur, M; Bleotu, C; Cochior, D; Rusu, E; **Chifiriuc, CM**

**Source:** REVISTA DE CHIMIE **Volume:** 69 **Issue:** 1 **Pages:** 116-120 **Published:** JAN 2018

**Accession Number:** WOS:000425369600023

**ISSN:** 0034-7752

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Novel Hybrid Formulations Based on Thiourea Derivatives and Core@Shell Fe<sub>3</sub>O<sub>4</sub>@C-18 Nanostructures for the Development of Antifungal Strategies

**Author(s):** Limban, C ; Missir, AV; Caproiu, MT; Grumezescu, AM; \***Chifiriuc, MC**; Bleotu, C; Marutescu, L; Papacocea, MT; Nuta, DC

**Source:** NANOMATERIALS **Volume:** 8 **Issue:** 1 **Article**

**Number:** 47 **DOI:** 10.3390/nano8010047

**Published:** JAN 2018

**ISSN:** 2079-4991

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Adherence and Biofilm Formation in Candida albicans Strains Isolated from Different Infection

Sites in Hospitalized Patients

**Author(s):** Sadik, O; Ditu, LM; Gheorghe, I; Pircalabioru, GG ; Bleotu, C ; Banu, O; Merezeanu, N; Lupu, AC; Lazar, V; **Chifiriuc, MC**

**Source:** REVISTA DE CHIMIE **Volume:** 68 **Issue:** 12 **Pages:** 2832-2835 **Published:** DEC 2017

**ISSN:** 0034-7752

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ANTIMICROBIAL ACTIVITY OF SOME NEW Ru(III) COMPLEXES WITH QUINOLONE DERIVATIVES

**Author(s):** Uivarosi, V; Olar, R; Badea, M; **Chifiriuc, MC**

**Source:** FARMACIA **Volume:** 65 **Issue:** 6 **Pages:** 972-977 **Published:** NOV-DEC 2017

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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Assessment of the anti-biofilm activity and biocompatibility of novel PE and PVC polymers

**Author(s):** Telcian, A; Hussien, MD; \***Chifiriuc, MC**; Bleotu, C; Holban, AM; Curutiu, C; Grosu, E; Ficai, A; Mihaescu, G; Grigore, R; Ditu, LM

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 5 **Pages:** 12997-13004 **Published:** SEP-OCT 2017

**ISSN:** 1224-5984

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Biochemical, Virulence and Resistance Features in Bacterial Strains Recovered from Hospital Surfaces after Decontamination with Quaternary Ammonium Compounds, Triclosan and Iodine Desinfectants

**Author(s):** Mitache, MM; Gheorghe, I; Totea, G; Bleotu, C; Curutiu, C; Cochior, D; Rusu, E; **Chifiriuc, MC**

**Source:** REVISTA DE CHIMIE **Volume:** 68 **Issue:** 5 **Pages:** 997-1001 **Published:** MAY 2017

**ISSN:** 0034-7752

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**Author(s):** Picu, A; Petcu, L; Stefan, S; Mitu, M; Lixandru, D; Ionescu-Tirgoviste, C; Pircalabioru, GG; Ciulu-Costinescu, F; Bubulica, MV; **Chifiriuc, MC**

**Source:** MOLECULES **Volume:** 22 **Issue:** 5 **Article Number:** 714

**DOI:** 10.3390/molecules22050714 **Published:** MAY 2017

**ISSN:** 1420-3049

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.Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS) reveals the anaerobic *Slakia exigua* as unique etiology of a dental abscess

**Author(s):** Pricop, R; Cristea, VC; Gheorghe, I ; Tatu, AL; Mihaescu, G; **Chifiriuc, MC**

**Source:** BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY **Volume:** 7 **Issue:** 2

**Pages:** 1995-1997 **Published:** APR 15 2017

**ISSN:** 2069-5837

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Urinary Tract Infections in Patients with Type 1 and Type 2 Diabetes: Etiology, Resistance to Antibacterial Chemicals and Virulence Features

**Author(s):** Mitache, MM; Curutiu, C; Rusu, E; Bahna, R; Ditu, M; Moldovan, H; Hancu, V; **Chifiriuc, MC**

**Source:** REVISTA DE CHIMIE **Volume:** 68 **Issue:** 3 **Pages:** 566-569 **Published:** MAR 2017

**ISSN:** 0034-7752

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Soft chemistry routes for the preparation of Ag-CoFe<sub>2</sub>O<sub>4</sub> nanocomposites

**Author(s):** Gingasu, D; Mindru, I; Patron, L; Marinescu, G; Preda, S; Calderon-Moreno, JM;

Osiceanu, P; Somacescu, S; Stanica, N; Popa, M; Saviuc, C; **Chifiriuc, MC**  
**Source:** CERAMICS INTERNATIONAL **Volume:** 43 **Issue:** 3 **Pages:** 3284-3291  
**DOI:** 10.1016/j.ceramint.2016.11.161 **Published:** FEB 15 2017  
**ISSN:** 0272-8842  
**eISSN:** 1873-3956

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Bioactive Wound Dressings for the Management of Chronic Wounds  
**Author(s):** Georgescu, M; \***Chifiriuc, MC**; Marutescu, L; Gheorghe, I; Lazar, V; Bolocan, A; Bertesteanu, S  
**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 21 **Issue:** 1 **Pages:** 53-63  
**DOI:** 10.2174/1385272820666160510171040 **Published:** 2017  
**ISSN:** 1385-2728  
**eISSN:** 1875-5348

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Development and Sequential Analysis of a New Multi-Agent, Anti-Acne Formulation Based on Plant-Derived Antimicrobial and Anti-Inflammatory Compounds  
**Author(s):** Saviuc, C; Ciubuca, B; Dinca, G; Bleotu, C; Drumea, V; \***Chifiriuc, MC**; Popa, M; Pircalabioru, GG; Marutescu, L; Lazar, V  
**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 18 **Issue:** 1 **Article**  
**Number:** 175 **DOI:** 10.3390/ijms18010175 **Published:** JAN 2017  
**ISSN:** 1422-0067

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Molecular characterization of virulence and resistance features in Staphylococcus aureus clinical strains isolated from cutaneous lesions in patients with drug adverse reactions  
**Author(s):** Gheorghe, I; Tatu, AL; Lupu, I; Thamer, O; Cotar, AI; Pircalabioru, GG; Popa, M; Cristea, VC; Lazar, V; **Chifiriuc, MC**  
**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 1 **Pages:** 12321-12327  
**Published:** JAN-FEB 2017  
**ISSN:** 1224-5984

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Phenotypic and Genetic Evaluation of the Influence of Pseudomonas aeruginosa Culture Fractions on the Human Mesenchymal Stem Cells Viability, Apoptotic Pathways and Cytokine Profile  
**Author(s):** Holban, AM; Bleotu, C; \***Chifiriuc, MC**; Lazar, V  
**Source:** CURRENT STEM CELL RESEARCH & THERAPY **Volume:** 12 **Issue:** 2 **Pages:** 175-180  
**DOI:** 10.2174/1574888X10666151026114817 **Published:** 2017  
**ISSN:** 1574-888X  
**eISSN:** 2212-3946

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Microbial Biofilms in Urinary Tract Infections and Prostatitis: Etiology, Pathogenicity, and Combating strategies  
**Author(s):** Delcaru, C; Alexandru, I ; Podgoreanu, P; Grosu, M; Stavropoulos, E; \***Chifiriuc, MC**; Lazar, V  
**Source:** PATHOGENS **Volume:** 5 **Issue:** 4 **Article**  
**Number:** 65 **DOI:** 10.3390/pathogens5040065 **Published:** DEC 2016  
**ISSN:** 2076-0817

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SYNTHESIS, CHARACTERIZATION AND EVALUATION OF THE ANTIMICROBIAL AND CYTOTOXIC ACTIVITY OF TWO NOVEL COMPLEXES OF Gd(III) WITH PIROXICAM AND MELOXICAM  
**Author(s):** Marinescu, G; Culita, DC; Patron, L; Stanica, N; Nita, S; Musuc, AM; Bleotu, C; Popa,

M; Kamerzan, C; **Chifiriuc, MC**

**Source:** REVUE ROUMAINE DE CHIMIE **Volume:** 61 **Issue:** 10 **Pages:** 779-786

**Published:** OCT 2016

**ISSN:** 0035-3930

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Investigation of optical, structural, morphological and antimicrobial properties of carboxymethyl cellulose capped Ag-ZnO nanocomposites prepared by chemical and mechanical methods

**Author(s):** Lungu, MV; Vasile, E; Lucaci, M; Patroi, D; Mihailescu, N; Grigore, F; Marinescu, V; Bratulescu, A; Mitrea, S; Sobetkii, A; Sobetkii, AA; Popa, M; **Chifiriuc, MC**

**Source:** MATERIALS CHARACTERIZATION **Volume:** 120 **Pages:** 69-81

**DOI:** 10.1016/j.matchar.2016.08.022 **Published:** OCT 2016

**ISSN:** 1044-5803

**eISSN:** 1873-4189

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Synthesis of nanocrystalline cobalt ferrite through soft chemistry methods: A green chemistry approach using sesame seed extract

**Author(s):** Gingasu, D; Mindru, I; Mocioiu, OC; Preda, S; Stanica, N; Patron, L; Ianculescu, A; Oprea, O; Nita, S; Paraschiv, I; Popa, M; Saviuc, C; Bleotu, C; **Chifiriuc, MC**

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 182 **Pages:** 219-230

**DOI:** 10.1016/j.matchemphys.2016.07.026 **Published:** OCT 1 2016

**ISSN:** 0254-0584

**eISSN:** 1879-3312

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Molecular characterization of resistance and virulence features in Staphylococcus aureus clinical strains isolated from cutaneous lesions in patients with drug adverse reactions

**Author(s):** Lupu, I; Gheorghe, I; Popa, M; Ion, A; Mihai, M; Lazar, V; **Chifiriuc, MC**

**Source:** FEBS JOURNAL Meeting Abstract: P04011-010 **Volume:** 283 **Special Issue:** SI

**Pages:** 148-148 **Supplement:** 1 **Published:** SEP 2016

**ISSN:** 1742-464X

**eISSN:** 1742-4658

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Multifunctional Silver Nanoparticles-Decorated Silica Functionalized with Retinoic Acid with Anti-Proliferative and Antimicrobial Properties

**Author(s):** Tudose, M; Culita, DC; Musuc, AM; Marinescu, G; Somacescu, S; Munteanu, C; Bleotu, C; **Chifiriuc, MC**

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 26 **Issue:** 5 **Pages:** 1043-1052 **DOI:** 10.1007/s10904-016-0407-6

**Published:** SEP 2016

**ISSN:** 1574-1443

**eISSN:** 1574-1451

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**Author(s):** Stoica, AO; Andronesu, E; Ghitulica, CD; Voicu, G; Grumezescu, AM; Popa, M; **Chifiriuc, MC**

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 510 **Issue:** 2

**Pages:** 430-438 **DOI:** 10.1016/j.ijpharm.2015.09.043 **Published:** AUG 30 2016

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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*Rosmarinus Officinalis* Essential Oil and Eucalyptol Act as Efflux Pumps Inhibitors and Increase Ciprofloxacin Efficiency against Pseudomonas Aeruginosa and Acinetobacter Baumannii MDR Strains

**Author(s):** Saviuc, C; Gheorghe, I; Coban, S; Drumea, V; \***Chifiriuc, MC**; Banu, O; Bezirtzoglou,

E; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 21 **Issue:** 4

**Pages:** 11782-11790 **Published:** JUL-AUG 2016

**ISSN:** 1224-5984

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Mesoporous silica coatings for cephalosporin active release at the bone-implant interface

**Author(s):** Radulescu, D; Voicu, G; Oprea, AE; Andronescu, E; Grumezescu, V; Holban, AM; Vasile, BS; Surdu, AV; Grumezescu, AM; Socol, G; Mogoanta, L; Mogosanu, GD; Balaure, PC; Radulescu, R; **Chifiriuc, MC**

**Source:** APPLIED SURFACE SCIENCE **Volume:** 374 **Pages:** 165-171

**DOI:** 10.1016/j.apsusc.2015.10.183 **Published:** JUN 30 2016

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Fabrication, Characterization, and Evaluation of Bionanocomposites Based on Natural Polymers and Antibiotics for Wound Healing Applications

**Author(s):** Radulescu, M; Holban, AM; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Savu, D; Popescu, RC; Fufa, O; Grumezescu, AM; Bezirtzoglou, E; Lazar, V; **Chifiriuc, MC**

**Source:** MOLECULES **Volume:** 21 **Issue:** 6 **Article Number:** 761

**DOI:** 10.3390/molecules21060761 **Published:** JUN 2016

**ISSN:** 1420-3049

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Antimicrobial Nanostructured Bioactive Coating Based on Fe<sub>3</sub>O<sub>4</sub> and Patchouli Oil for Wound Dressing

**Author(s):** Radulescu, M; Andronescu, E; Holban, AM; Vasile, BS; Iordache, F; Mogoanta, L; Mogosanu, GD; Grumezescu, AM; Georgescu, M; **Chifiriuc, MC**

**Source:** METALS **Volume:** 6 **Issue:** 5 **Article Number:** 103

**DOI:** 10.3390/met6050103 **Published:** MAY 2016

**eISSN:** 2075-4701

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Drosophotoxicology: An Emerging Research Area for Assessing Nanoparticles Interaction with Living Organisms

**Author(s):** **Chifiriuc, MC**; Ratiu, AC; Popa, M; Ecovoiu, AA

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 17 **Issue:** 2

**Article Number:** 36 **DOI:** 10.3390/ijms17020036 **Published:** FEB 2016

**eISSN:** 1422-0067

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Microbial Resistance to Natural Compounds: Challenges for Developing Novel Alternatives to Antibiotics

**Author(s):** Ciubuca, BM; Saviuc, CM; **\*Chifiriuc, MC**; Lazar, V

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 20 **Issue:** 28 **Pages:** 2983-2988

**DOI:** 10.2174/1385272820666160510165625 **Published:** 2016

**ISSN:** 1385-2728

**eISSN:** 1875-5348

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Virulence and resistance features of Pseudomonas aeruginosa strains isolated from chronic leg ulcers

**Author(s):** Georgescu, M; Gheorghe, I; Curutiu, C; Lazar, V; Bleotu, C; **Chifiriuc, MC**

**Source:** BMC INFECTIOUS DISEASES **Volume:** 16 **Article Number:** 92

**DOI:** 10.1186/s12879-016-1396-3 **Supplement:** 1 **Published:** 2016

**eISSN:** 1471-2334

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and Inflammatory Condition by Natural Products

**Author(s):** Lazar, V; Saviuc, CM; **Chifiriuc, MC**

**Source:** CURRENT PHARMACEUTICAL DESIGN **Volume:** 22 **Issue:** 2 **Pages:** 230-237

**DOI:** 10.2174/138161282202151221124307 **Published:** 2016

**ISSN:** 1381-6128

**eISSN:** 1873-4286

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**Author(s):** Stan, T; Marutescu, L; \***Chifiriuc, MC**; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 21 **Issue:** 1

**Pages:** 11166-11175 **Published:** JAN-FEB 2016

**ISSN:** 1224-5984

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Green Synthesis Methods of CoFe<sub>2</sub>O<sub>4</sub> and Ag-CoFe<sub>2</sub>O<sub>4</sub> Nanoparticles Using Hibiscus Extracts and Their Antimicrobial Potential

**Author(s):** Gingasu, D; Mindru, I; Patron, L; Calderon-Moreno, JM; Mocioiu, OC; Preda, S; Stanica, N; Nita, S; Dobre, N; Popa, M; Gradisteanu, G; **Chifiriuc, MC**

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2016 **Article Number:** 2106756

**DOI:** 10.1155/2016/2106756 **Published:** 2016

**ISSN:** 1687-4110

**eISSN:** 1687-4129

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Molecular analysis of antibiotic resistance and virulence features of Staphylococcus sp. strains isolated from patients with chronic leg ulcers

**Author(s):** Georgescu, M; Gheorghe, I; Ghiatau, CF; Dascalu, L; **Chifiriuc, CM**

**Source:** JOURNAL OF INVESTIGATIVE DERMATOLOGY **Meeting Abstract:** 368

**Volume:** 135 **Pages:** S63-S63 **Supplement:** 2 **Published:** SEP 2015

**ISSN:** 0022-202X

**eISSN:** 1523-1747

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Antibacterial Activity Evaluation of Silver Nanoparticles Entrapped in Silica Matrix Functionalized with Antibiotics

**Author(s):** Tudose, M; Culita, DC; Munteanu, C; Pandele, J; Hristea, E; Ionita, P; Zarafu, I; **Chifiriuc, MC**

**Source:** JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS **Volume:** 25 **Issue:** 4 **Pages:** 869-878

**DOI:** 10.1007/s10904-015-0176-7 **Published:** JUL 2015

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**eISSN:** 1574-1451

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MAPLE fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties

**Author(s):** Grumezescu, V; Andronescu, E; Holban, AM; Mogoanta, L; Mogosanu, GD; Grumezescu, AM; Stanculescu, A; Socol, G; Iordache, F; Maniu, H; **Chifiriuc, MC**

**Source:** APPLIED SURFACE SCIENCE **Volume:** 336 **Pages:** 188-195

**DOI:** 10.1016/j.apsusc.2014.10.177 **Published:** MAY 1 2015

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Fabrication, characterization and bioevaluation of novel antimicrobial composites based on polycaprolactone, chitosan and essential oils

**Author(s):** Stoica, P; \***Chifiriuc, MC**; Rapa, M; Bleotu, C; Lungu, L; Vlad, G; Grigore, R;

Bertesteanu, S; Stavropoulou, E; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 3

**Pages:** 10521-10535 **Published:** MAY-JUN 2015

**ISSN:** 1224-5984

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SYNTHESIS AND BIOEVALUATION OF MAGNETIC PARTICLES BASED ON CHITOSAN AND PHYTOCOMPONENTS FROM *Eugenia carryophyllata* AQUEOUS EXTRACT

**Author(s):** Anghel, I; Grumezescu, AM; Anghel, AG; Saviuc, C; Croitoru, C; Mihaiescu, DE;

**Chifiriuc, CM**

**Source:** ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL

**Volume:** 14 **Issue:** 4 **Pages:** 855-861

**DOI:** 10.30638/eemj.2015.096 **Published:** APR 2015

**ISSN:** 1582-9596

**eISSN:** 1843-3707

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Silver nanoparticles embedded into silica functionalized with vitamins as biological active materials

**Author(s):** Tudose, M; Culita, DC; Ionita, P; **Chifiriuc, MC**

**Source:** CERAMICS INTERNATIONAL

**Volume** 41, **Issue** 3, Part B, **Pages** 4460-4467

**Published:** APR 2015 **DOI.org/10.1016/j.ceramint.2014.11.138**

**ISSN:** 0272-8842

**eISSN:** 1873-3956

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Microbial Biofilms: Impact on the Pathogenesis of Periodontitis, Cystic Fibrosis, Chronic Wounds and Medical Device-Related Infections

**Author(s):** Mihai, MM; Holban, AM; Giurcaneanu, C; Popa, LG; Oanea, RM; Lazar, V; **Chifiriuc, MC**; Popa, M; Popa, MI

**Source:** CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 16

**Pages:** 1552-1576 **Published:** 2015

**ISSN:** 1568-0266

**eISSN:** 1873-5294

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Metallic-Based Micro and Nanostructures with Antimicrobial Activity

**Author(s):** Pop, CS; Hussien, MD; Popa, M; Mares, A; Grumezescu, AM; Grigore, R; Lazar, V; \***Chifiriuc, MC**; Sakizlian, M; Bezirtzoglou, E; Bertesteanu, S

**Source:** CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 16

**Pages:** 1577-1582 **Published:** 2015

**ISSN:** 1568-0266

**eISSN:** 1873-5294

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Recognition and Impact of Host-derived Molecules on Bacterial Cell-to-cell Signalling Pathways

**Author(s):** Holban, AM; \***Chifiriuc, MC**; Lazar, V

**Source:** MEDICINAL CHEMISTRY **Volume:** 11 **Issue:** 7 **Pages:** 610-617

**DOI:** 10.2174/1573406411666150305113146 **Published:** 2015

**ISSN:** 1573-4064

**eISSN:** 1875-6638

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SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL ACTIVITY OF CU(II), NI(II), CO(II) AND MN(II) BINUCLEAR COMPLEXES DERIVED FROM 1,3-BIS(2'-FORMYLPHENYL)-1,3-DIOXAPROPANE AND L-TRYPTOPHAN

**Author(s):** Ciolan, F; Patron, L; Marutescu, L; **Chifiriuc, MC**

**Source:** FARMACIA **Volume:** 63 **Issue:** 1 **Pages:** 86-92 **Published:** JAN-FEB 2015

**ISSN:** 0014-8237

eISSN: 2065-0019

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**Author(s):** Bleotu, C; \***Chifiriuc, MC**; Pircalabioru, G ; Bertesteanu, SG; Grigore, R ; Ruta, SM; Banu, O; Lazar, V

**Source:** VIRULENCE **Volume:** 6 **Issue:** 1 **Pages:** 101-101

**DOI:** 10.1080/21505594.2015.1012469 **Published:** JAN 2015

**ISSN:** 2150-5594

**eISSN:** 2150-5608

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Nanostructured Bioactive Polymers Used in Food-Packaging

**Author(s):** Mateescu, AL; Dimov, TV; Grumezescu, AM; Gestal, MC; **Chifiriuc, MC**

**Source:** CURRENT PHARMACEUTICAL

BIOTECHNOLOGY **Volume:** 16 **Issue:** 2

**Pages:** 121-127 **DOI:** 10.2174/1389201015666141202110919 **Published:** 2015

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**eISSN:** 1873-4316

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Essential Oils with Microbicidal and Antibiofilm Activity

**Author(s):** Saviuc, CM; Drumea, V; Olariu, L; \***Chifiriuc, MC**; Bezirtzoglou, E; Lazar, V

**Source:** CURRENT PHARMACEUTICAL

BIOTECHNOLOGY **Volume:** 16 **Issue:** 2

**Pages:** 137-151 **DOI:** 10.2174/138920101602150112151549 **Published:** 2015

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**eISSN:** 1873-4316

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Nanobioactive Structures for Drug Targeting and Delivery

**Author(s):** **Chifiriuc, CM**; Grumezescu, AM

**Source:** CURRENT TOPICS IN MEDICINAL

CHEMISTRY **Volume:** 15 **Issue:** 15

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1423 **DOI:** 10.2174/1568026615666150414112350 **Published:** 2015

**ISSN:** 1568-0266

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Micro and Nanoscale Materials for Boosting the Antimicrobial Fight

**Author(s):** **Chifiriuc, CM**; Grumezescu, AM

**Source:** CURRENT TOPICS IN MEDICINAL

CHEMISTRY **Volume:** 15 **Issue:** 16

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1551 **DOI:** 10.2174/1568026615666150414112925 **Published:** 2015

**ISSN:** 1568-0266

**eISSN:** 1873-4294

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Insights on Metal Based Dental Implants and their Interaction with the Surrounding Tissues

**Author(s):** Popa, M; Hussien, MD; Cirstea, A; Grigore, R; Lazar, V; Bezirtzoglou, E; \***Chifiriuc, MC**; Sakizlian, M; Stavropoulou, E; Bertesteanu, S

**Source:** CURRENT TOPICS IN MEDICINAL CHEMISTRY **Volume:** 15 **Issue:** 16

**Pages:** 1614-1621 **Published:** 2015

**ISSN:** 1568-0266



Efficiency of Vanilla, Patchouli and Ylang Ylang Essential Oils Stabilized by Iron Oxide@C-14 Nanostructures against Bacterial Adherence and Biofilms Formed by Staphylococcus aureus and Klebsiella pneumoniae Clinical Strains

**Author(s):** Bilcu, M; Grumezescu, AM; Oprea, AE; Popescu, RC; Mogosanu, GD; Hristu, R; Stanciu, GA; Mihailescu, DF; Lazar, V; Bezirtzoglou, E; **Chifiriuc, MC**

**Source:** MOLECULES **Volume:** 19 **Issue:** 11 **Pages:** 17943-17956

**DOI:** 10.3390/molecules191117943 **Published:** NOV 2014

**ISSN:** 1420-3049

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ESBL genes in Multi Drug Resistant Gram negative strains isolated in a one year survey from an Intensive Care Unit in Bucharest, Romania

**Author(s):** Czobor, I; Gheorghe, I; Banu, O; Velican, A; Lazar, V; Mihaescu, G; **Chifiriuc, MC**

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 19 **Issue:** 4 **Pages:** 9553-9560

**Published:** JUL-AUG 2014

**ISSN:** 1224-5984

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Antibiotic resistance of food-borne enterobacterial strains isolated in Bucharest, Romania

**Author(s):** Mateescu, AL; Mitache, MM; \***Chifiriuc, MC**; Dimov, TV

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 19 **Issue:** 3 **Pages:** 9409-9420

**Published:** JUN-JUL 2014

**ISSN:** 1224-5984

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Functionalized antibiofilm thin coatings based on PLA-PVA microspheres loaded with usnic acid natural compounds fabricated by MAPLE

**Author(s):** Grumezescu, V; Socol, G; Grumezescu, AM; Holban, AM; Fikai, A; Trusca, R; Bleotu, C; Balaure, PC; Cristescu, R; **Chifiriuc, MC**

**Source:** APPLIED SURFACE SCIENCE **Volume:** 302 **Pages:** 262-267

**DOI:** 10.1016/j.apsusc.2013.09.081 **Published:** MAY 30 2014

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Keratin-Based Biomaterials for Biomedical Applications

**Author(s):** Mogosanu, GD; Grumezescu, AM; **Chifiriuc, MC**

**Source:** CURRENT DRUG

TARGETS **Volume:** 15 **Issue:** 5 **Pages:** 518-530

**DOI:** 10.2174/1389450115666140307154143 **Published:** MAY 2014

**ISSN:** 1389-4501

**eISSN:** 1873-5592

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Polymicrobial wound infections: Pathophysiology and current therapeutic approaches

**Author(s):** Bertesteanu, S; Triaridis, S; Stankovic, M; Lazar, V; \***Chifiriuc, MC**; Vlad, M; Grigore, R

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 463 **Issue:** 2

**Pages:** 119-126 **DOI:** 10.1016/j.ijpharm.2013.12.012 **Published:** MAR 25 2014

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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New silica nanostructure for the improved delivery of topical antibiotics used in the treatment of staphylococcal cutaneous infections

**Author(s):** Grumezescu, AM; Ghitulica, CD; Voicu, G; Huang, KS; Yang, CH; Fikai, A; Vasile, BS; Grumezescu, V; Bleotu, C; **Chifiriuc, MC**

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 463 **Issue:** 2

**Pages:** 170-176 **DOI:** 10.1016/j.ijpharm.2013.07.016 **Published:** MAR 25 2014

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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Role of Pseudomonas aeruginosa quorum sensing (QS) molecules on the viability and cytokine profile of human mesenchymal stem cells

**Author(s):** Holban, AM; Bleotu, C; \***Chifiriuc, MC**; Bezirtzoglou, E; Lazar, V

**Source:** VIRULENCE **Volume:** 5 **Issue:** 2 **Pages:** 303-310 **DOI:** 10.4161/viru.27571

**Published:** FEB 15 2014

**ISSN:** 2150-5594

**eISSN:** 2150-5608

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Contribution of Antimicrobial Peptides to the Development of New and Efficient Antimicrobial Strategies

**Author(s):** **Chifiriuc, MC**; Grumezescu, AM; Lazar, V; Bolocan, A; Triaridis, S; Grigore, R; Bertesteanu, S

**ISSN:** 1570-1646

**eISSN:** 1875-6247

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Extended-spectrum Beta-lactamase Production in Pseudomonas aeruginosa and Acinetobacter baumannii Strains: Epidemiology, Molecular Characterization and Novel Proteomics-based Diagnostic Tools

**Author(s):** Gheorghe, I; \***Chifiriuc, MC**; Cotar, AI; Lazar, V

**Source:** CURRENT PROTEOMICS **Volume:** 11 **Issue:** 2 **Pages:** 108-115

**DOI:** 10.2174/157016461102140917122103 **Published:** 2014

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**eISSN:** 1875-6247

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Class I and II Bacteriocins: Structure, Biosynthesis and Drug Delivery Systems for the Improvement of their Antimicrobial Activity

**Author(s):** Ditu, LM; \***Chifiriuc, MC**; Pelinescu, D; Avram, I; Pircalabioru, G; Mihaescu, G

**Source:** CURRENT PROTEOMICS **Volume:** 11 **Issue:** 2 **Pages:** 121-127

**DOI:** 10.2174/157016461102140917122421 **Published:** 2014

**ISSN:** 1570-1646

**eISSN:** 1875-6247

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Quorum Sensing Inhibitors from the Sea: Lessons from Marine Symbiotic Relationships

**Author(s):** **Chifiriuc, MC**; Grumezescu, AM; Lazar, V

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 18 **Issue:** 7 **Pages:** 823-839

**DOI:** 10.2174/138527281807140515150356 **Published:** 2014

**ISSN:** 1385-2728

**eISSN:** 1875-5348

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Carboxymethyl-cellulose/Fe<sub>3</sub>O<sub>4</sub> nanostructures for antimicrobial substances delivery

**Author(s):** Vlad, M; Andronescu, E; Grumezescu, AM; Fikai, A; Voicu, G; Bleotu, C; **Chifiriuc, MC**

**Source:** BIO-MEDICAL MATERIALS AND ENGINEERING **Volume:** 24 **Issue:** 3

**Pages:** 1639-1646 **DOI:** 10.3233/BME-140967 **Published:** 2014

**ISSN:** 0959-2989

**eISSN:** 1878-3619

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Biomedical Applications of Natural Polymers for Drug Delivery

**Author(s):** Chifiriuc, MC; Grumezescu, AM; Grumezescu, V; Bezirtzoglou, E; Lazar, V; Bolocan, A

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 18 **Issue:** 2 **Pages:** 152-164

**DOI:** 10.2174/138527281802140129104525 **Published:** JAN 2014

**ISSN:** 1385-2728

**eISSN:** 1875-5348

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Prevention of Microbial Biofilms - The Contribution of Micro and Nanostructured Materials

**Author(s):** Grumezescu, AM; Chifiriuc, CM

**Source:** CURRENT MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 29 **Pages:** 3311-3311

**DOI:** 10.2174/0929867321666140304101314 **Published:** 2014

**ISSN:** 0929-8673

**eISSN:** 1875-533X

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Biomedical Applications of Synthetic, Biodegradable Polymers for the Development of Anti-Infective Strategies

**Author(s):** Bertesteanu, S; \* Chifiriuc, MC; Grumezescu, AM; Printza, AG; Marie-Paule, T; Grumezescu, V; Mihaela, V; Lazar, V; Grigore, R

**Source:** CURRENT MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 29 **Pages:** 3383-3390

**DOI:** 10.2174/0929867321666140304104328 **Published:** 2014

**ISSN:** 0929-8673

**eISSN:** 1875-533X

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Silver-titanium dioxide nanocomposites as effective antimicrobial and antibiofilm agents

**Author(s):** Lungu, M; Gavrilu, S; Enescu, E; Ion, I; Bratulescu, A; Mihaescu, G; Marutescu, L; Chifiriuc, MC

**Source:** JOURNAL OF NANOPARTICLE RESEARCH **Volume:** 16 **Issue:** 1 **Article Number:** 2203

**DOI:** 10.1007/s11051-013-2203-3 **Published:** DEC 24 2013

**ISSN:** 1388-0764

**eISSN:** 1572-896X

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Virulence markers in Pseudomonas aeruginosa isolates from hospital-acquired infections occurred in patients with underlying cardiovascular disease

**Author(s):** Holban, AM; \*Chifiriuc, MC; Cotar, AI; Bleotu, C; Grumezescu, AM; Banu, O; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 18 **Issue:** 6 **Pages:** 8843-8854

**Published:** NOV-DEC 2013

**ISSN:** 1224-5984

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Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics

**Author(s):** Grumezescu, AM; Andronescu, E; Holban, AM; Fikai, A; Fikai, D; Voicu, G; Grumezescu, V; Balaure, PC; Chifiriuc, CM

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 454 **Issue:** 1 **Pages:** 233-240 **DOI:** 10.1016/j.ijpharm.2013.06.054 **Published:** SEP 15 2013

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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Biohybrid Nanostructured Iron Oxide Nanoparticles and Satureja hortensis to Prevent Fungal

Biofilm Development

**Author(s):** Anghel, I; Grumezescu, AM; Holban, AM; Fikai, A; Anghel, AG; **Chifiriuc, MC**

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES

**Volume:** 14 **Issue:** 9 **Pages:** 18110-18123 **DOI:** 10.3390/ijms140918110 **Published:** SEP 2013  
**eISSN:** 1422-0067

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Water dispersible magnetite nanoparticles influence the efficacy of antibiotics against planktonic and biofilm embedded Enterococcus faecalis cells

**Author(s):** **Chifiriuc, MC**; Grumezescu, AM; Andronescu, E; Fikai, A; Cotar, AI; Grumezescu, V; Bezirtzoglou, E; Lazar, V; Radulescu, R

**Source:** ANAEROBE **Volume:** 22 **Pages:** 14-19

**DOI:** 10.1016/j.anaerobe.2013.04.013 **Published:** AUG 2013

**ISSN:** 1075-9964

**eISSN:** 1095-8274

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In vitro activity of the new water-dispersible Fe<sub>3</sub>O<sub>4</sub>@usnic acid nanostructure against planktonic and sessile bacterial cells

**Author(s):** Grumezescu, AM; Cotar, AI; Andronescu, E; Fikai, A; Ghitulica, CD; Grumezescu, V; Vasile, BS; **Chifiriuc, MC**

**Source:** JOURNAL OF NANOPARTICLE RESEARCH **Volume:** 15 **Issue:** 7 **Article Number:** 1766

**DOI:** 10.1007/s11051-013-1766-3 **Published:** JUL 2013

**ISSN:** 1388-0764

**eISSN:** 1572-896X

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Magnetic Nanoparticles for Controlling in vitro Fungal Biofilms

**Author(s):** **Chifiriuc, MC**; Grumezescu, AM; Saviuc, C; Hristu, R; Grumezescu, V; Bleotu, C; Stanciu, G; Mihaiescu, DE; Andronescu, E; Lazar, V; Radulescu, R

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 10 **Pages:** 1023-1028

**DOI:** 10.2174/1385272811317100004 **Published:** MAY 2013

**ISSN:** 1385-2728

**eISSN:** 1875-5348

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Biocompatible Magnetic Hollow Silica Microspheres for Drug Delivery

**Author(s):** Grumezescu, AM; Andronescu, E; Fikai, A; Grumezescu, V; Bleotu, C; Saviuc, C; Mihaiescu, DE; **Chifiriuc, CM**

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 10 **Pages:** 1029-1033

**DOI:** 10.2174/1385272811317100005 **Published:** MAY 2013

**ISSN:** 1385-2728

**eISSN:** 1875-5348

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Efficient surface functionalization of wound dressings by a phytoactive nanocoating refractory to Candida albicans biofilm development

**Author(s):** Anghel, I; Holban, AM; Andronescu, E; Grumezescu, AM; **Chifiriuc, MC**

**Source:** BIOINTERPHASES **Volume:** 8 **Article Number:** 12 **DOI:** 10.1186/1559-4106-8-12  
**Published:** APR 25 2013

**ISSN:** 1934-8630

**eISSN:** 1559-4106

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Antitumor Activity of Magnetite Nanoparticles: Influence of Hydrocarbonated Chain of Saturated Aliphatic Monocarboxylic Acids

**Author(s):** Voicu, G; Andronescu, E; Grumezescu, AM; Huang, KS; Fikai, A; Yang, CH; Bleotu, C; **Chifiriuc, MC**

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 8 **Pages:** 831-840  
**DOI:** 10.2174/1385272811317080008 **Published:** APR 2013  
**ISSN:** 1385-2728  
**eISSN:** 1875-5348

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Caprolactam-silica network, a strong potentiator of the antimicrobial activity of kanamycin against Gram-positive and Gram-negative bacterial strains

**Author(s):** Voicu, G; Grumezescu, V; Andronescu, E; Grumezescu, AM; Fikai, A; Fikai, D; Ghitulica, CD; Gheorghe, I; **Chifiriuc, MC**  
**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 446 **Issue:** 1-2  
**Pages:** 63-69 **DOI:** 10.1016/j.ijpharm.2013.02.011 **Published:** MAR 25 2013  
**ISSN:** 0378-5173  
**eISSN:** 1873-3476

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Investigation of Th1/Th2 cytokine profiles in patients with laryngo-pharyngeal, HPV-positive cancers

**Author(s):** Bleotu, C; **Chifiriuc, MC**; Grigore, R; Grancea, C; Popescu, CR; Anton, G; Cernescu, C  
**Source:** EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY  
**Volume:** 270 **Issue:** 2 **Pages:** 711-718 **DOI:** 10.1007/s00405-012-2067-7 **Published:** FEB 2013  
**ISSN:** 0937-4477  
**eISSN:** 1434-4726

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Special Issue on Quorum Sensing Inhibitors: Synthesis, Optimization, and Emerging Biomedical Applications

**Author(s):** **Chifiriuc, MC**  
**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 89-89  
**Published:** JAN 2013  
**ISSN:** 1385-2728  
**eISSN:** 1875-5348

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Current Solutions for the Interception of Quorum Sensing in Staphylococcus aureus

**Author(s):** Cotar, AI; Ionescu, B; Pelinescu, D; Voidarou, C; Lazar, V; Bezirtzoglou, E; **Chifiriuc, MC**  
**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 97-104  
**Published:** JAN 2013  
**ISSN:** 1385-2728  
**eISSN:** 1875-5348

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Pseudomonas aeruginosa -Eukaryotic Cell Crosstalk: Mediators, Mechanisms and Implications for the Antimicrobial Therapy

**Author(s):** Curutiu, C; \***Chifiriuc, MC**; Mitache, MM  
**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 149-154  
**DOI:** 10.2174/1385272811317020011 **Published:** JAN 2013  
**ISSN:** 1385-2728  
**eISSN:** 1875-5348

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Anti-pathogenic Strategies for Fighting Pseudomonas aeruginosa Infections- probiotic Soluble Compounds as Inhibitors of Quorum Sensing Genes Expression

**Author(s):** Cotar, AI; Saviuc, C; Nita, RA; Bezirtzoglou, E; Lazar, V; **Chifiriuc, MC**  
**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 155-161  
**Published:** JAN 2013  
**ISSN:** 1385-2728

Antimicrobial Potential of Benzamides and Derived Nanosystems for Controlling in vitro Biofilm Development on Medical Devices

**Author(s):** Limban, C; Grumezescu, AM; Chirea, M; Matei, L; **Chifiriuc, MC**

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 17 **Issue:** 2 **Pages:** 162-175

**DOI:** 10.2174/1385272811317020013 **Published:** JAN 2013

**ISSN:** 1385-2728

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EUGENIA CARYOPHYLLATA ESSENTIAL OIL-SiO<sub>2</sub> BIOHYBRID STRUCTURE FOR THE POTENTIATION OF ANTIBIOTICS' ACTIVITY

**Author(s):** Grumezescu, AM; Andronescu, E; Fikai, A; Voicu, G; Cocos, O; **Chifiriuc, MC**

**Source:** REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS

**Volume:** 43 **Issue:** 2 **Pages:** 160-166 **Published:** 2013

**ISSN:** 1583-3186

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Modified wound dressing with phyto-nanostructured coating to prevent staphylococcal and pseudomonal biofilm development

**Author(s):** Anghel, I; Holban, AM; Grumezescu, AM; Andronescu, E; Fikai, A; Anghel, AG; Maganu, M; Lazar, V; **Chifiriuc, MC**

**Source:** NANOSCALE RESEARCH LETTERS **Volume:** 7 **Pages:** 1-8 **Article Number:** 690

**DOI:** 10.1186/1556-276X-7-690 **Published:** DEC 31 2012

**ISSN:** 1931-7573

**eISSN:** 1556-276X

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Hybrid Nanomaterial for Stabilizing the Antibiofilm Activity of Eugenia carryophyllata Essential Oil

**Author(s):** Grumezescu, AM; **Chifiriuc, MC**; Saviuc, C; Grumezescu, V; Hristu, R; Mihaiescu, DE; Stanciu, GA; Andronescu, E

**Source:** IEEE TRANSACTIONS ON NANOBIOSCIENCE **Volume:** 11 **Issue:** 4 **Pages:** 360-365

**DOI:** 10.1109/TNB.2012.2208474 **Published:** DEC 2012

**ISSN:** 1536-1241

**eISSN:** 1558-2639

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Influence of hybrid inorganic/organic mesoporous and nanostructured materials on the cephalosporins' efficacy on different bacterial strains

**Author(s):** **Chifiriuc, MC**; Mihaiescu, D; Ilinca, E; Marutescu, L; Mihaescu, G; Grumezescu, AM

**Source:** IET NANOBIO TECHNOLOGY **Volume:** 6 **Issue:** 4 **Pages:** 156-161

**DOI:** 10.1049/iet-nbt.2011.0066 **Published:** DEC 2012

**ISSN:** 1751-8741

**eISSN:** 1751-875X

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Improved antibacterial activity of cephalosporins loaded in magnetic chitosan microspheres

**Author(s):** **Chifiriuc, CM**; Grumezescu, AM; Saviuc, C; Croitoru, C; Mihaiescu, DE; Lazar, V

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 436 **Issue:** 1-2

**Pages:** 201-205 **DOI:** 10.1016/j.ijpharm.2012.06.031 **Published:** OCT 15 2012

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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Synthesis, characterization and in vitro assessment of the magnetic chitosan-carboxymethylcellulose biocomposite interactions with the prokaryotic and eukaryotic cells

**Author(s):** Grumezescu, AM; Andronescu, E; Fikai, A; Bleotu, C; Mihaiescu, DE; **Chifiriuc, MC**  
**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 436 **Issue:** 1-2  
**Pages:** 771-777 **DOI:** 10.1016/j.ijpharm.2012.07.063 **Published:** OCT 15 2012  
**ISSN:** 0378-5173  
**eISSN:** 1873-3476

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POLYMERIC MAGNETIC SILICA MICROSPHERES AS A DRUG LOADER FOR  
ANTIMICROBIAL DELIVERY SUBSTANCES

**Author(s):** Grumezescu, AM; Fikai, A; Fikai, D; Predan, G; **Chifiriuc, MC**  
**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES  
**Volume:** 7 **Issue:** 4 **Pages:** 1891-1896 **Published:** OCT-DEC 2012  
**ISSN:** 1842-3582

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Optimized Anti-pathogenic Agents Based on Core/Shell Nanostructures and 2-((4-  
Ethylphenoxy)ethyl)-N-(substituted-phenylcarbamothioyl)-benzamides

**Author(s):** Limban, C; Grumezescu, AM; Saviuc, C; Voicu, G; Predan, G; Sakizlian, R; **Chifiriuc, MC**  
**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES  
**Volume:** 13 **Issue:** 10 **Pages:** 12584-12597 **DOI:** 10.3390/ijms131012584 **Published:** OCT 2012  
**ISSN:** 1661-6596  
**eISSN:** 1422-0067

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In vitro evaluation of anti-pathogenic surface coating nanofluid, obtained by combining Fe<sub>3</sub>O<sub>4</sub>/C-12  
nanostructures and 2-((4-ethylphenoxy)methyl)-N-(substituted-phenylcarbamothioyl)-benzamides

**Author(s):** Anghel, I; Limban, C; Grumezescu, AM; Anghel, AG; Bleotu, C ; **Chifiriuc, MC**  
**Source:** NANOSCALE RESEARCH LETTERS **Volume:** 7 **Article Number:** 513  
**DOI:** 10.1186/1556-276X-7-513 **Published:** SEP 19 2012  
**ISSN:** 1931-7573  
**eISSN:** 1556-276X

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Magnetite nanoparticles for functionalized textile dressing to prevent fungal biofilms development

**Author(s):** Anghel, I; Grumezescu, AM; Andronescu, E; Anghel, AG; Fikai, A; Saviuc, C;  
Grumezescu, V; Vasile, BS; **Chifiriuc, MC**  
**Source:** NANOSCALE RESEARCH LETTERS **Volume:** 7 **Article Number:** 501  
**DOI:** 10.1186/1556-276X-7-501 **Published:** SEP 6 2012  
**ISSN:** 1931-7573  
**eISSN:** 1556-276X

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ANTIBIOTIC POTENTIATOR EFFECT OF THE NATURAL AND SYNTHETIC ZEOLITES  
WITH WELL DEFINED NANOPORES WITH POSSIBLE ENT CLINICAL APPLICATIONS

**Author(s):** Anghel, I; Grumezescu, AM; Anghel, AG; Chireac, I; Marutescu, L; Mihaiescu, DE;  
**Chifiriuc, MC**  
**Source:** FARMACIA **Volume:** 60 **Issue:** 5 **Pages:** 688-695 **Published:** SEP-OCT 2012  
**ISSN:** 0014-8237  
**eISSN:** 2065-0019

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PROTECTIVE EFFECT OF MAGNETITE NANOPARTICLE/SALVIA OFFICINALIS  
ESSENTIAL OIL HYBRID NANOBIOSYSTEM AGAINST FUNGAL COLONIZATION ON  
THE PROVOX (R) VOICE SECTION PROSTHESIS

**Author(s):** Anghel, I; Grumezescu, V; Andronescu, E; Anghel, GA; Grumezescu, AM; Mihaiescu,  
DE; **Chifiriuc, MC**

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

**Volume:** 7 **Issue:** 3 **Pages:** 1205-1212 **Published:** JUL-SEP 2012

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Hybrid magnetite nanoparticles/Rosmarinus officinalis essential oil nanobiosystem with antibiofilm activity

**Author(s):** Chifiriuc, C; Grumezescu, V; Grumezescu, AM; Saviuc, C; Lazar, V; Andronescu, E

**Source:** NANOSCALE RESEARCH LETTERS **Volume:** 7 **DOI:** 10.1186/1556-276X-7-209

**Published:** APR 10 2012

**ISSN:** 1556-276X

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PHENOTYPIC AND GENOTYPIC ASSESSMENT OF VIRULENCE FACTORS IN BETA-HEMOLYTIC STREPTOCOCCI ISOLATED FROM KINDERGARTEN INFANTILE POPULATION, WITH OR WITHOUT CLINICAL SYMPTOMS, INCLUDING SCARLET FEVER

**Author(s):** Anghel, I; \*Chifiriuc, MC; Mitache, M; Marutescu, L; Anghel, AG; Popa, M; Pelinescu, D; Bleotu, C; Lazar, V

**Source:** FARMACIA **Volume:** 60 **Issue:** 1 **Pages:** 21-31 **Published:** JAN-FEB 2012

**ISSN:** 0014-8237

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Interaction of bacteria isolated from clinical biofilms with cardiovascular prosthetic devices and eukaryotic cells

**Author(s):** Chifiriuc, MC; Banu, O; Bleotu, C; Lazar, V

**Source:** ANAEROBE **Volume:** 17 **Issue:** 6 **Special Issue:** SI **Pages:** 419-421

**DOI:** 10.1016/j.anaerobe.2011.04.016 **Published:** DEC 2011

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In vitro assay of the antimicrobial activity of kephir against bacterial and fungal strains

**Author(s):** Chifiriuc, MC; Cioaca, AB; Lazar, V

**Source:** ANAEROBE **Volume:** 17 **Issue:** 6 **Special Issue:** SI **Pages:** 433-

435 **DOI:** 10.1016/j.anaerobe.2011.04.020 **Published:** DEC 2011

**ISSN:** 1075-9964

**eISSN:** 1095-8274

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Modulation of virulence and antibiotic susceptibility of enteropathogenic Escherichia coli strains by Enterococcus faecium probiotic strain culture fractions

**Author(s):** Ditu, LM; \*Chifiriuc, MC; Bezirtzoglou, E; Voltsi, C; Bleotu, C; Pelinescu, D; Mihaescu, G; Lazar, V

**Source:** ANAEROBE **Volume:** 17 **Issue:** 6 **Special Issue:** SI **Pages:** 448-451

**DOI:** 10.1016/j.anaerobe.2011.05.019 **Published:** DEC 2011

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Inhibitory Activity of Fe<sub>3</sub>O<sub>4</sub>/Oleic Acid/Usnic Acid-Core/Shell/Extra-Shell Nanofluid on S. aureus Biofilm Development

**Author(s):** Grumezescu, AM; Saviuc, C; \*Chifiriuc, MC; Hristu, R; Mihaiescu, DE; Balaure, P; Stanciu, GA; Lazar, V

**Source:** IEEE TRANSACTIONS ON NANOBIOSCIENCE **Volume:** 10 **Issue:** 4 **Pages:** 269-274

**DOI:** 10.1109/TNB.2011.2178263 **Published:** DEC 2011

**ISSN:** 1536-1241

**eISSN:** 1558-2639



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PATHOGENIC FEATURES AND THERAPEUTICAL IMPLICATIONS OF BIOFILM DEVELOPMENT ABILITY IN MICROBIAL STRAINS ISOLATED FROM RHINOLOGIC CHRONIC INFECTIONS

**Author(s):** Anghel, I; \***Chifiriuc, MC**; Anghel, GA

**Source:** FARMACIA **Volume:** 59 **Issue:** 6 **Pages:** 770-783 **Published:** NOV-DEC 2011

**ISSN:** 0014-8237

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Antibacterial Activity of New Dibenzoxepinone Oximes with Fluorine and Trifluoromethyl Group Substituents

**Author(s):** Limban, C; **Chifiriuc, MC**

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 12 **Issue:** 10 **Pages:** 6432-6444

**DOI:** 10.3390/ijms12106432 **Published:** OCT 2011

**ISSN:** 1422-0067

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Synthesis, Structure Elucidation and Microbiological Screening of Some New Dibenz [b,e]Oxepin Derivatives

**Author(s):** Limban, C; Missir, AV; Chirita, IC; Caproiu, MT; Guta, R; **Chifiriuc, MC**

**Source:** REVISTA DE CHIMIE **Volume:** 62 **Issue:** 10 **Pages:** 969-974 **Published:** OCT 2011

**ISSN:** 0034-7752

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SYNTHESIS OF NEW DIBENZ[b,e]OXEPINS AND THEIR ANTIMICROBIAL INVESTIGATIONS

**Author(s):** Limban, C; Missir, AV; Caproiu, MT; \***Chifiriuc, MC**; Nitulescu, GM; Chirita, IC; Nuta, DC; Morusciag, L; Guta, R

**Source:** EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES **Volume:** 44 **Pages:** 191-192

**Supplement:** 1 **Published:** SEP 24 2011

**ISSN:** 0928-0987

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Synthesis, Spectroscopic Properties and Antipathogenic Activity of New Thiourea Derivatives

**Author(s):** Limban, C; Marutescu, L; **Chifiriuc, MC**

**Source:** MOLECULES **Volume:** 16 **Issue:** 9 **Pages:** 7593-7607

**DOI:** 10.3390/molecules16097593 **Published:** SEP 2011

**eISSN:** 1420-3049

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Selection and characterization of the probiotic potential of some lactic acid bacteria isolated from infant feces

**Author(s):** Pelinescu, D; \***Chifiriuc, MC**; Ditu, LM; Sarbu, I; Bleotu, C; Vassu, T; Stoica, I; Lazar, V; Corcoionivoschi, N; Sasarman, E

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 16 **Issue:** 3

**Pages:** 6278-6289 **Published:** MAY-JUN 2011

**ISSN:** 1224-5984

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Synthesis and Antimicrobial Evaluation of Some New 2-(4-fluoro-phenoxyethyl) Benzoic Acid Thiourea Derivatives

**Author(s):** Limban, C; Missir, AV; Chirita, IC; Neagu, AF; Draghici, C; **Chifiriuc, MC**

**Source:** REVISTA DE CHIMIE **Volume:** 62 **Issue:** 2 **Pages:** 168-173 **Published:** FEB 2011

**ISSN:** 0034-7752

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Immunogenicity of different cellular fractions of *Vibrio parahaemolyticus* strains grown under sub-lethal heat and osmotic stress

**Author(s):** Chifiriuc, MC; Pircalabioru, G; Lazar, V Gilea, B; Dascalu, L; Enache, G; Bleotu, C  
**ISSN:** 1996-0808

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BACTERIAL ADHERENCE TO THE CELLULAR AND INERT SUBSTRATE IN THE PRESENCE OF CoFe<sub>2</sub>O<sub>4</sub> AND Fe<sub>3</sub>O<sub>4</sub>/OLEIC ACID - CORE/SHELL

**Author(s):** Chifiriuc, C; Lazar, V; Bleotu, C; Calugarescu, I; Grumezescu, AM; Mihaiescu, DE; Mogosanu, DE; Buteica, AS; Buteica, E

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

**Volume:** 6 **Issue:** 1 **Pages:** 37-42 **Published:** JAN-MAR 2011

**ISSN:** 1842-3582

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DEAE-CELLULOSE/Fe<sub>3</sub>O<sub>4</sub>/CEPHALOSPORINS HYBRID MATERIALS FOR TARGETED DRUG DELIVERY

**Author(s):** Grumezescu, AM; Andronescu, E; Fikai, A; Saviuc, C; Mihaiescu, D; Chifiriuc, MC

**Source:** REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS

**Volume:** 41 **Issue:** 4 **Pages:** 383-387 **Published:** 2011

**ISSN:** 1583-3186

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Screening of Molecular Virulence Markers in Staphylococcus aureus and Pseudomonas aeruginosa Strains Isolated from Clinical Infections

**Author(s):** Cotar, AI; \*Chifiriuc, MC; Dinu, S; Bucur, M; Iordache, C; Banu, O; Dracea, O; Larion, C; Lazar, V

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES

**Volume:** 11 **Issue:** 12 **Pages:** 5274-5292 **DOI:** 10.3390/ijms11125273 **Published:** DEC 2010

**eISSN:** 1422-0067

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SYNTHESIS, STRUCTURAL CHARACTERIZATION AND MICROBIOLOGICAL ASSAYS OF SOME NEW 2-METHOXY-O-ACYL-OXIMINO-DIBENZ[b,e]OXEPINS

**Author(s):** Limban, C; Missir, AV; Chirita, IC; Guta, R; Nanau-Andreescu, D; Nitulescu, GM; Draghici, C; Caproiu, MT; Delcaru, C; Chifiriuc, MC

**Source:** REVUE ROUMAINE DE CHIMIE **Volume:** 55 **Issue:** 6 **Pages:** 313-319

**Published:** JUN 2010

**ISSN:** 0035-3930

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Thermal, spectral and antimicrobial study on some Cu(II) complexes with ligands bearing biguanide moieties

**Author(s):** Olar, R; Badea, M; Marinescu, D; Iorgulescu, EE; Frunza, E; Lazar, V; Chifiriuc, C

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 99 **Issue:** 3 **Pages:** 815-821 **DOI:** 10.1007/s10973-009-0414-8

**Published:** MAR 2010

**ISSN:** 1388-6150

**eISSN:** 1572-8943

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QSARs on Antibacterial Activity of Some New not yet Synthesized, Substituted Dihydrodibenzothiepins

**Author(s):** Tarko, L; Stecoza, CE; Nitulescu, GM; Ilie, C; Chifiriuc, MC

**Source:** REVISTA DE CHIMIE **Volume:** 61 **Issue:** 3 **Pages:** 263-266 **Published:** MAR 2010

**ISSN:** 0034-7752

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Antimicrobial activity of some new O-acyloximino-dibenzo[b,e]thiepins and O-acyloximino-dibenzo[b,e]thiepin-5,5-dioxides against planktonic cells

**Author(s):** Chifiriuc, MC; Stecoza, C; Veronica, L; Dracea, O; Larion, C; Israil, AM

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 15 **Issue:** 2 **Pages:** 5134-

5139

**Published:** MAR-APR 2010

**ISSN:** 1224-5984

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New complexes of Ni(II) and Cu(II) with Schiff bases functionalised with 1,3,4-thiadiazole: spectral, magnetic, biological and thermal characterisation

**Author(s):** Olar, R; Badea, M; Marinescu, D; Lazar, V; **Chifiriuc, C**

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 97 **Issue:** 2 **Pages:** 721-727 **DOI:** 10.1007/s10973-009-0280-4 **Published:** AUG 2009

**ISSN:** 1388-6150

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Thermal behaviour of new Ni(II) and Cu(II) complexes with macrocyclic ligands functionalised with 1,2,4-triazole

**Author(s):** Olar, R; Badea, M; Marinescu, D; Lazar, V; **Chifiriuc, C**

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 97 **Issue:** 1 **Pages:** 315-321 **DOI:** 10.1007/s10973-008-9650-6

**Published:** JUL 2009

**ISSN:** 1388-6150

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Impact of different parameters upon the expression of certain virulence factors of nonhalophilic and halophilic Vibrio strains

**Author(s):** Israil, AM; Delcaru, C; **Chifiriuc, MC**

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 4 **Pages:** 4545-4559 **Published:** JUL-AUG 2009

**ISSN:** 1224-5984

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Antimicrobial activity of some new thioureides derived from 2-(4-chlorophenoxymethyl) benzoic acid

**Author(s):** Limban, C; \***Chifiriuc, MCB**; Missir, AV; Chirita, IC; Bleotu, C

**Source:** MOLECULES **Volume:** 13 **Issue:** 3 **Pages:** 567-580

**DOI:** 10.3390/molecules13030567 **Published:** MAR 2008

**ISSN:** 1420-3049

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Influence of soluble mediators upon the expression of different physiological and virulence hallmarks of bacteria

**Author(s):** **Chifiriuc, MC**; Larion, C; Iordache, C; Lixandru, M; Dracea, O; Bleotu, C; Bucur, M; Israil, AM

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 2 **Pages:** 3631-3642

**Published:** MAR-APR 2008

**ISSN:** 1224-5984

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Internalization of Staphylococcus aureus and Pseudomonas aeruginosa bacterial cells by non-phagocytic, epithelial human cells

**Author(s):** **Chifiriuc, MC**; Lixandru, M; Iordache, C; Bleotu, C; Larion, C; Olguta, D; Lazar, V; Antohe, F; Israil, AM

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 2 **Pages:** 3651-3658

**Published:** MAR-APR 2008

**ISSN:** 1224-5984

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Drastic attenuation of Pseudomonas aeruginosa pathogenicity in a holoxenic mouse experimental

model induced by subinhibitory concentrations of phenyllactic acid (PLA)

**Author(s):** Chifiriuc, MC; Veronica, L; Dracea, O; Ditu, LM; Smarandache, D; Bucur, M; Larion, C; Cernat, R; Sasarman, E

**Source:** INTERNATIONAL JOURNAL OF MOLECULAR

SCIENCES **Volume:** 8 **Issue:** 7 **Pages:** 583-592 **DOI:** 10.3390/i8070583 **Published:** JUL 2007

**ISSN:** 1422-0067

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Tarko, L; Stecoza, CE; Ilie, C; Chifiriuc, MC. QSAR Studies on Antibacterial Activity of Some Substituted Dihydrodibenzothiepins. Revista de Chimie Volume 60 nr. 5, 2009, ISSN: 0034-7752

**ARTICOLE ISI PROCEEDINGS**

1.Vrancianu CO, Dobre EG, Gheorghe I, Barbu I, Cristian RE, **Chifiriuc MC** „Current Promising Antibiotics and Future Approaches in Combating Carbapenemase Producing Enterobacteriaceae“, Multidisciplinary Digital Publishing Institute Proceedings, 2021, 66(1):25

**ARTICOLE ISI PUBLICATE ÎN CALITATE DE COAUTOR**

**Title:** Benign by design: porous spherical ZnO-alginate family via a dual-template synthesis

**Author(s):** Ene, CD (Ene, Cristian D.); Cucos, P (Cucos, Paula); Ianculescu, A (Ianculescu, Adelina); Culita, DC (Culita, Daniela C.); Anghel, EM (Anghel, Elena Maria); Cucos, A (Cucos, Andrei); Atkinson, I (Atkinson, Irina); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Calderon-Moreno, JM (Calderon-Moreno, Jose Maria); Carp, O (Carp, Oana)

**Source:** APPLIED SURFACE SCIENCE **Volume:** 580 **Article Number:** 152231 **DOI:** 10.1016/j.apsusc.2021.152231 **Published:** APR 1 2022

**Accession Number:** WOS:000736662300004

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**Title:** Contribution of Epithelial and Gut Microbiome Inflammatory Biomarkers to the Improvement of Colonctal Cancer Patients' Stratification

**Author(s):** Ionica, E (Ionica, Elena); Gaina, G (Gaina, Gisela); Tica, M (Tica, Mihaela); Chifiriuc, MC (Chifiriuc, Mariana-Carmen); Gradisteanu-Pircalabioru, G (Gradisteanu-Pircalabioru, Gratiela)

**Source:** FRONTIERS IN ONCOLOGY **Volume:** 11 **Article Number:** 811486 **DOI:** 10.3389/fonc.2021.811486 **Published:** FEB 7 2022

**Accession Number:** WOS:000760700000001

**PubMed ID:** 35198435

**ISSN:** 2234-943X

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**Title:** Insights into Structure and Biological Activity of Copper(II) and Zinc(II) Complexes with Triazolopyrimidine Ligands

**Author(s):** Argaseala, A (Argaseala, Aura); Maxim, C (Maxim, Catalin); Badea, M (Badea, Mihaela); Ionita, L (Ionita, Larisa); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Rostas, AM (Rostas, Arpad Mihai); Bacalum, M (Bacalum, Mihaela); Raileanu, M (Raileanu, Mina); Ruta, LL (Ruta, Lavinia L.); Farcasanu, IC (Farcasanu, Ileana C.); Iorgulescu, EE (Iorgulescu, Emilia Elena); Olar, R (Olar, Rodica)

**Source:** MOLECULES **Volume:** 27 **Issue:** 3 **Article**

**Number:** 765 **DOI:** 10.3390/molecules27030765 **Published:** FEB 2022

**Accession Number:** WOS:000759549000001

**PubMed ID:** 35164029

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**Title:** Soft Chemistry Synthesis and Characterization of CoFe<sub>1.8</sub>RE<sub>0.2</sub>O<sub>4</sub> (RE<sup>3+</sup> = Tb<sup>3+</sup>, Er<sup>3+</sup>) Ferrite

**Author(s):** Gingasu, D (Gingasu, Dana); Mindru, I (Mindru, Ioana); Ianculescu, AC (Ianculescu, Adelina-Carmen); Diamandescu, L (Diamandescu, Lucian); Surdu, VA (Surdu, Vasile-Adrian); Marinescu, G (Marinescu, Gabriela); Bartha, C (Bartha, Cristina); Preda, S

(Preda, Silviu); Popa, M (Popa, Marcela); Chifiriuc, MC (Chifiriuc, Mariana Carmen)

**Source:** MAGNETOCHEMISTRY **Volume:** 8 **Issue:** 2 **Article**

**Number:** 12 **DOI:** 10.3390/magnetochemistry8020012 **Published:** FEB 2022

**Accession Number:** WOS:000763037000001

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**Title:** Novel Structures of Functionalized Graphene Oxide with Hydrazide: Characterizat and Bioevaluation of Antimicrobial and Cytocompatibility Features

**Author(s):** Zarafu, I (Zarafu, Irina); Limban, C (Limban, Carmen); Radulescu, C (Radules Cristiana); Dulama, ID (Dulama, Ioana Daniela); Nuta, DC (Nuta, Diana Camelia); Chirita (Chirita, Cornel); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Badiceanu, CD (Badicea Carmellina Daniela); Popa, M (Popa, Marcela); Bleotu, C (Bleotu, Coralia); Dragu, LD (Dra Laura Denisa); Stirbescu, RM (Stirbescu, Raluca Maria); Bucurica, IA (Bucurica, Ioan Ali Stanescu, SG (Stanescu, Sorina Geanina); Ionita, P (Ionita, Petre)

**Source:** COATINGS **Volume:** 12 **Issue:** 1 **Article**

**Number:** 45 **DOI:** 10.3390/coatings12010045 **Published:** JAN 2022

**Accession Number:** WOS:000748826200001

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**Title:** Fabrication of Novel Chitosan-Hydroxyapatite Nanostructured Thin Films Biomedical Applications

**Author(s):** Ciobanu, CS (Ciobanu, Carmen Steluta); Iconaru, SL (Iconaru, Simona Liliar Predoi, D (Predoi, Daniela); Trusca, RD (Trusca, Roxana-Doina); Prodan, AM (Prodan, Al Mihaela); Groza, A (Groza, Andreea); Chifiriuc, MC (Chifiriuc, Mariana Carmen); Beuran, (Beuran, Mircea)

**Source:** COATINGS **Volume:** 11 **Issue:** 12 **Article**

**Number:** 1561 **DOI:** 10.3390/coatings11121561 **Published:** DEC 2021

**Accession Number:** WOS:000736056800001

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**Title:** Carriage of ESBL-producing Enterobacterales in wastewater treatment plant workers : surrounding residents - the AWARE Study

**Author(s):** Rodriguez-Molina, D (Rodriguez-Molina, Daloha); Berglund, F (Berglund, Fanr Blaak, H (Blaak, Hetty); Flach, CF (Flach, Carl-Fredrik); Kemper, M (Kemper, Mer Marutescu, L (Marutescu, Luminita); Gradisteanu, GP (Gradisteanu, Gratiela Pircalabioru Popa, M (Popa, Marcela); Spiessberger, B (Spiessberger, Beate); Weinmann, T (Weinma Tobias); Wengenroth, L (Wengenroth, Laura); Chifiriuc, MC (Chifiriuc, Mariana Carme Larsson, DGJ (Larsson, D. G. Joakim); Nowak, D (Nowak, Dennis); Radon, K (Radon, Kat Husman, AMD (de Roda Husman, Ana Maria); Wieser, A (Wieser, Andreas); Schmitt, (Schmitt, Heike)

**Source:** EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIO DISEASES **DOI:** 10.1007/s10096-021-04387-z **Early Access Date:** DEC 2021

**Accession Number:** WOS:000729664900001

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**Title:** Point-of-Care Testing-The Key in the Battle against SARS-CoV-2 Pandemic

**Author(s):** Iliescu, FS (Iliescu, Florina Silvia); Ionescu, AM (Ionescu, Ana Maria); Gogianu (Gogianu, Larisa); Simion, M (Simion, Monica); Dediu, V (Dediu, Violeta); Chifiriuc, I (Chifiriuc, Mariana Carmen); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Iliescu (Iliescu, Ciprian)

**Source:** MICROMACHINES **Volume:** 12 **Issue:** 12 **Article**

**Number:** 1464 **DOI:** 10.3390/mi12121464 **Published:** DEC 2021

**Accession Number:** WOS:000736266900001

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**Title:** Biological Activity of Triazolopyrimidine Copper(II) Complexes Modulated by an Auxiliary N-N-Chelating Heterocycle Ligands

**Author(s):** Ruta, LL (Ruta, Lavinia L.); Farcasanu, IC (Farcasanu, Ileana C.); Bacalum, M (Bacalum, Mihaela); Raileanu, M (Raileanu, Mina); Rostas, AM (Rostas, Arpad Mihai); Daniliuc, C (Daniliuc, Constantin); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Marutescu, L (Marutescu, Luminita); Popa, M (Popa, Marcela); Badea, M (Badea, Mihaela); Iorgulescu, EE (Iorgulescu, Emilia Elena); Olar, R (Olar, Rodica)

**Source:** MOLECULES **Volume:** 26 **Issue:** 22 **Article**

**Number:** 6772 **DOI:** 10.3390/molecules26226772 **Published:** NOV 2021

**eISSN:** 1420-3049

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**Title:** Original Contributions to the Chemical Composition, Microbicidal, Virulence-Arresting and Antibiotic-Enhancing Activity of Essential Oils from Four Coniferous Species

**Author(s):** Visan, DC (Visan, Diana-Carolina); Oprea, E (Oprea, Eliza); Radulescu, V (Radulescu, Valeria); Voiculescu, I (Voiculescu, Ion); Biris, IA (Biris, Iovu-Adrian); Cotar, AI (Cotar, Ani Ioana); Saviuc, C (Saviuc, Crina); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Marinas, IC (Marinas, Ioana Cristina)

**Source:** PHARMACEUTICALS **Volume:** 14 **Issue:** 11 **Article**

**Number:** 1159 **DOI:** 10.3390/ph14111159 **Published:** NOV 2021

**eISSN:** 1424-8247

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**Title:** Copper(II) species with 1-(o-tolyl)biguanide: Structural characterization, ROS scavenging, antibacterial activity, biocompatibility and in silico studies

**Author(s):** Maxim, C (Maxim, Catalin); Badea, M (Badea, Mihaela); Rostas, AM (Rostas, Arpad Mihai); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Avram, S (Avram, Speranta); Olar, R (Olar, Rodica)

**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Article**

**Number:** e6471 **DOI:** 10.1002/aoc.6471 **Early Access Date:** OCT 2021

**ISSN:** 0268-2605

**eISSN:** 1099-0739

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**Title:** Sintered and 3D-Printed Bulks of MgB<sub>2</sub>-Based Materials with Antimicrobial Properties

**Author(s):** Badica, P (Badica, Petre); Batalu, ND (Batalu, Nicolae Dan); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Burdusel, M (Burdusel, Mihail); Grigoroscuta, MA (Grigoroscuta, Mihai Alexandru); Aldica, GV (Aldica, Gheorghe Virgil); Pasuk, I (Pasuk, Iuliana); Kuncser, A (Kuncser, Andrei); Popa, M (Popa, Marcela); Agostino, A (Agostino, Angelo); Operti, L (Operti, Lorenza); Padhi, SK (Padhi, Santanu Kumar); Bonino, V (Bonino, Valentina); Truccato, M (Truccato, Marco)

**Source:** MOLECULES **Volume:** 26 **Issue:** 19 **Article**

**Number:** 6045 **DOI:** 10.3390/molecules26196045 **Published:** OCT 2021

**eISSN:** 1420-3049

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**Title:** Microcalorimetry-Versatile Method of Describing Bacterial Growth

**Author(s):** Popa, MIG (Popa, Mihnea Ioan Gabriel); Cursaru, A (Cursaru, Adrian); Serban, B (Serban, Bogdan); Cretu, B (Cretu, Bogdan); Muntean, AA (Muntean, Andrei Alexandru);

Popa, VT (Popa, Vlad Tudor); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Cirstoiu, C (Cirstoiu, Catalin)

**Source:** APPLIED SCIENCES-BASEL **Volume:** 11 **Issue:** 20 **Article Number:** 9740 **DOI:** 10.3390/app11209740 **Published:** OCT 2021  
**eISSN:** 2076-3417

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**Title:** Composite Drug Delivery System Based on Amorphous Calcium Phosphate-Chitosan: An Efficient Antimicrobial Platform for Extended Release of Tetracycline

**Author(s):** Visan, AI (Visan, Anita Ioana); Ristoscu, C (Ristoscu, Carmen); Popescu-Pelin, G (Popescu-Pelin, Gianina); Sopronyi, M (Sopronyi, Mihai); Matei, CE (Matei, Consuela Elena); Socol, G (Socol, Gabriel); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Bleotu, C (Bleotu, Coralia); Grossin, D (Grossin, David); Brouillet, F (Brouillet, Fabien); Le Grill, S (Le Grill, Sylvain); Bertrand, G (Bertrand, Ghislaine); Zgura, I (Zgura, Irina); Cristescu, R (Cristescu, Rodica); Mihailescu, IN (Mihailescu, Ion N.)

**Source:** PHARMACEUTICS **Volume:** 13 **Issue:** 10 **Article Number:** 1659 **DOI:** 10.3390/pharmaceutics13101659 **Published:** OCT 2021  
**eISSN:** 1999-4923

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**Title:** The in vitro and in vivo anti-virulent effect of organic acid mixtures against Eimeria tenella and Eimeria bovis

**Author(s):** Balta, I (Balta, Igori); Marcu, A (Marcu, Adela); Linton, M (Linton, Mark); Kelly, C (Kelly, Carmel); Stef, L (Stef, Lavinia); Pet, I (Pet, Ioan); Ward, P (Ward, Patrick); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); **Chifiriuc, C (Chifiriuc, Carmen)**; Gundogdu, O (Gundogdu, Ozan); Callaway, T (Callaway, Todd); Corcionivoschi, N (Corcionivoschi, Nicolae)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article Number:** 16202 **DOI:** 10.1038/s41598-021-95459-9 **Published:** AUG 10 2021  
**ISSN:** 2045-2322

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**Title:** Synthesis, In Silico and In Vitro Evaluation of Antimicrobial and Toxicity Features of New 4-[(4-Chlorophenyl)sulfonyl]benzoic Acid Derivatives

**Author(s):** Apostol, TV (Apostol, Theodora-Venera); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Draghici, C (Draghici, Constantin); Socea, LI (Socea, Laura-Ileana); Marutescu, LG (Marutescu, Luminita Gabriela); Olaru, OT (Olaru, Octavian Tudorel); Nitulescu, GM (Nitulescu, George Mihai); Pahontu, EM (Pahontu, Elena Mihaela); Saramet, G (Saramet, Gabriel); Barbuceanu, SF (Barbuceanu, Stefania-Felicia)

**Source:** MOLECULES **Volume:** 26 **Issue:** 16 **Article Number:** 5107 **DOI:** 10.3390/molecules26165107 **Published:** AUG 2021  
**eISSN:** 1420-3049

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**Title:** The Impact of Long-Term Antibiotic Therapy of Cutaneous Adverse Reactions to EGFR Inhibitors in Colorectal Cancer Patients

**Author(s):** Mihai, MM (Mihai, Mara Madalina); Ion, A (Ion, Ana); Giurcaneanu, C (Giurcaneanu, Calin); Nitipir, C (Nitipir, Cornelia); Popa, AM (Popa, Ana-Maria); **Chifiriuc, MC (Chifiriuc, Mariana-Carmen)**; Popa, MI (Popa, Mircea Ioan); Ricar, J (Ricar, Jan); Popa, LG (Popa, Liliana Gabriela); Sarbu, I (Sarbu, Ionela); Lazar, V (Lazar, Veronica)

**Source:** JOURNAL OF CLINICAL MEDICINE **Volume:** 10 **Issue:** 15 **Article**



**Number:** 3219 **DOI:** 10.3390/jcm10153219 **Published:** AUG 2021

**eISSN:** 2077-0383

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**Title:** Antimicrobial Activity of MgB2 Powders Produced via Reactive Liquid Infiltration Method

**Author(s):** Padhi, SK (Padhi, Santanu Kumar); Baglieri, N (Baglieri, Nicoletta); Bonino, V (Bonino, Valentina); Agostino, A (Agostino, Angelo); Operti, L (Operti, Lorenza); Batalu, ND (Batalu, Nicolae Dan); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Popa, M (Popa, Marcela); Burdusel, M (Burdusel, Mihail); Grigoroscuta, MA (Grigoroscuta, Mihai Alexandru); Aldica, GV (Aldica, Gheorghe Virgil); Radu, D (Radu, Dana); Badica, P (Badica, Petre); Truccato, M (Truccato, Marco)

**Source:** MOLECULES **Volume:** 26 **Issue:** 16 **Article**

**Number:** 4966 **DOI:** 10.3390/molecules26164966 **Published:** AUG 2021

**eISSN:** 1420-3049

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**Title:** Isoflavonoid-Antibiotic Thin Films Fabricated by MAPLE with Improved Resistance to Microbial Colonization

**Author(s):** Grumezescu, V (Grumezescu, Valentina); Negut, I (Negut, Irina); Cristescu, R (Cristescu, Rodica); Grumezescu, AM (Grumezescu, Alexandru Mihai); Holban, AM (Holban, Alina Maria); Iordache, F (Iordache, Florin); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Narayan, RJ (Narayan, Roger J.); Chrisey, DB (Chrisey, Douglas B.)

**Source:** MOLECULES **Volume:** 26 **Issue:** 12 **Article**

**Number:** 3634 **DOI:** 10.3390/molecules26123634 **Published:** JUN 2021

**eISSN:** 1420-3049

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**Title:** ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens

**Author(s):** Rayyif, SMI (Rayyif, Sajjad Mohsin, I); Mohammed, HB (Mohammed, Hamzah Basil); Curutiu, C (Curutiu, Carmen); Birca, AC (Birca, Alexandra Catalina); Grumezescu, AM (Grumezescu, Alexandru Mihai); Vasile, BS (Vasile, Bogdan Stefan); Ditu, LM (Ditu, Lia Mara); Lazar, V (Lazar, Veronica); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Mihaescu, G (Mihaescu, Grigore); Holban, AM (Holban, Alina Maria)

**Source:** MATERIALS **Volume:** 14 **Issue:** 11 **Article**

**Number:** 3084 **DOI:** 10.3390/ma14113084 **Published:** JUN 2021

**eISSN:** 1996-1944

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**Title:** MgB2 powders and bioevaluation of their interaction with planktonic microbes, biofilms, and tumor cells

**Author(s):** Badica, P (Badica, P.); Batalu, ND (Batalu, N. D.); **Chifiriuc, MC (Chifiriuc, M. C.)**; Burdusel, M (Burdusel, M.); Grigoroscuta, MA (Grigoroscuta, M. A.); Aldica, G (Aldica, G.); Pasuk, I (Pasuk, I); Kuncser, A (Kuncser, A.); Enculescu, M (Enculescu, M.); Popa, M (Popa, M.); Marutescu, LG (Marutescu, L. G.); Gheorghe, I (Gheorghe, I); Thamer, O (Thamer, O.); Bleotu, C (Bleotu, C.); Pircalabioru, GG (Pircalabioru, G. Gradisteanu); Operti, L (Operti, L.); Bonino, V (Bonino, V); Agostino, A (Agostino, A.); Truccato, M (Truccato, M.)

**Source:** JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T **Volume:** 12 **Pages:** 2168-

2184 **DOI:** 10.1016/j.jmrt.2021.04.003 **Published:** MAY-JUN 2021

**ISSN:** 2238-7854

eISSN: 2214-0697

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**Title:** New O-Aryl-Carbamoyl-Oxymino-Fluorene Derivatives with MI-Crocidal and Antibiofilm Activity Enhanced by Combination with Iron Oxide Nanoparticles

**Author(s):** Vlad, IM (Vlad, Ilinca Margareta); Nuta, DC (Nuta, Diana Camelia); Ancuceanu, RV (Ancuceanu, Robert Viorel); Caproiu, MT (Caproiu, Miron Teodor); Dumitrascu, F (Dumitrascu, Florea); Marinas, IC (Marinas, Ioana Cristina); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Marutescu, LG (Marutescu, Luminita Gabriela); Zarafu, I (Zarafu, Irina); Papacocea, IR (Papacocea, Ioana Raluca); Vasile, BS (Vasile, Bogdan Stefan); Nicoara, AI (Nicoara, Adrian Ionut); Ilie, CI (Ilie, Cornelia-Ioana); Ficai, A (Ficai, Anton); Limban, C (Limban, Carmen)

**Source:** MOLECULES **Volume:** 26 **Issue:** 10 **Article**

**Number:** 3002 **DOI:** 10.3390/molecules26103002 **Published:** MAY 2021

eISSN: 1420-3049

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**Title:** Antibiotic Resistance in Wastewater Treatment Plants and Transmission Risks for Employees and Residents: The Concept of the AWARE Study

**Author(s):** Wengenroth, L (Wengenroth, Laura); Berglund, F (Berglund, Fanny); Blaak, H (Blaak, Hetty); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Flach, CF (Flach, Carl-Fredrik); Pircalabioru, GG (Pircalabioru, Gratiela Gradisteanu); Larsson, DGJ (Larsson, D. G. Joakim); Marutescu, L (Marutescu, Luminita); van Passel, MWJ (van Passel, Mark W. J.); Popa, M (Popa, Marcela); Radon, K (Radon, Katja); Husman, AMD (de Roda Husman, Ana Maria); Rodriguez-Molina, D (Rodriguez-Molina, Daloha); Weinmann, T (Weinmann, Tobias); Wieser, A (Wieser, Andreas); Schmitt, H (Schmitt, Heike)

**Source:** ANTIBIOTICS-BASEL **Volume:** 10 **Issue:** 5 **Article**

**Number:** 478 **DOI:** 10.3390/antibiotics10050478 **Published:** MAY 2021

ISSN: 2079-6382

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**Title:** Eugenol-Functionalized Magnetite Nanoparticles Modulate Virulence and Persistence in *Pseudomonas aeruginosa* Clinical Strains

**Author(s):** Mohammed, HB (Mohammed, Hamzah Basil); Rayyif, SMI (Rayyif, Sajjad Mohsin I.); Curutiu, C (Curutiu, Carmen); Birca, AC (Birca, Alexandra Catalina); Oprea, OC (Oprea, Ovidiu-Cristian); Grumezescu, AM (Grumezescu, Alexandru Mihai); Ditu, LM (Ditu, Lia-Mara); Gheorghe, I (Gheorghe, Irina); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Mihaescu, G (Mihaescu, Grigore); Holban, AM (Holban, Alina-Maria)

**Source:** MOLECULES **Volume:** 26 **Issue:** 8 **Article**

**Number:** 2189 **DOI:** 10.3390/molecules26082189 **Published:** APR 2021

eISSN: 1420-3049

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**Title:** Microbiome, Immunosenescence, and Chronic Kidney Disease

**Author(s):** Stavropoulou, E (Stavropoulou, Elisavet); Kantartzi, K (Kantartzi, Konstantia); Tsigalou, C (Tsigalou, Christina); Aftzoglou, K (Aftzoglou, Konstantina); Voidarou, C (Voidarou, Chrysa); Konstantinidis, T (Konstantinidis, Theocharis); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Thodis, E (Thodis, Elias); Bezirtzoglou, E (Bezirtzoglou, Eugenia)

**Source:** FRONTIERS IN MEDICINE **Volume:** 8 **Article**

**Number:** 661203 **DOI:** 10.3389/fmed.2021.661203 **Published:** MAR 19 2021

eISSN: 2296-858X

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**Title:** Contribution of Essential Oils to the Fight against Microbial Biofilms-A Review

**Author(s):** Nuta, DC (Nuta, Diana Camelia); Limban, C (Limban, Carmen); Chirita, C (Chirita, Cornel); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Costea, T (Costea, Teodora); Ionita, P (Ionita, Petre); Nicolau, I (Nicolau, Ioana); Zarafu, I (Zarafu, Irina)

**Source:** PROCESSES **Volume:** 9 **Issue:** 3 **Article**

**Number:** 537 **DOI:** 10.3390/pr9030537 **Published:** MAR 2021

**eISSN:** 2227-9717

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**Title:** Phenotypic and genotypic virulence features of staphylococcal strains isolated from difficult-to-treat skin and soft tissue infections

**Author(s):** Preda, M (Preda, Madalina); Mihai, MM (Mihai, Mara Madalina); Popa, LI (Popa, Laura Ioana); Ditu, LM (Ditu, Lia-Mara); Holban, AM (Holban, Alina Maria); Manolescu, LSC (Manolescu, Loredana Sabina Cornelia); Popa, GL (Popa, Gabriela-Loredana); Muntean, AA (Muntean, Andrei-Alexandru); Gheorghe, I (Gheorghe, Irina); **Chifiriuc, CM (Chifiriuc, Carmen Mariana)**; Popa, MI (Popa, Mircea-Ioan)

**Source:** PLOS ONE **Volume:** 16 **Issue:** 2 **Article**

**Number:** e0246478 **DOI:** 10.1371/journal.pone.0246478 **Published:** FEB 2 2021

**ISSN:** 1932-6203

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**Title:** Antibiotic resistance profiles in cultivable microbiota isolated from some romanian natural fishery lakes included in Natura 2000 network

**Author(s):** Lazar, V (Lazar, Veronica); Gheorghe, I (Gheorghe, Irina); Curutiu, C (Curutiu, Carmen); Savin, I (Savin, Ioana); Marinescu, F (Marinescu, Florica); Cristea, VC (Cristea, Violeta Corina); Dobre, D (Dobre, Dumitru); Popa, GL (Popa, Gabriela Loredana); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Popa, MI (Popa, Mircea Ioan)

**Source:** BMC VETERINARY RESEARCH **Volume:** 17 **Issue:** 1 **Article**

**Number:** 52 **DOI:** 10.1186/s12917-021-02770-8 **Published:** JAN 26 2021

**eISSN:** 1746-6148

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**Title:** First report on antibiotic resistance and antimicrobial activity of bacterial isolates from 13,000-year old cave ice core

**Author(s):** Paun, VI (Paun, Victoria I.); Lavin, P (Lavin, Paris); **Chifiriuc, MC (Chifiriuc, Mariana C.)**; Purcarea, C (Purcarea, Cristina)

**Source:** SCIENTIFIC REPORTS **Volume:** 11 **Issue:** 1 **Article**

**Number:** 514 **DOI:** 10.1038/s41598-020-79754-5 **Published:** JAN 12 2021

**ISSN:** 2045-2322

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**Title:** New Cobalt (II) Complexes with Imidazole Derivatives: Antimicrobial Efficiency against Planktonic and Adherent Microbes and In Vitro Cytotoxicity Features

**Author(s):** Fudulu, A (Fudulu, Alina); Olar, R (Olar, Rodica); Maxim, C (Maxim, Catalin); Scaeteanu, GV (Scaeteanu, Gina Vasile); Bleotu, C (Bleotu, Coralia); Matei, L (Matei, Lilia); **Chifiriuc, MC (Chifiriuc, Mariana Carmen)**; Badea, M (Badea, Mihaela)

**Source:** MOLECULES **Volume:** 26 **Issue:** 1 **Article**

**Number:** 55 **DOI:** 10.3390/molecules26010055 **Published:** JAN 2021

**eISSN:** 1420-3049

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Insight on Ni(II) and Cu(II) complexes of biguanide derivatives developed as effective antimicrobial and antitumour agents

**Author(s):** Badea, M; Grecu, MN; **Chifiriuc, MC**; Bleotu, C; Popa, M; Iorgulescu, EE; Avram, S; Uivarosi, V; Munteanu, AC; Ghica, D; Olar, R

**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Article Number:** e6155

**DOI:** 10.1002/aoc.6155 **Early Access Date:** JAN 2021

**ISSN:** 0268-2605

**eISSN:** 1099-0739

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Antibiotic resistance profiles in cultivable microbiota isolated from some romanian natural fishery lakes included in Natura 2000 network

**Author(s):** Lazar, V; Gheorghe, I; Curutiu, C; Savin, I; Marinescu, F; Cristea, VC; Dobre, D; Popa, GL; **Chifiriuc, MC**; Popa, MI

**Source:** BMC VETERINARY RESEARCH **Volume:** 17 **Issue:** 1 **Article Number:** 52

**DOI:** 10.1186/s12917-021-02770-8 **Published:** JAN 26 2021

**eISSN:** 1746-6148

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New Cobalt (II) Complexes with Imidazole Derivatives: Antimicrobial Efficiency against Planktonic and Adherent Microbes and In Vitro Cytotoxicity Features

**Author(s):** Fudulu, A; Olar, R; Maxim, C; Scaeteanu, GV; Bleotu, C; Matei, L; **Chifiriuc, MC**; Badea, M

**Source:** MOLECULES **Volume:** 26 **Issue:** 1 **Article Number:** 55

**DOI:** 10.3390/molecules26010055 **Published:** JAN 2021

**eISSN:** 1420-3049

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Fish Bone Derived Bi-Phasic Calcium Phosphate Coatings Fabricated by Pulsed Laser Deposition for Biomedical Applications

**Author(s):** Popescu-Pelin, G; Ristoscu, C; Duta, L; Pasuk, I; Stan, GE; Stan, MS; Popa, M; **Chifiriuc, MC**; Hapenciuc, C; Oktar, FN; Nicarel, A; Mihailescu, IN

**Source:** MARINE DRUGS **Volume:** 18 **Issue:** 12 **Article Number:** 623

**DOI:** 10.3390/md18120623 **Published:** DEC 2020

**eISSN:** 1660-3397

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Resistance and Virulence Features of Bacteroides spp. Isolated from Abdominal Infections in Romanian Patients

**Author(s):** Pricop, GR; Gheorghe, I; Pircalabioru, GG; Cristea, V; Popa, M; Marutescu, L; **Chifiriuc, MC**; Mihaescu, G; Bezirtzoglou, E

**Source:** PATHOGENS **Volume:** 9 **Issue:** 11 **Article Number:** 940

**DOI:** 10.3390/pathogens9110940 **Published:** NOV 2020

**eISSN:** 2076-0817

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Evaluating the role of the working environment on to skin and upper respiratory tract microbiota of museum workers

**Author(s):** Scarlat, IP; Stroe, R; Ditu, LM; Curutiu, C; Chiurtu, ER; Stanculescu, I; **Chifiriuc, MC**; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 25 **Issue:** 6 **Pages:** 2103-2106

**DOI:** 10.25083/rbl/25.6/2103.2106 **Published:** NOV-DEC 2020

**ISSN:** 1224-5984

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Copper(II) Complexes with Mixed Heterocycle Ligands as Promising Antibacterial and Antitumor Species

**Author(s):** Rostas, AM; Badea, M; Ruta, LL; Farcasanu, IC; Maxim, C; **Chifiriuc, MC**; Popa, M; Luca, M; Korosin, NC; Korosec, RC; Bacalum, M; Raileanu, M; Olar, R

**Source:** MOLECULES **Volume:** 25 **Issue:** 17 **Article Number:** 3777

**DOI:** 10.3390/molecules25173777 **Published:** SEP 2020

eISSN: 1420-3049

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Synthesis, density functional theory study and in vitro antimicrobial evaluation of new benzimidazole Mannich bases

**Author(s):** Marinescu, M; Cinteza, LO; Marton, GI; **Chifiriuc, MC**; Popa, M; Stanculescu, I; Zlaru, CM; Stavarache, CE

**Source:** BMC CHEMISTRY **Volume:** 14 **Issue:** 1 **Article Number:** 45

**DOI:** 10.1186/s13065-020-00697-z **Published:** JUL 25 2020

**eISSN:** 2661-801X

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In Vitro Evaluation of the Antimicrobial and Immunomodulatory Activity of Culinary Herb Essential Oils as Potential Periosteotics

**Author(s):** Popa, M; Marutescu, L; Oprea, E; Bleotu, C; Kamerzan, C; **Chifiriuc, MC**; Pircalabioru, GG

**Source:** ANTIBIOTICS-BASEL **Volume:** 9 **Issue:** 7 **Article Number:** 428

**DOI:** 10.3390/antibiotics9070428 **Published:** JUL 2020

**ISSN:** 2079-6382

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Beneficial effects of food supplements based on hydrolyzed collagen for skin care (Review)

**Author(s):** Lupu, MA; Pircalabioru, GG; **Chifiriuc, MC**; Albuiescu, R; Tanase, C

**Source:** EXPERIMENTAL AND THERAPEUTIC

MEDICINE **Volume:** 20 **Issue:** 1 **Pages:** 12-17

**DOI:** 10.3892/etm.2019.8342 **Published:** JUL 2020

**ISSN:** 1792-0981

**eISSN:** 1792-1015

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IN SILICO AND EXPERIMENTAL STUDIES FOR THE DEVELOPMENT OF NOVEL OXAZOL-5(4H)-ONES WITH PHARMACOLOGICAL POTENTIAL

**Author(s):** Rosca, EV; Apostol, TV; **Chifiriuc, MC**; Pircalabioru, GG; Draghici, C; Socea, LI; Olaru, OT; Nitulescu, GM; Pahontu, EM; Hrubaru, M; Barbuceanu, SF

**Source:** FARMACIA **Volume:** 68 **Issue:** 3 **Pages:** 453-462

**DOI:** 10.31925/farmacia.2020.3.10 **Published:** MAY-JUN 2020

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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Synthesis and Characterization of New Fluoro/Trifluoromethyl-Substituted Acylthiourea Derivatives with Promising Activity against Planktonic and Biofilm-Embedded Microbial Cells

**Author(s):** Limban, C; Nuta, DC; Missir, AV; Roman, R; Caproiu, MT; Dumitrascu, F; Pintilie, L; Stefaniu, A; **Chifiriuc, MC**; Popa, M; Zarafu, I; Arsene, AL; Pirvu, CED; Udeanu, DI; Papacocea, IR

**Source:** PROCESSES **Volume:** 8 **Issue:** 5 **Article Number:** 503

**DOI:** 10.3390/pr8050503 **Published:** MAY 2020

**eISSN:** 2227-9717

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Antibiotic resistance determinants of Acinetobacter baumannii strains isolated from nosocomial infections

**Author(s):** Haitham, AN; Ali, A; **Chifiriuc, MC**; Mihaescu, G; Alshwaikh, RMA; Mohsin, S; Mohammed, HB; Pircalabioru, GG; Gheorghe, I

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 25 **Issue:** 3 **Pages:** 1658-1665

**DOI:** 10.25083/rbl/25.3/1658.1665 **Published:** MAY-JUN 2020

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Synthesis, physico-chemical characterization and bioevaluation of Ni(II), Pd(II), and Pt(II) complexes with 1-(o-tolyl)biguanide: Antimicrobial and antitumor studies

**Author(s):** Nuta, I; Badea, M; **Chifiriuc, MC**; Bleotu, C; Popa, M; Daniliuc, CG; Olar, R  
**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 34 **Issue:** 9 **Article Number:** e5807  
**DOI:** 10.1002/aoc.5807 **Published:** SEP 2020  
**ISSN:** 0268-2605  
**eISSN:** 1099-0739

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Antimicrobial and Cytocompatible Bovine Hydroxyapatite-Alumina-Zeolite Composite Coatings Synthesized by Pulsed Laser Deposition from Low-Cost Sustainable Natural Resources

**Author(s):** Popescu-Pelin, G; Ristoscu, C; Duta, L; Stan, GE; Pasuk, I; Tite, T; Stan, MS; Bleotu, C; Popa, M; **Chifiriuc, MC**; Oktar, FN; Nicarel, A; Mihailescu, IN  
**Source:** ACS SUSTAINABLE CHEMISTRY & ENGINEERING **Volume:** 8 **Issue:** 10  
**Pages:** 4026-4036 **DOI:** 10.1021/acssuschemeng.9b05031 **Published:** MAR 16 2020  
**ISSN:** 2168-0485

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The impact of climate change on agricultural productivity in Romania. A country-scale assessment based on the relationship between climatic water balance and maize yields in recent decades

**Author(s):** Pravalie, R; Sirodoev, I; Patriche, C; Rosca, B; Piticar, A; Bandoc, G; Sfica, L; Tiscovschi, A; Dumitrascu, M; **Chifiriuc, C**; Manoiu, V; Iordache, S  
**Source:** AGRICULTURAL SYSTEMS **Volume:** 179 **Article Number:** 102767  
**DOI:** 10.1016/j.agry.2019.102767 **Published:** MAR 2020  
**ISSN:** 0308-521X  
**eISSN:** 1873-2267

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In Vitro Adherence and Anti-pathogens Effect of a Co-culture of Lactobacillus Plantarum and Lactobacillus Casei Cultivated in a Minimal Media Supplemented with Aloe Vera

**Author(s):** Boev, M; Bahrim, G; **Chifiriuc, M**; Ditu, L  
**Source:** JOURNAL OF CLINICAL GASTROENTEROLOGY **Volume:** 54 **Pages:** S30-S31  
**Supplement:** 1 **Published:** FEB 2020  
**ISSN:** 0192-0790  
**eISSN:** 1539-2031

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Aminopropyl-silica functionalized with halogen-reactive compounds for antimicrobial applications

**Author(s):** Zarafu, I; Al Taweel, AAJ; Limban, C; Popa, M; Marutescu, L; **Chifiriuc, MC**; Pircalabioru, GG; Culita, D; Ghica, C; Ionita, P  
**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 241 **Article Number:** 122353  
**DOI:** 10.1016/j.matchemphys.2019.122353 **Published:** FEB 1 2020  
**ISSN:** 0254-0584  
**eISSN:** 1879-3312

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Synthesis, physico-chemical characterization, antimicrobial activity and toxicological features of Ag-ZnO nanoparticles

**Author(s):** Burlibasa, L; **Chifiriuc, MC**; Lungu, MV; Lungulescu, EM; Mitrea, S; Sbarcea, G; Popa, M; Marutescu, L; Constantin, N; Bleotu, C; Hermenean, A  
**Source:** ARABIAN JOURNAL OF CHEMISTRY **Volume:** 13 **Issue:** 2 **Pages:** 4180-4197  
**DOI:** 10.1016/j.arabjc.2019.06.015 **Published:** FEB 2020  
**ISSN:** 1878-5352  
**eISSN:** 1878-5379

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Multifunctional Hydroxyapatite Coated with Artemisia absinthium Composites

**Author(s):** Raita, MS; Iconaru, SL; Groza, A; Cimpeanu, C; Predoi, G; Ghegoiu, L; Badea, ML; **Chifiriuc, MC**; Marutescu, L; Trusca, R; Furnaris, CF; Turculeț, CS; Enache, DV; Predoi, D  
**Source:** MOLECULES **Volume:** 25 **Issue:** 2 **Article Number:** 413

**DOI:** 10.3390/molecules25020413 **Published:** JAN 2 2020

**eISSN:** 1420-3049

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Design, Synthesis and In Vitro Characterization of Novel Antimicrobial Agents Based on 6-Chloro-9H-carbazol Derivatives and 1,3,4-Oxadiazole Scaffolds

**Author(s):** Telehoiu, ATB; Nuta, DC; Caproiu, MT; Dumitrascu, F; Zarafu, I; Ionita, P; Badiceanu, CD; Avram, S; **Chifiriuc, MC**; Bleotu, C; Limban, C

**Source:** MOLECULES **Volume:** 25 **Issue:** 2 **Article Number:** 266

**DOI:** 10.3390/molecules25020266 **Published:** JAN 2 2020

**eISSN:** 1420-3049

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Do wastewater treatment plants increase antibiotic resistant bacteria or genes in the environment? Protocol for a systematic review

**Author(s):** Rodriguez-Molina, D; Mang, P; Schmitt, H; **Chifiriuc, MC**; Radon, K; Wengenroth, L

**Source:** SYSTEMATIC REVIEWS **Volume:** 8 **Issue:** 1 **Article Number:** 304

**DOI:** 10.1186/s13643-019-1236-9 **Published:** DEC 5 2019

**eISSN:** 2046-4053

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Preparations of Silver/Montmorillonite Biocomposite Multilayers and Their Antifungal Activity

**Author(s):** Iconaru, SL; Groza, A; Stan, GE; Predoi, D; Gaiaschi, S; Trusca, R; **Chifiriuc, CM**; Marutescu, L; Tite, T; Stanciu, GA; Hristu, R; Ghegoiu, L; Badea, ML; Turculet, CS; Ganciu, M; Chapon, P

**Source:** COATINGS **Volume:** 9 **Issue:** 12 **Article Number:** 817

**DOI:** 10.3390/coatings9120817 **Published:** DEC 2019

**eISSN:** 2079-6412

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Design, Synthesis and Biological Evaluation of New Piperazin-4-yl-(acetyl-thiazolidine-2,4-dione) Norfloxacin Analogues as Antimicrobial Agents

**Author(s):** Marc, G; Araniciu, C; Oniga, SD); Vlase, L; Pirnau, A; Nadas, GC; Novac, CS; Matei, IA (Matei, Ioana Adriana); **Chifiriuc, MC**; Marutescu, L; Oniga, O (Oniga, Ovidiu)

**Source:** MOLECULES **Volume:** 24 **Issue:** 21 **Article Number:** 3959

**DOI:** 10.3390/molecules24213959 **Published:** NOV 2019

**eISSN:** 1420-3049

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Fluorescent coumarin-modified mesoporous SBA-15 nanocomposite: Physico-chemical characterization and interaction with prokaryotic and eukaryotic cells

**Author(s):** Tudose, M; Culita, DC; Voicescu, M; Musuc, AM); Kuncser, AC; Bleotu, C; Popa, M; Marutescu, L; **Chifiriuc, MC**; Nicolescu, M; Deleanu, C

**Source:** MICROPOROUS AND MESOPOROUS MATERIALS **Volume:** 288 **Article Number:** 109583

**DOI:** 10.1016/j.micromeso.2019.109583 **Published:** NOV 1 2019

**ISSN:** 1387-1811

**eISSN:** 1873-3093

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Self-assembled zinc oxide hierarchical structures with enhanced antibacterial properties from stacked chain-like zinc oxalate compounds

**Author(s):** Patrinoiu, G; Dumitru, R; Culita, DC; Munteanu, C; Birjega, R; Calderon-Moreno, JM; Cucos, A; Pelinescu, D; **Chifiriuc, MC**; Bleotu, C; Carp, O

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 552 **Pages:** 258-270

**DOI:** 10.1016/j.jcis.2019.05.051 **Published:** SEP 15 2019

**ISSN:** 0021-9797

**eISSN:** 1095-7103

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Molecular characterization based on Internal Transcribed Spacer (ITS) marker sequence of fungal strains isolated from heritage ethnographic textiles

**Author(s):** Radulescu, HC; Giworghe, I; Gradisteanu, G; Ispas, A; Popescu, C; Rosu, G; **Chifiriuc, MC**; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 5 **Pages:** 906-912

**DOI:** 10.25083/rbl/24.5/906.912 **Published:** SEP-OCT 2019

**ISSN:** 1224-5984

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Peripheral immune cell markers in children with recurrent respiratory infections in the absence of primary immunodeficiency

**Author(s):** Munteanu, AN; Surcel, M; Huica, RI; Isvoranu, G; Constantin, C; Pirvu, IR; **Chifiriuc, C**; Ulmeanu, C; Ursaciuc, C; Neagu, M

**Source:** EXPERIMENTAL AND THERAPEUTIC MEDICINE **Volume:** 18 **Issue:** 3

**Pages:** 1693-1700 **DOI:** 10.3892/etm.2019.7714 **Published:** SEP 2019

**ISSN:** 1792-0981

**eISSN:** 1792-1015

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Reduced graphene oxide/TiO<sub>2</sub> nanocomposites coating of cotton fabrics with antibacterial and self-cleaning properties

**Author(s):** Stan, MS; Nica, IC; Popa, M; **Chifiriuc, MC**; Iordache, O; Dumitrescu, I; Diamandescu, L; Dinischiotu, A

**Source:** JOURNAL OF INDUSTRIAL TEXTILES **Volume:** 49 **Issue:** 3 **Pages:** 277-293

**DOI:** 10.1177/1528083718779447 **Published:** SEP 2019

**ISSN:** 1528-0837

**eISSN:** 1530-8057

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Electrospun Polyethylene Terephthalate Nanofibers Loaded with Silver Nanoparticles: Novel Approach in Anti-Infective Therapy

**Author(s):** Grumezescu, AM; Stoica, AE; Dima-Balcescu, MS; Chircov, C; Gharbia, S; Balta, C; Rosu, M; Herman, H; Holban, AM; Ficai, A; Vasile, BS; Andronescu, E; **Chifiriuc, MC**; Hermenean, A

**Source:** JOURNAL OF CLINICAL MEDICINE **Volume:** 8 **Issue:** 7 **Article Number:** 1039

**DOI:** 10.3390/jcm8071039 **Published:** JUL 2019

**eISSN:** 2077-0383

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Evaluating the biological potential of some new cobalt (II) complexes with acrylate and benzimidazole derivatives

**Author(s):** Vlaicu, ID; Olar, R; Maxim, C; **Chifiriuc, MC**; Bleotu, C; Stanica, N; Scaeteanu, GV; Dulea, C; Avram, S; Badea, M

**Source:** APPLIED ORGANOMETALLIC CHEMISTRY **Volume:** 33 **Issue:** 7 **Article Number:** e4976

**DOI:** 10.1002/aoc.4976 **Published:** JUL 2019

**ISSN:** 0268-2605

**eISSN:** 1099-0739

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PLGA-GENTAMICIN BIOCOMPOSITE MATERIALS WITH POTENTIAL ANTIMICROBIAL APPLICATIONS IN ORTHOPEDICS

**Author(s):** Ciocilteu, MV; Podgoreanu, P; Delcaru, C; **Chifiriuc, MC**; Manda, CV; Bitu, A; Popescu, M; Amzoiu, E; Croitoru, O; Bleotu, C; Bostan, M; Neamtu, J

**Source:** FARMACIA **Volume:** 67 **Issue:** 4 **Pages:** 580-586

**DOI:** 10.31925/farmacia.2019.4.4 **Published:** JUL-AUG 2019

**ISSN:** 0014-8237

**eISSN:** 2065-0019



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Synthesis and Antimicrobial Assessment of Some New 2-(Thiazol-5-yl)-1,3,4-oxadiazoles

**Author(s):** Araniciu, C; Oniga, SD; Stoica, CI; **Chifiriuc, MC**; Popa, M; Vlase, L; Palage, M; Oniga, O

**Source:** REVISTA DE CHIMIE **Volume:** 70 **Issue:** 6 **Pages:** 1996-1999 **Published:** JUN 2019

**ISSN:** 0034-7752

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Peppermint Essential Oil-Doped Hydroxyapatite Nanoparticles with Antimicrobial Properties

**Author(s):** Badea, ML; Iconaru, SL; Groza, A; **Chifiriuc, MC**; Beuran, M; Predoi, D

**Source:** MOLECULES **Volume:** 24 **Issue:** 11 **Article Number:** 2169

**DOI:** 10.3390/molecules24112169 **Published:** JUN 1 2019

**eISSN:** 1420-3049

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In vitro antimicrobial efficacy of laser exposed chlorpromazine against Gram-positive bacteria in planktonic and biofilm growth state

**Author(s):** Tozar, T; Nastasa, V; Stoicu, A; **Chifiriuc, MC**; Popa, M; Kamerzan, C; Pascu, ML

**Source:** MICROBIAL PATHOGENESIS **Volume:** 129 **Pages:** 250-256

**DOI:** 10.1016/j.micpath.2019.02.012 **Published:** APR 2019

**ISSN:** 0882-4010

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Eco-friendly synthesized spherical ZnO materials: Effect of the core-shell to solid morphology transition on antimicrobial activity

**Author(s):** Patrinoiu, G; Hussien, MD; Calderon-Moreno, JM; Atkinson, I; Musuc, AM; Ion, RN; Cimpean, A; **Chifiriuc, MC**; Carp, O

**Source:** MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 97 **Pages:** 438-450

**DOI:** 10.1016/j.msec.2018.12.063 **Published:** APR 2019

**ISSN:** 0928-4931

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Thermal, spectral and biological characterisation of copper(II) complexes with isoniazid-based hydrazones

**Author(s):** Zarafu, I; Badea, M; Ionita, G; **Chifiriuc, MC**; Bleotu, C; Popa, M; Ionita, P; Tatibouet, A; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 136 **Issue:** 5 **Pages:** 1977-1987

**DOI:** 10.1007/s10973-018-7853-z **Published:** JUN 2019

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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Novel hydrogels based on collagen and ZnO nanoparticles with antibacterial activity for improved wound dressings

**Author(s):** Neacsu, IA; Melente, AE; Holban, AM; Ficai, A; Ditu, LM; Kamerzan, CM; Tihauan, BM; Nicoara, AI; Bezirtzoglou, E; **Chifiriuc, MC**; Pircalabioru, GG

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 24 **Issue:** 2 **Pages:** 317-323

**DOI:** 10.25083/rbl/24.2/317.323 **Published:** MAR-APR 2019

**ISSN:** 1224-5984

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Influence of Ag, Au and Pd noble metals doping on structural, optical and antimicrobial properties of zinc oxide and titanium dioxide nanomaterials

**Author(s):** Pathak, TK; Kroon, RE; Craciun, V; Popa, M; **Chifiriuc, MC**; Swart, HC

**Source:** HELIYON **Volume:** 5 **Issue:** 3 **Article Number:** e01333

**DOI:** 10.1016/j.heliyon.2019.e01333 **Published:** MAR 2019

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Successful Release of Voriconazole and Flavonoids from MAPLE Deposited Bioactive Surfaces  
**Author(s):** Negut, I; Visan, AI; Popescu, C; Cristescu, R; Ficai, A; Grumezescu, AM; **Chifiriuc, MC**; Boehm, RD; Yamaleyeva, D; Taylor, M; Narayan, RJ; Chrisey, DB  
**Source:** APPLIED SCIENCES-BASEL **Volume:** 9 **Issue:** 4 **Article Number:** 786  
**DOI:** 10.3390/app9040786 **Published:** FEB 2 2019  
**eISSN:** 2076-3417

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Multifunctional ZnO materials prepared by a versatile green carbohydrate assisted combustion method for environmental remediation applications  
**Author(s):** Ene, CD; Patrinoiu, G; Munteanu, C; Ene, R; **Chifiriuc, MC**; Carp, O  
**Source:** CERAMICS INTERNATIONAL **Volume:** 45 **Issue:** 2 **Pages:** 2295-2302  
**DOI:** 10.1016/j.ceramint.2018.10.144 **Part:** A **Published:** FEB 1 2019  
**ISSN:** 0272-8842  
**eISSN:** 1873-3956

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Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE  
**Author(s):** Mihailescu, N; Haskoylu, ME; Ristoscu, C; Bostan, MS; Sopronyi, M; Eroglu, MS; **Chifiriuc, MC**; Mustaciosu, CC; Axente, E; Oner, ET; Mihailescu, IN  
**Source:** APPLIED SURFACE SCIENCE **Volume:** 466 **Pages:** 628-636  
**DOI:** 10.1016/j.apsusc.2018.10.077 **Published:** FEB 1 2019  
**ISSN:** 0169-4332  
**eISSN:** 1873-5584

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Structure-grain size-synthesis route of silver nanoparticles: a correlation with the cytotoxic effect  
**Author(s):** Vasile, OR; Andronescu, E; Trusca, R; Vasile, E; Holban, AM; **Chifiriuc, MC**; Iordache, F; Maniu, H; Bleotu, C; Neacsu, IA; Vasile, BS  
**Source:** ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY  
**Volume:** 60 **Issue:** 2 **Pages:** 617-628 **Published:** 2019 **ISSN:** 1220-0522

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Design, Synthesis and Biopharmacological Profile Evaluation of New 2-((4-Chlorophenoxy)methyl)-N-(Arylcarbamoithioyl)Benzamides with Broad Spectrum Antifungal Activity  
**Author(s):** Limban, C ; Ditu, LM ; Marutescu, L ; Missir, AV; **Chifiriuc, MC**; Caproiu, MT ; Morusciag, L ; Chirita, C ; Udrea, AM ; Nuta, DC ; Avram, S  
**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 23 **Issue:** 12 **Pages:** 1365-1377  
**DOI:** 10.2174/1385272823666190621162950 **Published:** 2019  
**ISSN:** 1385-2728  
**eISSN:** 1875-5348

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Snapshot of Phylogenetic Groups, Virulence, and Resistance Markers in Escherichia coli Uropathogenic Strains Isolated from Outpatients with Urinary Tract Infections in Bucharest, Romania  
**Author(s):** Cristea, VC; Gheorghe, I; Barbu, IC; Popa, LI; Ispas, B; Grigore, GA; Bucatariu, I; Popa, GL; Angelescu, MC ; Velican, A ; Marutescu, L; Popa, M; **Chifiriuc, MC** ; Popa, IM  
**Source:** BIOMED RESEARCH INTERNATIONAL **Volume:** 2019 **Article Number:** 5712371  
**DOI:** 10.1155/2019/5712371 **Published:** 2019  
**ISSN:** 2314-6133  
**eISSN:** 2314-6141

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Microbiota signatures in type-2 diabetic patients with chronic kidney disease - A Pilot Study  
**Author(s):** Gradisteanu, GP; Stoica, RA; Petcu, L; Picu, A; Suceveanu, AP; Salmen, T; Stefan, DS;

Serafinceanu, C; **Chifiriuc, MC**; Stoian, AP

**Source:** JOURNAL OF MIND AND MEDICAL SCIENCES **Volume:** 6 **Issue:** 1 **Pages:** 130-136

**Article Number:** 20 **DOI:** 10.22543/7674.61.P130136 **Published:** 2019

**ISSN:** 2392-7674

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Designing cotton fibers impregnated with photocatalytic graphene oxide/Fe, N-doped TiO<sub>2</sub> particles as prospective industrial self-cleaning and biocompatible textiles

**Author(s):** Stan, MS; Badea, MA; Pircalabioru, GG; **Chifiriuc, MC**; Diamandescu, L; Dumitrescu, I; Trica, B; Lambert, C; Dinischiotu, A)

**Source:** MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 94 **Pages:** 318-332

**DOI:** 10.1016/j.msec.2018.09.046 **Published:** JAN 1 2019

**ISSN:** 0928-4931

**eISSN:** 1873-0191

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Anticancer effects of curcumin in luminal B and HER2 breast cancer cell line models

**Author(s):** Filippi, A; Maru, N; **Chifiriuc, MC**; Grigore, R; Ganea, C; Mocanu, MM

**Source:** ROMANIAN BIOTECHNOLOGICAL

LETTERS **Volume:** 24 **Issue:** 1 **Pages:** 168-175

**DOI:** 10.25083/rbl/24.1/168.175 **Published:** JAN-FEB 2019

**ISSN:** 1224-5984

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Pulsed Laser Deposited Biocompatible Lithium-Doped Hydroxyapatite Coatings with Antimicrobial Activity

**Author(s):** Duta, L; **Chifiriuc, MC**; Popescu-Pelin, G; Bleotu, C; Gradisteanu, G; Anastasescu, M; Achim, A; Popescu, A

**Source:** COATINGS **Volume:** 9 **Issue:** 1 **Article Number:** 54

**DOI:** 10.3390/coatings9010054 **Published:** JAN 2019

**ISSN:** 2079-6412

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X-ray Crystal Structure, Geometric Isomerism, and Antimicrobial Activity of New Copper(II) Carboxylate Complexes with Imidazole Derivatives

**Author(s):** Vlaicu, ID; Borodi, G; Scaeteanu, GV; **Chifiriuc, MC**; Marutescu, L; Popa, M; Stefan, M; Mercioniu, IF; Maurer, M; Daniliuc, CG; Olar, R; Badea, M

**Source:** MOLECULES **Volume:** 23 **Issue:** 12 **Article Number:** 3253

**DOI:** 10.3390/molecules23123253 **Published:** DEC 2018

**ISSN:** 1420-3049

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Spectral, thermal and biological characterization of complexes with a Schiff base bearing triazole moiety as potential antimicrobial species

**Author(s):** Calu, L; Badea, M; Korosin, NC; **Chifiriuc, MC**; Bleotu, C; Stanica, N; Silvestro, L; Maurer, M; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 134 **Issue:** 3 **Pages:** 1839-1850 **DOI:** 10.1007/s10973-018-7871-x

**Published:** DEC 2018

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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Synthesis, thermal, spectral, antimicrobial and cytotoxicity profile of the Schiff bases bearing pyrazolone moiety and their Cu(II) complexes

**Author(s):** Zarafu, I; Olar, R; **Chifiriuc, MC**; Bleotu, C; Ionita, P; Multescu, M; Ionita, G; Gradisteanu, G; Tatibouet, A; Badea, M

**Source:** JOURNAL OF THERMAL ANALYSIS AND

**CALORIMETRY** Volume: 134 Issue: 3 Pages: 1851-1861 DOI: 10.1007/s10973-018-7681-1  
**Published:** DEC 2018  
**ISSN:** 1388-6150  
**eISSN:** 1588-2926

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Zinc Oxide Spherical-Shaped Nanostructures: Investigation of Surface Reactivity and Interactions with Microbial and Mammalian Cells

**Author(s):** Visinescu, D; Hussien, MD; Moreno, JC; Negrea, R; Birjega, R; Somacescu, S; Ene, CD; **Chifiriuc, MC**; Popa, M; Stan, MS; Carp, O

**Source:** LANGMUIR Volume: 34 Issue: 45 Pages: 13638-13651

**DOI:** 10.1021/acs.langmuir.8b02528 **Published:** NOV 13 2018

**ISSN:** 0743-7463

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An enzyme-free hydrogen peroxide sensor for evaluation of probiotic potential of *Enterococcus faecium*

**Author(s):** Braik, M; Zamfir, LG; Rotariu, L; Curutiu, C; **Chifiriuc, MC**; Ben Ali, M; Bala, C

**Source:** SENSORS AND ACTUATORS B-CHEMICAL Volume: 273 Pages: 298-304

**DOI:** 10.1016/j.snb.2018.06.057 **Published:** NOV 10 2018

**eISSN:** 0925-4005

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Comparative Analysis of the Native Microbiota in gammaCop Mutant versus Wild-Type Genetic Background of *Drosophila melanogaster*

**Author(s):** Barbu, IC; Ratiu, AC; Florescu, AM; **Chifiriuc, MC**; Ecovoiu, AA

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS Volume: 23 Issue: 6 Pages: 14235-14243

**DOI:** 10.26327/RBL2018.243 **Published:** NOV-DEC 2018

**ISSN:** 1224-5984

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N-(1-ADAMANTYLCARBAMOTHIOYL)BENZAMIDES: SYNTHESIS, BIOLOGICAL EVALUATION AND ADME PREDICTIONS

**Author(s):** Gurgu, H; Stefanescu, E; Nuta, DC; Caproiu, MT; Dumitrascu, F; **Chifiriuc, MC**; Bleotu, C; Nitulescu, GM; Radulescu, FS; Limban, C

**Source:** FARMACIA Volume: 66 Issue: 6 Pages: 963-971 **DOI:** 10.31925/FARMACIA.2018.6.6

**Published:** NOV-DEC 2018

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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**Author(s):** Jassam, N; Lake, J; Dabrowska, M; Queralto, J; Rizos, D; Lichtinghagen, R; Baum, H; Ceriotti, F; O'Mullane, J; Homsak, E; Charilaou, C; Ohlson, M; Rako, I; Vitkus, D; Kovac, G; Verschuure, P; Racek, J; **Chifiriuc, MC**; Wieringa, G

**Source:** CLINICAL CHEMISTRY AND LABORATORY

MEDICINE Volume: 56 Issue: 11 Pages: 1846-1863 **DOI:** 10.1515/cclm-2018-0344

**Published:** NOV 2018

**ISSN:** 1434-6621

**eISSN:** 1437-4331

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Chemical composition, antimicrobial and antibiofilm efficacy of *C. limon* and *L. angustifolia* EOs and of their mixtures against *Staphylococcus epidermidis* clinical strains

**Author(s):** Danila, E; Moldovan, Z; Popa, M; **Chifiriuc, MC**; Kaya, AD; Kaya, MA

**Source:** INDUSTRIAL CROPS AND PRODUCTS Volume: 122 Pages: 483-492

**DOI:** 10.1016/j.indcrop.2018.06.019 **Published:** OCT 15 2018

**ISSN:** 0926-6690

**eISSN:** 1872-633X

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Impact of *Pseudomonas aeruginosa* quorum sensing signaling molecules on adhesion and inflammatory markers in endothelial cells

**Author(s):** Curutiu, C; Iordache, F; Lazar, V; Pisoschi, AM; Pop, A; **Chifiriuc, MC**; Hoban, AM

**Source:** BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY **Volume:** 14 **Pages:** 2580-2588

**DOI:** 10.3762/bjoc.14.235 **Published:** OCT 5 2018

**ISSN:** 1860-5397

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New N-(oxazolylmethyl)-thiazolidinedione Active against *Candida albicans* Biofilm: Potential Als Proteins Inhibitors

**Author(s):** Marc, G; Aranicu, C; Oniga, SD; Vlase, L; Pirnau, A; Duma, M; Marutescu, L;

**Chifiriuc, MC**; Oniga, O

**Source:** MOLECULES **Volume:** 23 **Issue:** 10 **Article**

**Number:** 2522 **DOI:** 10.3390/molecules23102522 **Published:** OCT 2018

**eISSN:** 1420-3049

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New biologically active mixed-ligand Co(II) and Ni(II) complexes of enrofloxacin

**Author(s):** Reiss, A; Cioatera, N; **Chifiriuc, MC**; Munteanu, G; Ganescu, A; Dabuleanu, I; Avram, G; Spinu, CI; Rotaru, P

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 134 **Issue:** 1 **Pages:** 527-541 **DOI:** 10.1007/s10973-018-6994-4

**Published:** OCT 2018

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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Thermal behaviour of some biological active perchlorate complexes with a triazolopyrimidine derivative

**Author(s):** Badea, M; Calu, L; Korosin, NC; David, IG; **Chifiriuc, MC**; Bleotu, C; Ionita, G; Silvestro, L; Maurer, M; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 134 **Issue:** 1 **Pages:** 665-677 **DOI:** 10.1007/s10973-018-7134-x

**Published:** OCT 2018

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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Hybrid nanocarriers based on PLGA-vegetable oil: A novel approach for high lipophilic drug delivery

**Author(s):** Ghitman, J; Stan, R; Cecoltan, S; **Chifiriuc, MC**; Iovu, H)

**Source:** JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY **Volume:** 46

**Pages:** 162-172 **DOI:** 10.1016/j.jddst.2018.05.012 **Published:** AUG 2018

**ISSN:** 1773-2247

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ZnO RADIAL MORPHOLOGIES WITH HIGH ANTI-BIOFILM AND ANTIBACTERIAL ACTIVITY OBTAINED BY A POLYMER-ASSISTED HYDROTHERMAL SYNTHESIS

**Author(s):** Stan, A; Barjega, R; **Chifiriuc, CM**; Carp, O

**Source:** REVUE ROUMAINE DE CHIMIE **Volume:** 63 **Issue:** 7-8 **Pages:** 719-+

**Published:** JUL-AUG 2018

**ISSN:** 0035-3930

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ANTI-BIOFILM ACTIVITY EVALUATION AND MOLECULAR DOCKING STUDY OF

SOME 2(3-PYRIDYL)-THIAZOLYL-1,3,4-OXADIAZOLINES

**Author(s):** Araniciu, C; Oniga, O; Marc, G; Palage, MD; Marutescu, L; **Chifiriuc, MC**; Stoica, CI; Ionut, I; Oniga, SD

**Source:** FARMACIA **Volume:** 66 **Issue:** 4 **Pages:** 627-634

**DOI:** 10.31925/farmacia.2018.4.11 **Published:** JUL-AUG 2018

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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New bio-active, antimicrobial and adherent coatings of nanostructured carbon double-reinforced with silver and silicon by Matrix-Assisted Pulsed Laser Evaporation for medical applications

**Author(s):** Duta, L; Ristoscu, C; Stan, GE; Husanu, MA; Besleaga, C; **Chifiriuc, MC**; Lazar, V; Bleotu, C; Miculescu, F; Mihailescu, N; Axente, E; Badiceanu, M; Bociaga, D; Mihailescu, IN

**Source:** APPLIED SURFACE SCIENCE **Volume:** 441 **Pages:** 871-883

**DOI:** 10.1016/j.apsusc.2018.02.047 **Published:** MAY 31 2018

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Synthesis, spectroscopic characterization, DFT study and antimicrobial activity of novel alkylaminopyrazole derivatives

**Author(s):** Zalaru, C; Dumitrascu, F; Draghici, C; Tarcomnicu, I; Tatia, R; Moldovan, L; **Chifiriuc, MC**; Lazar, V; Marinescu, M; Nitulescu, GM; Ferbinteanu, M

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1156 **Pages:** 12-21

**DOI:** 10.1016/j.molstruc.2017.11.073 **Published:** MAR 15 2018

**ISSN:** 0022-2860

**eISSN:** 1872-8014

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New metal(II) complexes with ceftazidime Schiff base

**Author(s):** Reiss, A; **Chifiriuc, MC**; Amzoiu, E; Cioatera, N; Dabuleanu, I; Rotaru, P (Rotaru, Petre)

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 131 **Issue:** 3 **Pages:** 2073-2085 **DOI:** 10.1007/s10973-017-6832-0

**Published:** MAR 2018

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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NEW DERIVATIVES OF 2-THIOPHENE CARBOXYLIC ACID: SYNTHESIS, STRUCTURE AND ANTIMICROBIAL STUDIES

**Author(s):** Badiceanu, CD; Nuta, DC; Missir, AV; Hrubaru, M; Delcaru, C; Ditu, LM; **Chifiriuc, MC**; Limban, C

**Source:** FARMACIA **Volume:** 66 **Issue:** 2 **Pages:** 237-242 **Published:** MAR-APR 2018

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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Synthesis, Structural Characterization, Antimicrobial Activity, and In Vitro Biocompatibility of New Unsaturated Carboxylate Complexes with 2,2-Bipyridine

**Author(s):** Scaeteanu, GV; **Chifiriuc, MC**; Bleotu, C; Kamerzan, C; Marutescu, L; Daniliuc, CG; Maxim, C; Calu, L; Olar, R ; Badea, M

**Source:** MOLECULES **Volume:** 23 **Issue:** 1 **Article Number:** 157

**DOI:** 10.3390/molecules23010157 **Published:** JAN 2018

**ISSN:** 1420-3049

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SYNTHESIS, STRUCTURAL, PHISICO-CHEMICAL CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY SCREENING OF NEW THIOUREA DERIVATIVES

**Author(s):** Badiceanu, CD; Nuta, DC; Missir, AV; Hrubaru, M; Delcaru, C; Ditu, LM; **Chifiriuc,**

**MC**; Limban, C

**Source:** FARMACIA **Volume:** 66 **Issue:** 1 **Pages:** 149-156 **Published:** JAN-FEB 2018

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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Expression profiles of genes involved in mannose metabolism are modulated during experimental infection of *Drosophila melanogaster* males with *Pseudomonas aeruginosa*

**Author(s):** Mihalache, MR; Ratiu, AC; Neagu, A; Lazar, V; **Chifiriuc, MC**; Al Ecovoiu, A

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 23 **Issue:** 1 **Pages:** 13225-13234

**Published:** JAN-FEB 2018

**ISSN:** 1224-5984

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Antioxidant and antifungal activity of Romanian propolis

**Author(s):** Stan, T; Teodor, ED; Gatea, F; **Chifiriuc, MC**; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 6 **Pages:** 13116-13124

**Published:** NOV-DEC 2017

**ISSN:** 1224-5984

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New 2-Phenylthiazoles as Potential Sortase A Inhibitors: Synthesis, Biological Evaluation and Molecular Docking

**Author(s):** Oniga, SD; Araniciu, C; Palage, MD; Popa, M; **Chifiriuc, MC**; Marc, G; Pirnau, A; Stoica, CI; Lagoudis, I; Dragoumis, T; Oniga, O

**Source:** MOLECULES **Volume:** 22 **Issue:** 11 **Article Number:** 1827

**DOI:** 10.3390/molecules22111827 **Published:** NOV 2017

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Assessment the Activity of Some Enzymes and Antibiotic Substances Sensitivity on Pathogenic Bacteria Species

**Author(s):** Sarbu, I; Vassu, T; **Chifiriuc, MC**; Bucur, M; Stoica, I; Stefana, P; Rusu, E; Moldovan, H; Pelinescu, D

**Source:** REVISTA DE CHIMIE **Volume:** 68 **Issue:** 12 **Pages:** 3015-3021 **Published:** DEC 2017

**ISSN:** 0034-7752

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Reduction of the clonogenic potential and collapse of the mitochondrial membrane potential in A-431 epidermoid carcinoma cell line induced by curcumin

**Author(s):** Ciolac, OA; Filippi, A; Maru, N; Popa, M; **Chifiriuc, MC**; Ganea, C; Mocanu, MM

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 6 **Pages:** 13068-13075

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**ISSN:** 1224-5984

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Beta-lactam and quinolone resistance markers in uropathogenic strains isolated from renal transplant recipients

**Author(s):** Trusca, BS; Gheorghe, I; Marutescu, L; Curutiu, C; Marinescu, F; Ghita, CM; Borcan, E; Tuica, L; Minciuna, V; Gherghin, HE; **Chifiriuc, MC**; Lazar, V

**Source:** REVISTA ROMANA DE MEDICINA DE LABORATOR **Volume:** 25 **Issue:** 4

**Pages:** 365-373 **DOI:** 10.1515/rrlm-2017-0033 **Published:** OCT 2017

**ISSN:** 1841-6624

**eISSN:** 2284-5623

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Lipoic acid functionalized SiO<sub>2</sub>@Ag nanoparticles. Synthesis, characterization and evaluation of

biological activity

**Author(s):** Tudose, M; Culita, DC; Musuc, AM; Somacescu, S; Ghica, C; **Chifiriuc, MC**; Bleotu, C

**Source:** MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 79 **Pages:** 499-506 **DOI:** 10.1016/j.msec.2017.05.083

**Published:** OCT 1 2017

**ISSN:** 0928-4931

**eISSN:** 1873-0191

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Antimicrobial polycaprolactone/polyethylene glycol embedded lysozyme coatings of Ti implants for osteoblast functional properties in tissue engineering

**Author(s):** Visan, A; Cristescu, R; Stefan, N; Miroiu, M; Nita, C; Socol, M; Florica, C; Rasoga, O; Zgura, I; Sima, LE; Chiritoiu, M; **Chifiriuc, MC**; Holban, AM; Mihailescu, IN; Socol, G

**Source:** APPLIED SURFACE SCIENCE **Volume:** 417 **Special Issue:** SI **Pages:** 234-243

**DOI:** 10.1016/j.apsusc.2016.11.129 **Published:** SEP 30 2017

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Prevalence of heavy metal and antibiotic resistance in bacterial isolates from wastewater and receiving aquatic environments

**Author(s):** Marinescu, F; **Chifiriuc, MC**; Marutescu, L; Ilie, M; Savin, I; Anghel, AM; Marcus, I; Tociu, C; Marcu, E

**Source:** BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY **Volume:** 7 **Issue:** 5

**Pages:** 2140-2144 **Published:** SEP 15 2017

**ISSN:** 2069-5837

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Density functional theory molecular modeling and antimicrobial behaviour of selected 1,2,3,4,5,6,7,8-octahydroacridine-N(10)-oxides

**Author(s):** Marinescu, M; Cinteza, LO; Marton, GI; Marutescu, LG; **Chifiriuc, MC**; Constantinescu, C

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1144 **Pages:** 14-23

**DOI:** 10.1016/j.molstruc.2017.05.003 **Published:** SEP 15 2017

**ISSN:** 0022-2860

**eISSN:** 1872-8014

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SYNERGIC BENEFITS OF ARONIA MELANOCARPA ANTHOCYANIN - RICH EXTRACTS AND ANTIBIOTICS USED FOR URINARY TRACT INFECTIONS

**Author(s):** Dorneanu, R; Cioanca, O; **Chifiriuc, MC**; Albu, E; Tuchilus, C; Mircea, C; Salamon, I; Hancianu, M

**Source:** FARMACIA **Volume:** 65 **Issue:** 5 **Pages:** 778-783 **Published:** SEP-OCT 2017

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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ANTIBACTERIAL EFFICIENCY OF FIVE PROPOLIS EXTRACTS ON PLANKTONIC AND ADHERENT MICROBIAL STRAINS

**Author(s):** Hazem, A; Popescu, CV; Crisan, I; Popa, M; **Chifiriuc, MC**; Pircalabioru, GG; Lupuliasa, D

**Source:** FARMACIA **Volume:** 65 **Issue:** 5 **Pages:** 813-818 **Published:** SEP-OCT 2017

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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SYNTHESIS AND BIOLOGICAL EVALUATION OF NEW N-(2-DIMETHYLAMINOETHYL)-N-((UN)SUBSTITUTED PHENYL)-2-(4-METHYL/METHOXY-



PHENOXYMETHYL)BENZAMIDES

**Author(s):** Gurgu, H; Nuta, DC; Caproiu, MT; Draghici, C; **Chifiriuc, MC**; Missir, AV; Limban, C  
**Source:** FARMACIA **Volume:** 65 **Issue:** 4 **Pages:** 494-500 **Published:** JUL-AUG 2017  
**ISSN:** 0014-8237

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Development and Biocompatibility Evaluation of Photocatalytic TiO<sub>2</sub>/Reduced Graphene Oxide-Based Nanoparticles Designed for Self-Cleaning Purposes

**Author(s):** Nica, IC; Stan, MS; Popa, M; **Chifiriuc, MC**; Pircalabioru, GG; Lazar, V; Dumitrescu, I; Diamandescu, L; Feder, M; Baibarac, M; Cernea, M; Maraloiu, VA; Popescu, T; Dinischiotu, A  
**Source:** NANOMATERIALS **Volume:** 7 **Issue:** 9 **Article Number:** 279  
**DOI:** 10.3390/nano7090279 **Published:** SEP 2017  
**ISSN:** 2079-4991

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SYNTHESIS AND ANTIMICROBIAL ACTIVITY EVALUATION OF SOME NEW 2-(3-PYRIDIL)-THIAZOLYL-1,3,4-OXADIAZOLINES

**Author(s):** Oniga, SD; Araniciu, C; Stoica, CI; Palage, MD; Vlase, L; Pirnau, A; Marutescu, L;  
**Chifiriuc, MC**; Oniga, O  
**Source:** FARMACIA **Volume:** 65 **Issue:** 4 **Pages:** 501-507 **Published:** JUL-AUG 2017  
**ISSN:** 0014-8237  
**eISSN:** 2065-0019

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Synthesis, Physico-chemical Characterization, Crystal Structure and Influence on Microbial and Tumor Cells of Some Co(II) Complexes with 5,7-Dimethyl-1,2,4-triazolo[1,5-a]pyrimidine

**Author(s):** Marutescu, L; Calu, L; **Chifiriuc, MC**; Bleotu, C; Daniliuc, CG; Falcescu, D; Kamerzan, CM; Badea, M; Olar, R  
**Source:** MOLECULES **Volume:** 22 **Issue:** 7 **Article Number:** 1233 **DOI:** 10.3390/molecules22071233 **Published:** JUL 2017  
**eISSN:** 1420-3049

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Optimized silicon reinforcement of carbon coatings by pulsed laser technique for superior functional biomedical surfaces fabrication

**Author(s):** Mihailescu, IN; Bociaga, D; Popescu-Pelin, G; Stan, GE; Duta, L; Socol, G; **Chifiriuc, MC**; Bleotu, C; Lazar, V; Husanu, MA; Zgura, I; Miculescu, F; Negut, I; Hapenciuc, C  
**Source:** BIOFABRICATION **Volume:** 9 **Issue:** 2 **Article Number:** 025029 **DOI:** 10.1088/1758-5090/aa7076 **Published:** JUN 1 2017  
**ISSN:** 1758-5082  
**eISSN:** 1758-5090

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Host metabolic syndrome can disrupt the intestinal microbiota and promote the acquisition of resistance and virulence genes in Enterobacteriaceae stains

**Author(s):** Chelariu, M; Grosu, M; Gheorghe, I; Gradisteanu, G; Picu, A; Petcu, L; Popa, M; **Chifiriuc, MC**; Ditu, L; Lazar, V; Dimov, TV  
**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 3  
**Pages:** 12643-12650 **Published:** MAY-JUN 2017  
**ISSN:** 1224-5984

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Antibiotic Resistance and Virulence Phenotypes of Recent Bacterial Strains Isolated from Urinary Tract Infections in Elderly Patients with Prostatic Disease

**Author(s):** Delcaru, C; Podgoreanu, P; Alexandru, I; Popescu, N; Marutescu, L; Bleotu, C; Mogosanu, GD; **Chifiriuc, MC**; Gluck, M; Lazar, V  
**Source:** PATHOGENS **Volume:** 6 **Issue:** 2 **Article Number:** 22 **DOI:** 10.3390/pathogens6020022 **Published:** JUN 2017

ISSN: 2076-0817

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Antimicrobial performance of nanostructured silica-titania sieves loaded with izohidrafural against microbial strains isolated from urinary tract infections

**Author(s):** Al Tameemi, MBM; Stan, R; Prisacari, V; Voicu, G; Popa, M; **Chifiriuc, MC**; Ott, C; Marton, G; Meghea, A

**Source:** COMPTES RENDUS CHIMIE **Volume:** 20 **Issue:** 5 **Pages:** 475-483

**DOI:** 10.1016/j.crci.2016.09.007 **Published:** MAY 2017

**ISSN:** 1631-0748

**eISSN:** 1878-1543

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Density functional theory molecular modeling, chemical synthesis, and antimicrobial behaviour of selected benzimidazole derivatives

**Author(s):** Marinescu, M; Tudorache, DG; Marton, GI; Zalaru, CM; Popa, M; **Chifiriuc, MC**; Stavarache, CE; Constantinescu, C

**Source:** JOURNAL OF MOLECULAR STRUCTURE **Volume:** 1130 **Pages:** 463-471

**DOI:** 10.1016/j.molstruc.2016.10.066 **Published:** FEB 15 2017

**ISSN:** 0022-2860

**eISSN:** 1872-8014

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Laser deposition of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) - lysozyme microspheres based coatings with anti-microbial properties

**Author(s):** Grumezescu, V; Holban, AM; Sima, LE; Chiritoiu, MB; Chiritoiu, GN; Grumezescu, AM; Ivan, L; Safciuc, F; Antohe, F; Florica, C; Luculescu, CR; **Chifiriuc, MC**; Socol, G

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 521 **Issue:** 1-2

**Pages:** 184-195 **DOI:** 10.1016/j.ijpharm.2017.01.069 **Published:** APR 15 2017

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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The influence of nutrient culture media on Escherichia coli adhesion and biofilm formation ability

**Author(s):** Bleotu, C; **Chifiriuc, MC**; Mircioaga, D; Sandulescu, O; Aldea, IM; Banu, O; Ion, D; Diaconu, CC; Marinescu, F; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 22 **Issue:** 2

**Pages:** 12483-12491 **Published:** MAR-APR 2017

**ISSN:** 1224-5984

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Thermal behaviour of some biologically active species based on complexes with a triazolopyrimidine pharmacophore

**Author(s):** Olar, R; Calu, L; Badea, M; **Chifiriuc, MC**; Bleotu, C; Velescu, B; Stoica, O; Ionita, G; Stanica, N; Silvestro, L; Dulea, C; Uivarosi, V

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 127 **Issue:** 1 **Pages:** 685-696 **DOI:** 10.1007/s10973-016-5425-7

**Published:** JAN 2017

**ISSN:** 1388-6150

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Spectral, magnetic, thermal and biological studies on Ca(II) and Cu(II) complexes with a novel crowned Schiff base

**Author(s):** Zarafu, I; Badea, M; Ionita, G; Ionita, P; Paun, A; Bucur, M; **Chifiriuc, MC**; Bleotu, C; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 127 **Issue:** 2 **Pages:** 1511-1521 **DOI:** 10.1007/s10973-016-5573-9

**Published:** FEB 2017

**ISSN:** 1388-6150

eISSN: 1588-2926

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Lipoic Acid Gold Nanoparticles Functionalized with Organic Compounds as Bioactive Materials  
**Author(s):** Turcu, I; Zarafu, I; Popa, M; **Chifiriuc, MC**; Bleotu, C; Culita, D; Ghica, C; Ionita, P  
**Source:** NANOMATERIALS **Volume:** 7 **Issue:** 2 **Article Number:** 43 **DOI:** 10.3390/nano7020043  
**Published:** FEB 2017  
**eISSN:** 2079-4991

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Interaction of New-Developed TiO<sub>2</sub>-Based Photocatalytic Nanoparticles with Pathogenic Microorganisms and Human Dermal and Pulmonary Fibroblasts  
**Author(s):** Nica, IC; Stan, MS; Popa, M; **Chifiriuc, MC**; Lazar, V; Pircalabioru, GG; Dumitrescu, I; Ignat, M; Feder, M; Tanase, LC; Mercioniu, I; Diamandescu, L; Dinischiotu, A  
**Source:** INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES **Volume:** 18 **Issue:** 2  
**Article Number:** 249 **DOI:** 10.3390/ijms18020249 **Published:** FEB 2017  
**ISSN:** 1422-0067

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Thermal behaviour of some novel biologically active complexes with a triazolopyrimidine pharmacophore  
**Author(s):** Calu, L; Badea, M; Korosec, RC; Bukovec, P; Daniliuc, CG; **Chifiriuc, MC**; Marutescu, L; Ciulica, C; Serban, G; Olar, R  
**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY  
**Volume:** 127 **Issue:** 1 **Pages:** 697-708 **DOI:** 10.1007/s10973-016-5515-6 **Published:** JAN 2017  
**ISSN:** 1388-6150  
**eISSN:** 1588-2926

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Thermal behavior of new nickel(II) complexes with unsaturated carboxylates and heterocyclic N-donor ligands  
**Author(s):** Olar, R; Vlaicu, ID; **Chifiriuc, MC**; Bleotu, C; Stanica, N; Scaeteanu, GV; Silvestro, L; Dulea, C; Badea, M  
**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 127 **Issue:** 1 **Pages:** 731-741 **DOI:** 10.1007/s10973-016-5445-3  
**Published:** JAN 2017  
**ISSN:** 1388-6150  
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Seasonal monitoring of microbiological air contamination from a museum - a case study  
**Author(s):** Scarlat, IP; Lazar, V; Stepa, R; **Chifiriuc, MC**; Ditu, LM; Haiducu, M  
**Edited by:** Bondrea I; Simion C; Inta M  
**Source:** 8TH INTERNATIONAL CONFERENCE ON MANUFACTURING SCIENCE AND EDUCATION (MSE 2017) - TRENDS IN NEW INDUSTRIAL REVOLUTION **Book Series:** MATEC Web of Conferences **Volume:** 121 **Article Number:** 11017  
**DOI:** 10.1051/mateconf/201712111017 **Published:** 2017  
**ISSN:** 2261-236X

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Insight on thermal behaviour of new complexes of Ni(II), Cu(II) and Zn(II) with a bismacrocylic ligand developed as biologically active species  
**Author(s):** Badea, M; Bucur, C; **Chifiriuc, MC**; Bleotu, C; Grecu, MN; Lazar, V; Marinescu, D; Olar, R  
**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 127 **Issue:** 1 **Pages:** 487-497 **DOI:** 10.1007/s10973-016-5502-y  
**Published:** JAN 2017  
**ISSN:** 1388-6150

Comparative evaluation of aggressiveness traits in staphylococcal strains from severe infections versus nasopharyngeal carriage

**Author(s):** Sandulescu, O; Bleotu, C; Matei, L; Streinu-Cercel, A; Oprea, M; Dragulescu, EC; **Chifiriuc, MC**; Rafila, A; Pirici, D; Talapan, D; Dorobat, OM; Negut, AC; Otelea, D; Berciu, I; Ion, DA; Codita, I; Calistru, PI; Streinu-Cercel, A

**Source:** MICROBIAL PATHOGENESIS **Volume:** 102 **Pages:** 45-53

**DOI:** 10.1016/j.micpath.2016.11.006 **Published:** JAN 2017

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STUDIES ON THE ANTIMYCOBACTERIAL ACTION OF A NOVEL COMPOUND OF THE THIADIAZOLE CLASS, 2-(PROPYL-THIO)-5H-[1,3,4]-THIADIAZOLE[2,3-B]-QUINAZOLINE-5-ONE

**Author(s):** Pogrebnoi, S; Chirita, C; Valicas, V; Macaev, F; **Chifiriuc, MC**; Kamerzan, C; Uncu, L; Uncu, A; Negres, S; Ionica, FE; Nicolescu, F; Marandiu, IM; Stefanescu, E

**Source:** FARMACIA **Volume:** 65 **Issue:** 1 **Pages:** 69-74 **Published:** JAN-FEB 2017

**ISSN:** 0014-8237

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Structural and Antimicrobial Evaluation of Silver Doped Hydroxyapatite- Polydimethylsiloxane Thin Layers

**Author(s):** Iconaru, SL; **Chifiriuc, MC**; Groza, A

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2017 **Article Number:** 7492515

**DOI:** 10.1155/2017/7492515 **Published:** 2017

**ISSN:** 1687-4110

**eISSN:** 1687-4129

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Nanostructured Approaches for the Targeted Delivery of Antibiotics in Difficult Infections

**Author(s):** Curutiu, C; Grumezescu, V; **Chifiriuc, MC**; Huang, KS; Iordache, F; Lin, YM; Holban, AM

**Source:** CURRENT ORGANIC CHEMISTRY **Volume:** 21 **Issue:** 1 **Pages:** 45-52

**DOI:** 10.2174/1385272820666160510170450 **Published:** 2017

**ISSN:** 1385-2728

**eISSN:** 1875-5348

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Fabrication of antimicrobial silver-doped carbon structures by combinatorial pulsed laser deposition

**Author(s):** Mihailescu, IN; Bociaga, D; Socol, G; Stan, GE; **Chifiriuc, MC**; Bleotu, C; Husanu, MA; Popescu-Pelin, G; Duta, L; Luculescu, CR; Negut, I; Hapenciuc, C; Besleaga, C; Zgura, I; Miculescu, F

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 515 **Issue:** 1-2

**Pages:** 592-606 **DOI:** 10.1016/j.ijpharm.2016.10.041 **Published:** DEC 30 2016

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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Bacteriophage-driven inhibition of biofilm formation in Staphylococcus strains from patients attending a Romanian reference center for infectious diseases

**Author(s):** Negut, AC; **Chifiriuc, MC**; Sandulescu, O; Streinu-Cercel, A; Oprea, M; Dragulescu, EC; Gheorghe, I; Berciu, I; Coralina, B; Popa, M; Otelea, D; Talapan, D; Dorobat, O; Codita, I; Popa, MI; Streinu-Cercel, A

**Source:** FEMS MICROBIOLOGY LETTERS **Volume:** 363 **Issue:** 18 **Article Number:** fnw193

**DOI:** 10.1093/femsle/fnw193 **Published:** SEP 2016

**ISSN:** 0378-1097

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Combinatorial MAPLE deposition of antimicrobial orthopedic maps fabricated from chitosan and

biomimetic apatite powders

**Author(s):** Visan, A; Stan, GE; Ristoscu, C; Popescu-Pelin, G; Sopronyi, M; Besleaga, C; Luculescu, C; **Chifiriuc, MC**; Hussien, MD; Marsan, O; Kergourlay, E; Grossin, D; Brouillet, F; Mihailescu, IN

**Source:** INTERNATIONAL JOURNAL OF

PHARMACEUTICS **Volume:** 511 **Issue:** 1 **Pages:** 505-515

**DOI:** 10.1016/j.ijpharm.2016.07.015 **Published:** SEP 10 2016

**ISSN:** 0378-5173

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Innovative Self-Cleaning and Biocompatible Polyester Textiles Nano-Decorated with Fe-N-Doped Titanium Dioxide

**Author(s):** Nica, IC; Stan, MS; Dinischiotu, A; Popa, M; **Chifiriuc, MC**; Lazar, V; Pircalabioru, GG; Bezirtzoglou, E; Iordache, OG; Varzaru, E; Dumitrescu, I; Feder, M; Vasiliu, F; Mercioniu, I; Diamandescu, L

**Source:** NANOMATERIALS **Volume:** 6 **Issue:** 11 **Article Number:** 214

**DOI:** 10.3390/nano6110214 **Published:** NOV 2016

**ISSN:** 2079-4991

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Biocompatible hybrid silica nanobiocomposites for the efficient delivery of anti-staphylococcal drugs

**Author(s):** Balaure, PC; Popa, RA; Grumezescu, AM; Voicu, G; Radulescu, M; Mogoanta, L; Balseanu, TA; Mogosanu, GD; **Chifiriuc, MC**; Bleotu, C; Holban, AM; Bolocan, A

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 510 **Issue:** 2

**Pages:** 532-542 **DOI:** 10.1016/j.ijpharm.2016.03.037 **Published:** AUG 30 2016

**ISSN:** 0378-5173

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Photocatalytic, Antimicrobial and Biocompatibility Features of Cotton Knit Coated with Fe-N-Doped Titanium Dioxide Nanoparticles

**Author(s):** Stan, MS; Nica, IC; Dinischiotu, A; Varzaru, E; Iordache, OG; Dumitrescu, I; Popa, M; **Chifiriuc, MC**; Pircalabioru, GG; Lazar, V; Bezirtzoglou, E; Feder, M; Diamandescu, L

**Source:** MATERIALS **Volume:** 9 **Issue:** 9 **Article Number:** 789

**DOI:** 10.3390/ma9090789 **Published:** SEP 2016

**ISSN:** 1996-1944

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Norfloxacin delivery systems based on MCM-type silica carriers designed for the treatment of severe infections

**Author(s):** Deaconu, M; Pintilie, L; Vasile, E; Mitran, RA; Pircalabioru, GG; Matei, C; **Chifiriuc, MC**; Berger, D

**Source:** MATERIALS CHEMISTRY AND PHYSICS **Volume:** 238 **Article Number:** 121886

**DOI:** 10.1016/j.matchemphys.2019.121886 **Published:** DEC 1 2019

**ISSN:** 0254-0584

**eISSN:** 1879-3312

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Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections

**Author(s):** Radulescu, D; Grumezescu, V; Andronescu, E ; Holban, AM; Grumezescu, AM; Socol, G; Oprea, AE; Radulescu, M; Surdu, A; Trusca, R; Radulescu, R; **Chifiriuc, MC**; Stan, MS; Constanda, S; Dinischiotu, A

**Source:** APPLIED SURFACE SCIENCE **Volume:** 374 **Pages:** 387-396

**DOI:** 10.1016/j.apsusc.2016.02.072 **Published:** JUN 30 2016

**ISSN:** 0169-4332

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Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver

nanoparticles fabricated by MAPLE: A comparative study

**Author(s):** Cristescu, R; Visan, A; Socol, G; Surdu, AV; Oprea, AE; Grumezescu, AM; **Chifiriuc, MC**; Boehm, RD; Yamaleyeva, D; Taylor, M; Narayan, RJ; Chrisey, DB

**Source:** APPLIED SURFACE SCIENCE **Volume:** 374 **Pages:** 290-296

**DOI:** 10.1016/j.apsusc.2015.11.252 **Published:** JUN 30 2016

**ISSN:** 0169-4332

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Efficient transmission of IncFII(Y) and IncL plasmids and Klebsiella pneumoniae ST101 clone producing OXA-48, NDM-1 or OXA-181 in Bucharest hospitals

**Author(s):** Czobor, I; Novais, A; Rodrigues, C; **Chifiriuc, MC**; Mihaescu, G; Lazar, V; Peixe, L

**Source:** INTERNATIONAL JOURNAL OF ANTIMICROBIAL

AGENTS **Volume:** 48 **Issue:** 2 **Pages:** 223-224

**DOI:** 10.1016/j.ijantimicag.2016.05.004 **Published:** AUG 2016

**ISSN:** 0924-8579

**eISSN:** 1872-7913

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Functionalized Antimicrobial Composite Thin Films Printing for Stainless Steel Implant Coatings

**Author(s):** Floroian, L; Ristoscu, C; Mihailescu, N; Negut, I; Badea, M; Ursutiu, D; **Chifiriuc, MC**; Urzica, I; Dyia, HM; Bleotu, C ; Mihailescu, IN

**Source:** MOLECULES **Volume:** 21 **Issue:** 6 **Article Number:** 740

**DOI:** 10.3390/molecules21060740 **Published:** JUN 2016

**eISSN:** 1420-3049

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The European Federation of Clinical Chemistry and Laboratory Medicine syllabus for postgraduate education and training for Specialists in Laboratory Medicine: version 5 - 2018

**Author(s):** Jassam, N; Lake, J; Dabrowska, M; Queraltó, J; Rizos, D; Lichtinghagen, R; Baum, H; Ceriotti, F; O'Mullane, J; Homsak, E; Charilaou, C; Ohlson, M; Rako, I; Vitkus, D; Kovac, G; Verschuure, P; Racek, J; **Chifiriuc, MC**; Wieringa, G

**Source:** BIOCHIMICA CLINICA **Volume:** 42 **Issue:** 3 **Pages:** 247-262

**DOI:** 10.19186/BC\_2018.044 **Published:** SEP 2018

**ISSN:** 0393-0564

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Phenotypic and genotypic assessment of Lactobacillus plantarum influence on Candida albicans fluconazole resistance

**Author(s):** Sarbu, I; Vassu, T; Stoica, I; Dascalu, L; **Chifiriuc, C**; Pelinescu, D

**Source:** ANNALS OF MICROBIOLOGY **Volume:** 66 **Issue:** 2 **Pages:** 817-823

**DOI:** 10.1007/s13213-015-1159-1 **Published:** JUN 2016

**ISSN:** 1590-4261

**eISSN:** 1869-2044

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Silver Nanocoatings for Reducing the Exogenous Microbial Colonization of Wound Dressings

**Author(s):** Radulescu, M; Andronescu, E; Dolete, G; Popescu, RC; Fufa, O; **Chifiriuc, MC**;

Mogoanta, L; Balseanu, TA; Mogosanu, GD; Grumezescu, AM; Holban, AM

**Source:** MATERIALS **Volume:** 9 **Issue:** 5 **Article Number:** 345

**DOI:** 10.3390/ma9050345 **Published:** MAY 2016

**ISSN:** 1996-1944

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Bioactive ZnO Coatings Deposited by MAPLE-An Appropriate Strategy to Produce Efficient Anti-Biofilm Surfaces

**Author(s):** Oprea, AE; Pandel, LM; Dumitrescu, AM; Andronescu, E; Grumezescu, V; **Chifiriuc, MC**; Mogoanta, L; Balseanu, TA; Mogosanu, GD; Socol, G; Grumezescu, AM; Iordache, F; Maniu, H; Chirea, M; Holban, AM

**Source:** MOLECULES **Volume:** 21 **Issue:** 2 **Article Number:** 220

**DOI:** 10.3390/molecules21020220 **Published:** FEB 2016

**ISSN:** 1420-3049

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Staphylococcus sp Involvement in Community Acquired Urinary Tract Infections

**Author(s):** Cristea, VC; Gheorghe, I; Neacsu, G; Galca, R; Czobor, I; Alexandru, I; **Chifiriuc, MC**; Lazar, V; Popa, MI

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 21 **Issue:** 2

**Pages:** 11413-11417 **Published:** MAR-APR 2016

**ISSN:** 1224-5984

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Synthesis and Bioevaluation of the Antimicrobial Features of Some New Thiazolyl-azoles

**Author(s):** Oniga, S; Araniciu, C; Palage, M; Stoica, C; **Chifiriuc, MC**; Marutescu, L

**Source:** REVISTA DE CHIMIE **Volume:** 67 **Issue:** 3 **Pages:** 426-429 **Published:** MAR 2016

**ISSN:** 0034-7752

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Structural, compositional, mechanical characterization and biological assessment of bovine-derived hydroxyapatite coatings reinforced with MgF<sub>2</sub> or MgO for implants functionalization

**Author(s):** Mihailescu, N; Stan, GE; Duta, L; **Chifiriuc, MC**; Bleotu, C; Sopronyi, M; Luculescu, C; Otkar, FN; Mihailescu, IN

**Source:** MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS **Volume:** 59 **Pages:** 863-874

**DOI:** 10.1016/j.msec.2015.10.078 **Published:** FEB 1 2016

**ISSN:** 0928-4931

**eISSN:** 1873-0191

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Tunable ZnO spheres with high anti-biofilm and antibacterial activity via a simple green hydrothermal route

**Author(s):** Patrinoiu, G; Calderon-Moreno, JM; **Chifiriuc, CM**; Saviuc, C; Birjega, R; Carp, O

**Source:** JOURNAL OF COLLOID AND INTERFACE SCIENCE **Volume:** 462 **Pages:** 64-74

**DOI:** 10.1016/j.jcis.2015.09.059 **Published:** JAN 15 2016

**ISSN:** 0021-9797

**eISSN:** 1095-7103

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HIGHLY BIOCOMPATIBLE MAGNETITE NANOPARTICLES FUNCTIONALIZED WITH CHITOSAN FOR IMPROVING THE EFFICIENCY OF ANTIBIOTICS

**Author(s):** Holban, AM; Grumezescu, V; Ficai, A; Grumezescu, AM; **Chifiriuc, MC**; Iordache, F; Andronescu, E

**Source:** UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE **Volume:** 78 **Issue:** 3 **Pages:** 47-

58 **Published:** 2016

**ISSN:** 1454-2331

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Antimicrobial coatings based on zinc oxide and orange oil for improved bioactive wound dressings and other applications

**Author(s):** Radulescu, M; Andronescu, E; Cirja, A; Holban, AM; Mogoanta, L; Balseanu, TA; Catalin, B; Neagu, TP; Lascar, I; Florea, DA; Grumezescu, AM; Ciubuca, B; Lazar, V; **Chifiriuc, MC**; Bolocan, A

**Source:** ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

**Volume:** 57 **Issue:** 1 **Pages:** 107-114 **Published:** 2016

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BIOLOGICAL STUDIES ON DEXTRIN COATED IRON OXIDE NANOPARTICLES

**Author(s):** Iconaru, SL; Turculet, C; Le Coustumer, P; Bleotu, C; **Chifiriuc, MC**; Lazar, V; Surugiu, A; Badea, M; Iordache, FM; Soare, M; Prodan, AM  
**Source:** ROMANIAN REPORTS IN PHYSICS **Volume:** 68 **Issue:** 4 **Pages:** 1536-1544  
**Published:** 2016  
**ISSN:** 1221-1451  
**eISSN:** 1841-8759

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In Vitro Testing of Susceptibility to Endodontic Irrigants and Disinfectants of Bacterial Strains Isolated from Chronic Apical Periodontitis  
**Author(s):** Cristea, AD; Preoteasa, CT; Popa, M; Marutescu, L; **Chifiriuc, MC**; Gheorghe, I; Lazar, V; Iliescu, AA; Perlea, P; Moldoveanu, GF; Suci, I  
**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 21 **Issue:** 1  
**Pages:** 11217-11224 **Published:** JAN-FEB 2016  
**ISSN:** 1224-5984

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Biocompatible 3D Matrix with Antimicrobial Properties  
**Author(s):** Ion, A; Andronescu, E; Radulescu, D; Radulescu, M; Iordache, F; Vasile, BS; Surdu, AV; Albu, MG; Maniu, H; **Chifiriuc, MC**; Grumezescu, AM; Holban, AM  
**Source:** MOLECULES **Volume:** 21 **Issue:** 1 **Article Number:** 115  
**DOI:** 10.3390/molecules21010115 **Published:** JAN 2016  
**eISSN:** 1420-3049

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Influence of Thermal Treatment on the Antimicrobial Activity of Silver-Doped Biological Apatite  
**Author(s):** Popa, CL; Ciobanu, CS; Voicu, G; Vasile, E; **Chifiriuc, MC**; Iconaru, SL; Predoi, D  
**Source:** NANOSCALE RESEARCH LETTERS **Volume:** 10 **Article Number:** 502  
**DOI:** 10.1186/s11671-015-1211-x **Published:** DEC 29 2015

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Enamel Based Composite Layers Deposited on Titanium Substrate with Antifungal Activity  
**Author(s):** Iconaru, SL; Prodan, AM; Turculet, CS; Beuran, M; Ghita, RV; Costescu, A; Groza, A; **Chifiriuc, MC**; Chapon, P; Gaiaschi, S; Hristu, R; Stanciu, GA; Trusca, R; Ganciu, M; Raita, SM (; Vineticu, N; Ciobanu, CS  
**Source:** JOURNAL OF SPECTROSCOPY **Volume:** 2016 **Article Number:** 4361051  
**DOI:** 10.1155/2016/4361051 **Published:** 2016  
**ISSN:** 2314-4920  
**eISSN:** 2314-4939

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NOVEL BIOACTIVE AND BIODEGRADABLE MATERIALS FOR MEDICAL APPLICATIONS  
**Author(s):** Stoica, P; Rapa, M; **Chifiriuc, MC**; Lungu, M; Tatia, R; Coroiu, V; Vlad, G; Lazar, V  
**Source:** ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL **Volume:** 14 **Issue:** 11 **Pages:** 2703-2711  
**DOI:** 10.30638/eemj.2015.287 **Published:** NOV 2015  
**ISSN:** 1582-9596  
**eISSN:** 1843-3707

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Chemical Composition and Antipathogenic Activity of Artemisia annua Essential Oil from Romania  
**Author(s):** Marinas, IC; Oprea, E; **Chifiriuc, MC**; Badea, IA; Buleandra, M; Lazar, V  
**Source:** CHEMISTRY & BIODIVERSITY **Volume:** 12 **Issue:** 10 **Pages:** 1554-1564  
**DOI:** 10.1002/cbdv.201400340 **Published:** OCT 2015  
**ISSN:** 1612-1872  
**eISSN:** 1612-1880

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Screening of Polyphenol Content and In vitro Studies of Antioxidant, Antibacterial and Cytotoxic Activities of Capsicum Annuum Extracts



**Author(s):** Ciulu-Costinescu, F; **Chifiriuc, MC**; Popa, M; Bleotu, C; Neamtu, J; Averis, LME; Bubulica, MV; Simionescu, A; Aldea, IM; Belu, I

**Source:** REVISTA DE CHIMIE **Volume:** 66 **Issue:** 9 **Pages:** 1261-1266 **Published:** SEP 2015  
**ISSN:** 0034-7752

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The phytotoxicity and antimicrobial activity of *Amorpha fruticosa* L. leaves extract

**Author(s):** Hovanet, MV; Marinas, IC; Dinu, M; Oprea, E; **Chifiriuc, MC**; Stavropoulou, E; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 4  
**Pages:** 10670-10678 **Published:** JUL-AUG 2015  
**ISSN:** 1224-5984

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Antimicrobial Features of Organic Functionalized Graphene-Oxide with Selected Amines

**Author(s):** Zarafu, I; Turcu, I; Culita, DC; Petrescu, S; Popa, M; **Chifiriuc, MC**; Limban, C; Telehoiu, A; Ionita, P

**Source:** MATERIALS **Volume:** 11 **Issue:** 9 **Article Number:** 1704 **DOI:** 10.3390/ma11091704  
**Published:** SEP 2018  
**eISSN:** 1996-1944

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Plastified polyvinyl chloride for antimicrobial medical device applications

**Author(s):** Grosu, E; Ficai, A; Rapa, M; Zaharia, C; **Chifiriuc, C**; Ulinici, S; Jecu, L

**Source:** JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS  
**Volume:** 17 **Issue:** 7-8 **Pages:** 1139-1145 **Published:** JUL-AUG 2015  
**ISSN:** 1454-4164  
**eISSN:** 1841-7132

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Stainless steel surface biofunctionalization with PMMA-bioglass coatings: compositional, electrochemical corrosion studies and microbiological assay

**Author(s):** Floroian, L; Samoila, C; Badea, M; Munteanu, D; Ristoscu, C; Sima, F; Negut, I; **Chifiriuc, MC**; Mihailescu, IN (Mihailescu, I. N.)

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE **Volume:** 26 **Issue:** 6 **Article Number:** 195 **DOI:** 10.1007/s10856-015-5527-y  
**Published:** JUN 2015  
**ISSN:** 0957-4530  
**eISSN:** 1573-4838

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Nanostructured mesoporous silica: new perspectives for fighting antimicrobial resistance

**Author(s):** Voicu, G; Dogaru, I; Melita, D; Mesterca, R; Spirescu, V; Stan, E; Tote, E; Mogoanta, L; Mogosanu, GD; Grumezescu, AM; Trusca, R; Vasile, E; Iordache, F; **Chifiriuc, MC**; Holban, AM

**Source:** JOURNAL OF NANOPARTICLE RESEARCH **Volume:** 17 **Issue:** 5 **Article Number:** 201  
**DOI:** 10.1007/s11051-015-3004-7 **Published:** MAY 5 2015  
**ISSN:** 1388-0764  
**eISSN:** 1572-896X

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Frequency and phenotypic virulence features of *Streptococcus pyogenes* strains isolated from throat carriage in Romanian population

**Author(s):** Ionescu, D; **Chifiriuc, MC**; Ionescu, B; Cristea, VC; Sacagiu, B; Duta, M; Neacsu, G; Gilca, R; Bleotu, C; Bezirtzoglou, E; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 20 **Issue:** 3

**Pages:** 10470-10477 **Published:** MAY-JUN 2015

**ISSN:** 1224-5984

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Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications

**Author(s):** Grumezescu, V; Andronescu, E; Holban, AM; Socol, G; Grumezescu, AM; Fikai, A; Lazar, V; **Chifiriuc, MC**; Trusca, R; Iordache, F

**Source:** APPLIED SURFACE SCIENCE **Volume:** 336 **Pages:** 401-406

**DOI:** 10.1016/j.apsusc.2015.01.080 **Published:** MAY 1 2015

**ISSN:** 0169-4332

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Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE

**Author(s):** Cristescu, R; Surdu, AV; Grumezescu, AM; Oprea, AE; Trusca, R; Vasile, O; Dorcioman, G; Visan, A; Socol, G; Mihailescu, IN; Mihaiescu, D; Enculescu, M; **Chifiriuc, MC**; Boehm, RD; Narayan, RJ; Chrisey, DB

**Source:** APPLIED SURFACE SCIENCE **Volume:** 336 **Pages:** 234-239

**DOI:** 10.1016/j.apsusc.2014.11.145 **Published:** MAY 1 2015

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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SYNTHESIS, CHARACTERIZATION AND CYTOTOXICITY EVALUATION ON ZINC DOPED HYDROXYAPATITE IN COLLAGEN MATRIX

**Author(s):** Popa, CL; Bartha, CM; Albu, M; Guegan, R; Motelica-Heino, M; **Chifiriuc, MC**; Bleotu, C; Badea, ML; Antohe, S

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND

BIOSTRUCTURES **Volume:** 10 **Issue:** 2 **Pages:** 681-691 **Published:** APR-JUN 2015

**ISSN:** 1842-3582

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Synthesis, spectral, thermal, magnetic and biological characterization of Co(II), Ni(II), Cu(II) and Zn(II) complexes with a Schiff base bearing a 1,2,4-triazole pharmacophore

**Author(s):** Calu, L; Badea, M; **Chifiriuc, MC**; Bleotu, C; David, GI; Ionita, G; Marutescu, L; Lazar, V; Stanica, N; Soponaru, I; Marinescu, D; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 120 **Issue:** 1 **Pages:** 375-386 **DOI:** 10.1007/s10973-014-3970-5 **Published:** APR 2015

**ISSN:** 1388-6150

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Snapshot on carbapenemase-producing *Pseudomonas aeruginosa* and *Acinetobacter baumannii* in Bucharest hospitals reveals unusual clones and novel genetic surroundings for bla(OXA-23)

**Author(s):** Gheorghe, I; Novais, A; Grosso, F; Rodrigues, C; **Chifiriuc, MC**; Lazar, V; Peixe, L

**Source:** JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY **Volume:** 70 **Issue:** 4

**Pages:** 1016-1020 **DOI:** 10.1093/jac/dku527 **Published:** APR 2015

**ISSN:** 0305-7453

**eISSN:** 1460-2091

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Carvone functionalized iron oxide nanostructures thin films prepared by MAPLE for improved resistance to microbial colonization

**Author(s):** Holban, AM; Andronescu, E; Grumezescu, V; Oprea, AE; Grumezescu, AM; Socol, G; **Chifiriuc, MC**; Lazar, V; Iordache, F

**Source:** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY **Volume:** 73 **Issue:** 3

**Special Issue:** SI **Pages:** 605-611 **DOI:** 10.1007/s10971-014-3552-9 **Published:** MAR 2015

ISSN: 0928-0707

eISSN: 1573-4846

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MAPLE fabricated magnetite@Melissa officinalis and poly lactic acid: chitosan coated surfaces with anti-staphylococcal properties

**Author(s):** Grumezescu, AM; Andronescu, E; Oprea, AE; Holban, AM; Socol, G; Grumezescu, V; **Chifiriuc, MC**; Iordache, F; Maniu, H

**Source:** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY **Volume:** 73 **Issue:** 3

**Special Issue:** SI **Pages:** 612-619 **DOI:** 10.1007/s10971-014-3558-3 **Published:** MAR 2015

ISSN: 0928-0707

eISSN: 1573-4846

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Fabrication of magnetite-based core-shell coated nanoparticles with antibacterial properties

**Author(s):** Grumezescu, AM; Cristescu, R; **Chifiriuc, MC**; Dorcioman, G; Socol, G; Mihailescu, IN; Mihaiescu, DE; Ficai, A; Vasile, OR; Enculescu, M; Chrisey, DB

**Source:** BIOFABRICATION **Volume:** 7 **Issue:** 1 **Article Number:** 015014

**DOI:** 10.1088/1758-5090/7/1/015014 **Published:** MAR 2015

ISSN: 1758-5082

eISSN: 1758-5090

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Efficiency of gentamicin loaded in bacterial polysaccharides microcapsules against intracellular Gram-positive and Gram-negative invasive pathogens

**Author(s):** Croitoru, CD; Mihaiescu, DE; **Chifiriuc, MC**; Bolocan, A; Bleotu, C; Grumezescu, AM; Saviuc, CM; Lazar, V; Curutiu, C

**Source:** ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

**Volume:** 56 **Issue:** 4 **Pages:** 1417-1421 **Published:** 2015

ISSN: 1220-0522

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Antimicrobial Activity Evaluation on Silver Doped Hydroxyapatite/Polydimethylsiloxane Composite Layer

**Author(s):** Ciobanu, CS; Groza, A; Iconaru, SL; Popa, CL; Chapon, P; **Chifiriuc, MC**; Hristu, R; Stanciu, GA; Negrița, CC; Ghita, RV; Ganciu, M; Predoi, D

**Source:** BIOMED RESEARCH INTERNATIONAL **Volume:** 2015 **Article Number:** 926513

**DOI:** 10.1155/2015/926513 **Published:** 2015

ISSN: 2314-6133

eISSN: 2314-6141

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Biocompatible hydrodispersible magnetite nanoparticles used as antibiotic drug carriers

**Author(s):** Bolocan, A; Mihaiescu, DE; Andronescu, E; Voicu, G; Grumezescu, AM; Ficai, A; Vasile, BS; Bleotu, C; **Chifiriuc, MC**; Pop, CS

**Source:** ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

**Volume:** 56 **Issue:** 2 **Pages:** 365-370 **Published:** 2015

ISSN: 1220-0522

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Influence of Staphylococcus aureus attachment to the herpes simplex virus infected cells

**Author(s):** Bleotu, C; **Chifiriuc, MC**; Lazar, V; Dragusel, R; Matei, L; Aldea, IM; Dragu, LD; Ionescu, B; Diaconu, CC; Cernescu, C; Mogoanta, CA; Popescu, CR; Popescu, B; Grigore, R; Bertesteanu, SVG

ISSN: 1220-0522

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ANTIMICROBIAL AND ANTI-PATHOGENIC ACTIVITY EVALUATION OF SOME 2-(TRIMETHOXYPHENYL)-4-AR(1)-5-R-2-THIAZOLES

**Author(s):** Araniciu, C; Oniga, S; Oniga, O; Palage, M; **Chifiriuc, MC**; Marutescu, L

**Source:** FARMACIA **Volume:** 63 **Issue:** 1 **Pages:** 40-45 **Published:** JAN-FEB 2015

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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Insight on thermal, spectral, magnetic and biological behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a pentaazamacrocyclic ligand derived from nicotinamide

**Author(s):** Olar, R; Patrascu, F; **Chifiriuc, MC**; Iorgulescu, EE; Bleotu, C; Marutescu, L; Lazar, V; Marinescu, D; Stanica, N; Badea, M

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 118 **Issue:** 2 **Pages:** 1159-1168 **DOI:** 10.1007/s10973-014-3864-6 **Published:** NOV 2014

**ISSN:** 1388-6150

**eISSN:** 1588-2926

Structural and biological evaluation of lignin addition to simple and silver-doped hydroxyapatite thin films synthesized by matrix-assisted pulsed laser evaporation

**Author(s):** Jankovic, A; Erakovic, S; Ristoscu, C; Mihailescu, N; Duta, L; Visan, A; Stan, GE; Popa, AC; Husanu, MA; Luculescu, CR; Srdic, VV; Janackovic, D; Miskovic-Stankovic, V; Bleotu, C; **Chifiriuc, MC**; Mihailescu, IN

**Source:** JOURNAL OF MATERIALS SCIENCE-MATERIALS IN

MEDICINE **Volume:** 26 **Issue:** 1 **Article Number:** 17 **DOI:** 10.1007/s10856-014-5333-y

**Published:** JAN 2015

**ISSN:** 0957-4530

**eISSN:** 1573-4838

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Additive-free 1,4-butanediol mediated synthesis: a suitable route to obtain nanostructured, mesoporous spherical zinc oxide materials with multifunctional properties

**Author(s):** Visinescu, D; Scurtu, M; Negrea, R; Birjega, R; Culita, DC; **Chifiriuc, MC**; Draghici, C; Moreno, JC; Musuc, AM; Balint, I; Carp, O

**Source:** RSC ADVANCES **Volume:** 5 **Issue:** 121 **Pages:** 99976-99989

**DOI:** 10.1039/c5ra20224h **Published:** 2015

**eISSN:** 2046-2069

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Thermal, spectral, magnetic and biologic characterization of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand bearing ketopyridine moieties

**Author(s):** Badea, M; Patrascu, F; Korosec, RC; Bukovec, P; Raita, M; **Chifiriuc, MC**; Marutescu, L; Bleotu, C; Velescu, B; Marinescu, D; Uivarosi, V; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 118 **Issue:** 2 **Pages:** 1183-1193 **DOI:** 10.1007/s10973-014-3857-5 **Published:** NOV 2014

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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Thermal behaviour and characterisation of new biologically active Cu(II) complexes with benzimidazole as main ligand

**Author(s):** Badea, M; Vlaicu, ID; Olar, R; Constand, M; Bleotu, C; **Chifiriuc, MC**; Marutescu, L; Lazar, V; Grecu, MN; Marinescu, D

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 118 **Issue:** 2 **Pages:** 1119-1133 **DOI:** 10.1007/s10973-014-3745-z **Published:** NOV 2014

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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Thermal behaviour of some novel antimicrobials based on complexes with a Schiff base bearing

1,2,4-triazole pharmacophore

**Author(s):** Badea, M; Calu, L; **Chifiriuc, MC**; Bleotu, C; Marin, A; Ion, S; Ionita, G; Stanica, N; Marutescu, L; Lazar, V; Marinescu, D; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 118 **Issue:** 2 **Pages:** 1145-1157 **DOI:** 10.1007/s10973-014-3821-4 **Published:** NOV 2014

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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A NEW CONCEPT OF STAINLESS STEEL MEDICAL IMPLANT BASED UPON COMPOSITE NANOSTRUCTURES COATING

**Author(s):** Floroian, L; Florescu, M; Munteanu, D; Badea, M; Popescu-Pelin, G; Ristoscu, C; Sima, F; **Chifiriuc, MC**; Mihailescu, IN

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

**Volume:** 9 **Issue:** 4 **Pages:** 1555-1568 **Published:** OCT-DEC 2014

**ISSN:** 1842-3582

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Molecular screening of carbapenemase-producing Gram-negative Strains in Romanian intensive care units during a one year survey

**Author(s):** Gheorghe, I; Czobor, I; **Chifiriuc, MC**; Borcan, E; Ghita, C; Banu, O; Lazar, V; Mihaescu, G; Mihailescu, DF; Zong, ZY

**Source:** JOURNAL OF MEDICAL MICROBIOLOGY **Volume:** 63 **Pages:** 1303-1310

**DOI:** 10.1099/jmm.0.074039-0 **Part:** 10 **Published:** OCT 2014

**ISSN:** 0022-2615

**eISSN:** 1473-5644

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MAPLE fabricated magnetite@eugenol and (3-hydroxybutyric acid-co-3-hydroxyvaleric acid)-polyvinyl alcohol microspheres coated surfaces with anti-microbial properties

**Author(s):** Grumezescu, V; Holban, AM; Iordache, F; Socol, G; Mogosanu, GD; Grumezescu, AM; Ficai, A; Vasile, BS; Trusca, R; **Chifiriuc, MC**; Maniu, H

**Source:** APPLIED SURFACE SCIENCE **Volume:** 306 **Pages:** 16-22

**DOI:** 10.1016/j.apsusc.2014.01.126 **Published:** JUL 1 2014

**ISSN:** 0169-4332

**eISSN:** 1873-5584

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Usnic acid-loaded biocompatible magnetic PLGA-PVA microsphere thin films fabricated by MAPLE with increased resistance to staphylococcal colonization

**Author(s):** Grumezescu, V; Holban, AM; Grumezescu, AM; Socol, G; Ficai, A; Vasile, BS; Trusca, R; Bleotu, C; Lazar, V; **Chifiriuc, CM**; Mogosanu, GD

**Source:** BIOFABRICATION **Volume:** 6 **Issue:** 3 **Article Number:** 035002

**DOI:** 10.1088/1758-5082/6/3/035002 **Published:** SEP 2014

**ISSN:** 1758-5082

**eISSN:** 1758-5090

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Bioevaluation of Novel Anti-Biofilm Coatings Based on PVP/Fe<sub>3</sub>O<sub>4</sub> Nanostructures and 2-((4-Ethylphenoxy) methyl)-N-(arylcarbamothioyl)benzamides

**Author(s):** Limban, C; Missir, AV; Grumezescu, AM; Oprea, AE; Grumezescu, V; Vasile, BS; Socol, G; Trusca, R; Caproiu, MT; **Chifiriuc, MC**; Galateanu, B; Costache, M; Morusciag, L; Pircalabioru, G; Nuta, DC

**Source:** MOLECULES **Volume:** 19 **Issue:** 8 **Pages:** 12011-12030

**DOI:** 10.3390/molecules190812011 **Published:** AUG 2014

**ISSN:** 1420-3049

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Synthesis, Characterization and Antimicrobial Evaluation of Some New Thioureas derived from 3-thiophenecarboxylic Acid

**Author(s):** Badiceanu, CD; Draghici, C; Missir, AV; **Chifiriuc, MC**; Stecoza, CE

**Source:** REVISTA DE CHIMIE **Volume:** 65 **Issue:** 2 **Pages:** 160-163 **Published:** FEB 2014

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Studies on thermal, spectral, magnetic and biological properties of new Ni(II), Cu(II) and Zn(II) complexes with a bismacrocyclic ligand bearing an aromatic linker

**Author(s):** Bucur, C; Badea, M; **Chifiriuc, MC**; Bleotu, C; Iorgulescu, EE; Badea, IA; Grecu, MN; Lazar, V; Patriciu, OI; Marinescu, D; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 115 **Issue:** 3 **Pages:** 2179-2189 **DOI:** 10.1007/s10973-013-3460-1

**Published:** MAR 2014

**ISSN:** 1388-6150

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Anionic polymers and 10 nm Fe<sub>3</sub>O<sub>4</sub>@UA wound dressings support human foetal stem cells normal development and exhibit great antimicrobial properties

**Author(s):** Grumezescu, AM; Holban, AM; Andronescu, E; Mogosanu, GD; Vasile, BS; **Chifiriuc, MC**; Lazar, V; Andrei, E; Constantinescu, A; Maniu, H

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 463 **Issue:** 2

**Pages:** 146-154 **DOI:** 10.1016/j.ijpharm.2013.08.026 **Published:** MAR 25 2014

**ISSN:** 0378-5173

**eISSN:** 1873-3476

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Identification and phenotypic characterization of the most frequent bacterial etiologies in chronic skin ulcers

**Author(s):** Mihai, MM; Holban, AM; Giurcaneanu, C; Popa, LG; Buzea, M; Filipov, M; Lazar, V; **Chifiriuc, MC**; Popa, MJ

**Source:** ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

**Volume:** 55 **Issue:** 4 **Pages:** 1401-1408 **Published:** 2014

**ISSN:** 1220-0522

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Antimicrobial and antioxidant activity of the vegetative and reproductive organs of Robinia pseudoacacia

**Author(s):** Marinas, IC; Oprea, E; Geana, EI; **Chifiriuc, C**; Lazar, V

**Source:** JOURNAL OF THE SERBIAN CHEMICAL SOCIETY **Volume:** 79 **Issue:** 11

**Pages:** 1363-1378 **DOI:** 10.2298/JSC140304049M **Published:** 2014

**ISSN:** 0352-5139

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EVALUATION OF THE ANTIMICROBIAL AND ANTI-BIOFILM ACTIVITY OF SOME 4,2 AND 5,2 BISTHIAZOLES DERIVATIVES

**Author(s):** Araniciu, C; Marutescu, L; Oniga, S; Oniga, O; **Chifiriuc, MC**; Palage, M

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

**Volume:** 9 **Issue:** 1 **Pages:** 123-131 **Published:** JAN-MAR 2014

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Fluorescence analysis of apoptosis induced by Pseudomonas aeruginosa in endothelial cells

**Author(s):** Curutiu, C; **Chifiriuc, MC**; Iordache, F; Bleotu, C; Lazar, V; Mogoanta, CA; Popescu, CR; Grigore, R; Bertesteanu, SVG

**Source:** ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY

**Volume:** 55 **Issue:** 2 **Pages:** 313-317 **Published:** 2014

**ISSN:** 1220-0522

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SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY EVALUATION OF NEW AGENTS FROM BENZAMIDES CLASS

**Author(s):** Nuta, DC; **Chifiriuc, MC**; Draghici, C; Limban, C; Missir, AV; Morusciag, L  
**Source:** FARMACIA **Volume:** 61 **Issue:** 5 **Pages:** 966-974 **Published:** SEP-OCT 2013  
**ISSN:** 0014-8237  
**eISSN:** 2065-0019

IMPROVED ACTIVITY OF AMINOGLYCOSIDES ENTRAPPED IN SILICA NETWORKS AGAINST MICROBIAL STRAINS ISOLATED FROM OTOLARYNGOLOGICAL INFECTIONS

**Author(s):** Anghel, I; Grumezescu, AM; Holban, AM; Gheorghe, I; Vlad, M; Anghel, GA; Balaure, PC; **Chifiriuc, CM**; Ciuca, IM  
**Source:** FARMACIA **Volume:** 62 **Issue:** 1 **Pages:** 69-78 **Published:** JAN-FEB 2014  
**ISSN:** 0014-8237  
**eISSN:** 2065-0019

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Transition Metal(II) Complexes with Cefotaxime-Derived Schiff Base: Synthesis, Characterization, and Antimicrobial Studies

**Author(s):** Reiss, A; **Chifiriuc, MC**; Amzoiu, E; Spinu, CI  
**Source:** BIOINORGANIC CHEMISTRY AND APPLICATIONS **Volume:** 2014  
**Article Number:** 926287 **DOI:** 10.1155/2014/926287 **Published:** 2014  
**ISSN:** 1565-3633  
**eISSN:** 1687-479X

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Synthesis and bioevaluation of some new isoniazid derivatives

**Author(s):** Matei, L; Bleotu, C; Baciu, I; Draghici, C; Ionita, P; Paun, A; **Chifiriuc, MC**; Sbarcea, A; Zarafu, I  
**Source:** BIOORGANIC & MEDICINAL CHEMISTRY **Volume:** 21 **Issue:** 17 **Pages:** 5355-5361  
**DOI:** 10.1016/j.bmc.2013.06.013 **Published:** SEP 1 2013  
**ISSN:** 0968-0896  
**eISSN:** 1464-3391

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Synthesis and microbiological evaluation of several benzocaine derivatives

**Author(s):** Paun, A; Zarafu, I; Caproiu, MT; Draghici, C; Maganu, M; Cotar, AI; **Chifiriuc, MC**; Ionita, P  
**Source:** COMPTES RENDUS CHIMIE **Volume:** 16 **Issue:** 7 **Pages:** 665-671  
**DOI:** 10.1016/j.crci.2013.03.012 **Published:** JUL 2013  
**ISSN:** 1631-0748  
**eISSN:** 1878-1543

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Investigation of thermal stability, spectral, magnetic, and antimicrobial behavior for new complexes of Ni(II), Cu(II), and Zn(II) with a bismacrocylic ligand

**Author(s):** Bucur, C; Korosec, RC; Badea, M; Calu, L; **Chifiriuc, MC**; Grecu, N; Stanica, N; Marinescu, D; Olar, R  
**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY  
**Volume:** 113 **Issue:** 3 **Pages:** 1287-1295 **DOI:** 10.1007/s10973-012-2912-3 **Published:** SEP 2013  
**ISSN:** 1388-6150  
**eISSN:** 1588-2926

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Thermal stability of new biologic active copper(II) complexes with 5,6-dimethylbenzimidazole

**Author(s):** Vlaicu, ID; Constand, M; Olar, R; Marinescu, D; Grecu, MN; Lazar, V; **Chifiriuc, MC**; Badea, M  
**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY  
**Volume:** 113 **Issue:** 3 **Pages:** 1369-1377 **DOI:** 10.1007/s10973-013-2948-z **Published:** SEP 2013

ISSN: 1388-6150

eISSN: 1588-2926

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Functionalized magnetite silica thin films fabricated by MAPLE with antibiofilm properties

**Author(s):** Mihaiescu, DE; Cristescu, R; Dorcioman, G; Popescu, CE; Nita, C; Socol, G; Mihailescu, IN; Grumezescu, AM; Gudovan, D; Enculescu, M; Negrea, RF; Ghica, C; **Chifiriuc, C**; Bleotu, C; Chrisey, DB

**Source:** BIOFABRICATION **Volume:** 5 **Issue:** 1 **Article Number:** 015007

**DOI:** 10.1088/1758-5082/5/1/015007 **Published:** MAR 2013

**ISSN:** 1758-5082

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ANTIMICROBIAL AND BIOCOMPATIBILITY ASSAY OF NEWLY FABRICATED MATERIALS BASED COPPER OR ZINC ALGINATE AND SIO<sub>2</sub> NETWORK

**Author(s):** Grumezescu, V; **Chifiriuc, CM**; Holban, AM; Stoica, P; Grumezescu, AM; Voicu, G; Socol, G; Huang, KS; Bleotu, C; Radulescu, R

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

**Volume:** 8 **Issue:** 2 **Pages:** 869-U507 **Published:** APR-JUN 2013

**ISSN:** 1842-3582

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Synthesis, spectral and thermal study on new Fe(III) complexes with N,N-dimethylbiguanide as antibacterial agents

**Author(s):** Badea, M; Crasanda, AM; **Chifiriuc, MC**; Marutescu, L; Lazar, V; Marinescu, D; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 111 **Issue:** 3 **Pages:** 1743-1751 **DOI:** 10.1007/s10973-012-2277-7 **Published:** MAR 2013

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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Thermal, spectral, electrochemical and biologic characterization of new Pd(II) complexes with ligands bearing biguanide moieties

**Author(s):** Badea, M; Iosub, E; **Chifiriuc, CM**; Marutescu, L; Iorgulescu, EE; Lazar, V; Marinescu, D; Bleotu, C; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 111 **Issue:** 3 **Pages:** 1753-1761 **DOI:** 10.1007/s10973-012-2288-4 **Published:** MAR 2013

**ISSN:** 1388-6150

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Thermal study of new biologic active complexes with mixed ligands

**Author(s):** Vasile, G; Olar, R; Marinescu, D; Kriza, A; Marutescu, L; **Chifiriuc, MC**; Lazar, V; Badea, M

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

**Volume:** 111 **Issue:** 3 **Pages:** 1783-1790 **DOI:** 10.1007/s10973-012-2317-3 **Published:** MAR 2013

**ISSN:** 1388-6150

**eISSN:** 1588-2926

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**207.** Fabrication, characterization and in vitro profile based interaction with eukaryotic and prokaryotic cells of alginate-chitosan-silica biocomposite

**Author(s):** Balaure, PC; Andronescu, E; Grumezescu, AM; Ficai, A; Huang, KS; Yang, CH; **Chifiriuc, CM**; Lin, YS

**Source:** INTERNATIONAL JOURNAL OF PHARMACEUTICS **Volume:** 441 **Issue:** 1-2

**Pages:** 555-561 **DOI:** 10.1016/j.ijpharm.2012.10.045 **Published:** JAN 30 2013



ISSN: 0378-5173

eISSN: 1873-3476

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MAGNETITE - USNIC ACID NANOSTRUCTURED BIOACTIVE MATERIAL WITH ANTIMICROBIAL ACTIVITY

**Author(s):** Holban, AM; Grumezescu, AM; Andronescu, E; Grumezescu, V; **Chifiriuc, CM**; Radulescu, R

**Source:** REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS

**Volume:** 43 **Issue:** 4 **Pages:** 402-407 **Published:** 2013

**ISSN:** 1583-3186

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Fe<sub>3</sub>O<sub>4</sub>@C-18-CARVONE TO PREVENT CANDIDA TROPICALIS BIOFILM DEVELOPMENT

**Author(s):** Holban, AM; Grumezescu, AM; Fikai, A; **Chifiriuc, CM**; Lazar, V; Radulescu, R

**Source:** REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS

**Volume:** 43 **Issue:** 3 **Pages:** 300-305 **Published:** 2013

**ISSN:** 1583-3186

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Synthesis and Antimicrobial Activity of Silver-Doped Hydroxyapatite Nanoparticles

**Author(s):** Ciobanu, CS; Iconaru, SL; **Chifiriuc, MC**; Costescu, A; Le Coustumer, P; Predoi, D

**Source:** BIOMED RESEARCH INTERNATIONAL **Volume:** 2013 **Article**

**Number:** 916218

**DOI:** 10.1155/2013/916218 **Published:** 2013

**ISSN:** 2314-6133

**eISSN:** 2314-6141

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Fabrication, Characterization, and Antimicrobial Activity, Evaluation of Low Silver Concentrations in Silver-Doped Hydroxyapatite Nanoparticles

**Author(s):** Costescu, A; Ciobanu, CS; Iconaru, SL; Ghita, RV; **Chifiriuc, CM**; Marutescu, LG; Predoi, D

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2013 **Article Number:** 194854

**DOI:** 10.1155/2013/194854 **Published:** 2013

**ISSN:** 1687-4110

**eISSN:** 1687-4129

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Magnetic Properties and Biological Activity Evaluation of Iron Oxide Nanoparticles

**Author(s):** Prodan, AM; Iconaru, SL; **Chifiriuc, CM**; Bleotu, C; Ciobanu, CS; Motelica-Heino, M; Sizaret, S; Predoi, D

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2013 **Article Number:** 893970

**DOI:** 10.1155/2013/893970 **Published:** 2013

**ISSN:** 1687-4110

**eISSN:** 1687-4129

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Iron Oxide Magnetic Nanoparticles: Characterization and Toxicity Evaluation by In Vitro and In Vivo Assays

**Author(s):** Prodan, AM; Iconaru, SL; Ciobanu, CS; **Chifiriuc, MC**; Stoicea, M; Predoi, D

**Source:** JOURNAL OF NANOMATERIALS **Volume:** 2013 **Article Number:** 587021

**DOI:** 10.1155/2013/587021 **Published:** 2013

**ISSN:** 1687-4110

**eISSN:** 1687-4129

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Thermal behaviour of some new complexes with decaaza bismacrocylic ligand as potential antimicrobial species

**Author(s):** Bucur, C; Badea, M; Larisa, C; Marinescu, D; Grecu, MN; Stanica, N; **Chifiriuc, MC**; Olar, R

**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY **Volume:** 110 **Issue:** 1 **Pages:** 235-241 **DOI:** 10.1007/s10973-012-2199-4

**Published:** OCT 2012

**ISSN:** 1388-6150

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Synthesis and antimicrobial screening of N-(1-methyl-1H-pyrazole-4-carbonyl)-thiourea derivatives

**Author(s):** Nitulescu, GM; Draghici, C; **Chifiriuc, MC**; Marutescu, L; Bleotu, C; Missir, AV

**Source:** MEDICINAL CHEMISTRY RESEARCH **Volume:** 21 **Issue:** 3 **Pages:** 308-314

**DOI:** 10.1007/s00044-010-9541-9 **Published:** MAR 2012

**ISSN:** 1054-2523

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Biocompatible Magnetic MWCNTs Based on Phytocomponents from Eugenia carryophyllata

**Author(s):** Saviuc, C; Grumezescu, AM; Banu, O; **Chifiriuc, C**; Mihaiescu, D; Balaure, P; Lazar, V

**Source:** REVISTA DE CHIMIE **Volume:** 63 **Issue:** 5 **Pages:** 531-535 **Published:** MAY 2012

**ISSN:** 0034-7752

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IN VITRO EVALUATION OF BACTERICIDAL AND ANTIBIOFILM ACTIVITY OF LONICERA TATARICA AND VIBURNUM OPULUS PLANT EXTRACTS ON STAPHYLOCOCCUS STRAINS

**Author(s):** Bubulica, MV; Anghel, I; Grumezescu, AM; Saviuc, C; Anghel, GA; **Chifiriuc, MC**; Gheorghe, I; Lazar, V; Popescu, A

**Source:** FARMACIA **Volume:** 60 **Issue:** 1 **Pages:** 80-91 **Published:** JAN-FEB 2012

**ISSN:** 0014-8237

**eISSN:** 2065-0019

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HYBRID NANOSYSTEM FOR STABILIZING ESSENTIAL OILS IN BIOMEDICAL APPLICATIONS

**Author(s):** Saviuc, C; Grumezescu, AM; **Chifiriuc, CM**; Mihaiescu, DE; Hristu, R; Stanciu, G; Oprea, E; Radulescu, V; Lazar, V

**Source:** DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES

**Volume:** 6 **Issue:** 4 **Pages:** 1657-1666 **Published:** OCT-DEC 2011

**ISSN:** 1842-3582

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Fluorescent analysis of apoptosis induced by Pseudomonas aeruginosa in endothelial cells

**Author(s):** Iordache, F; Iordache, C; Lixandru, M; Holban, A; Bleotu, C; Lazar, V; **Chifiriuc, C**; Maniu, H

**Source:** EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS

**Volume:** 40 **Pages:** 126-126 **Supplement:** 1 **Published:** AUG 2011

**ISSN:** 0175-7571

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Mechanisms of Ceftazidime and Ciprofloxacin Transport through Porins in Multidrug-Resistance Developed by Extended-Spectrum Beta-Lactamase E.coli Strains

**Author(s):** Radu, BM; Bacalum, M; Marin, A; **Chifiriuc, CM**; Lazar, V; Radu, M

**Source:** JOURNAL OF FLUORESCENCE **Volume:** 21 **Issue:** 4 **Pages:** 1421-1429

**DOI:** 10.1007/s10895-010-0826-7 **Published:** JUL 2011

**ISSN:** 1053-0509

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Synthesis and antimicrobial properties of new 2-((4-ethylphenoxy)methyl)benzoylthioureas

**Author(s):** Limban, C; Missir, AV; Chirita, IC; Nitulescu, GM; Caproiu, MT; **Chifiriuc, MC**;

Israil, AM

**Source:** CHEMICAL PAPERS **Volume:** 65 **Issue:** 1 **Pages:** 60-69 **DOI:** 10.2478/s11696-010-0092-9

**Published:** FEB 2011

**ISSN:** 2585-7290

**eISSN:** 1336-9075

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In vitro assay of the antimicrobial activity of Fe<sub>3</sub>O<sub>4</sub> and CoFe<sub>2</sub>O<sub>4</sub>/oleic acid - core/shell on clinical isolates of bacterial and fungal strains

**Author(s):** Grumezescu, AM; Mihaiescu, DE; Mogosanu, DE; **Chifiriuc, MC**; Lazar, V; Calugarescu, I; Traistaru, V

**Source:** OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS

**Volume:** 4 **Issue:** 11 **Pages:** 1798-1801 **Published:** NOV 2010

**ISSN:** 1842-6573

**eISSN:** 2065-3824

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Antimicrobial activity of some new 2-thiophene carboxylic acid thioureides

**Author(s):** Badiceanu, CD; Missir, AV; **Chifiriuc, MC**; Dracea, O; Raut, I; Larion, C; Ditu, LM; Mihaescu, G

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 15 **Issue:** 5 **Pages:** 5545-5551

**Published:** SEP-OCT 2010

**ISSN:** 1224-5984

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Prospects for new antimicrobials based on N,N-dimethylbiguanide complexes as effective agents on both planktonic and adhered microbial strains

**Author(s):** Olar, R; Badea, M; Marinescu, D; **Chifiriuc, CM**; Bleotu, C; Grecu, MN; Iorgulescu, EE; Bucur, M; Lazar, V; Finaru, A

**Source:** EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY **Volume:** 45 **Issue:** 7

**Pages:** 2868-2875 **DOI:** 10.1016/j.ejmech.2010.03.009 **Published:** JUL 2010

**ISSN:** 0223-5234

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N,N-dimethylbiguanide complexes displaying low cytotoxicity as potential large spectrum antimicrobial agents

**Author(s):** Olar, R; Badea, M; Marinescu, D; **Chifiriuc, MC**; Bleotu, C; Grecu, MN; Iorgulescu, EE; Lazar, V

**Source:** EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY **Volume:** 45 **Issue:** 7

**Pages:** 3027-3034 **DOI:** 10.1016/j.ejmech.2010.03.033 **Published:** JUL 2010

**ISSN:** 0223-5234

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Chemical Composition and Antimicrobial Activity of Essential Oil from Shoots Spruce (*Picea abies* L)

**Author(s):** Radulescu, V; Saviuc, C; **Chifiriuc, C**; Oprea, E; Ilies, DC; Marutescu, L; Lazar, V

**Source:** REVISTA DE CHIMIE **Volume:** 62 **Issue:** 1 **Pages:** 69-74 **Published:** JAN 2011

**ISSN:** 0034-7752

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IN VITRO EVALUATION OF THE ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF SOME NEW N-(2-DIALKYLAMINOETHYL)BENZANILIDES

**Author(s):** Nuta, DC; **Chifiriuc, CB**; Missir, AV; Chirita, IC; Badiceanu, CD

**Source:** FARMACIA **Volume:** 58 **Issue:** 1 **Pages:** 38-45 **Published:** JAN-FEB 2010

**ISSN:** 0014-8237

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Genetic analysis of virulence and pathogenicity features of uropathogenic Escherichia coli isolated from patients with neurogenic bladder

**Author(s):** Mladin, C (Mladin, Claudia); Usein, CR (Usein, Codruta-Romanita); **Chifiriuc, MC**; Palade, A; Slavu, CL; Negut, M; Damian, M

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 6 **Pages:** 4906-4911

**Published:** NOV-DEC 2009

**ISSN:** 1224-5984

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SYNTHESIS OF ISOMERIC N-(1-METHYL-1H-PYRAZOLE-4-CARBONYL)-N'-(XYLYL)-THIOUREA AND THEIR ANTIMICROBIAL EVALUATION

**Author(s):** Nitulescu, GM; Draghici, C; **Chifiriuc, MC**; Missir, AV

**Source:** FARMACIA **Volume:** 57 **Issue:** 5 **Pages:** 527-533 **Published:** SEP-OCT 2009

**ISSN:** 0014-8237

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Thermal behaviour of new biological active cadmium mixed ligands complexes

**Author(s):** Badea, M; Olar, R; Marinescu, D; Lazar, V; **Chifiriuc, C**; Vasile, G

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 97 **Issue:** 2 **Pages:** 781-785 **DOI:** 10.1007/s10973-009-0344-5

**Published:** AUG 2009

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Phenotypic and genetic analysis of the antibiotic resistance patterns in uropathogenic Escherichia coli strains

**Author(s):** Mladin, C; **Chifiriuc, MC**; Palade, A; Usein, CR; Slavu, CL; Alina, R; Damian, M

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 15 **Issue:** 2 **Pages:** 5078-5086

**Published:** MAR-APR 2010

**ISSN:** 1224-5984

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NEW 2-(4-ETHYL-PHENOXYMETHYL)BENZOIC ACID THIOUREIDES. SYNTHESIS, SPECTRAL ANALYSES AND MICROBIOLOGICAL ASSAYS

**Author(s):** Limban, C; Missir, AV; Chirita, IC; Nitulescu, GM; Draghici, C; Caproiu, MT;

**Chifiriuc, MC**; Dracea, ON

**Source:** REVUE ROUMAINE DE CHIMIE **Volume:** 54 **Issue:** 8 **Pages:** 637-

+ **Published:** AUG 2009

**ISSN:** 0035-3930

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Thermal behaviour of new biological active cadmium mixed ligands complexes

**Author(s):** Badea, M; Olar, R; Marinescu, D; Lazar, V; **Chifiriuc, C**; Vasile, G

**Source:** JOURNAL OF THERMAL ANALYSIS AND

CALORIMETRY **Volume:** 97 **Issue:** 2 **Pages:** 781-785 **DOI:** 10.1007/s10973-009-0344-5

**Published:** AUG 2009

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Evaluation and monitoring of quorum sensing soluble mediators implicated in the regulation of bacterial growth in Vibrio strains

**Author(s):** Israil, AM); **Chifiriuc, MC**; Delcaru, C; Iordache, C; Pelinescu, D; Sasarman, E

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 2 **Pages:** 4211-4224

**Published:** MAR-APR 2009

**ISSN:** 1224-5984

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Isolation and identification of some Lactobacillus and Enterococcus strains by a polyphasic taxonomical approach

**Author(s):** Pelinescu, DR; Sasarman, E; **Chifiriuc, MC**; Stoica, I; Nohit, AM; Avram, I; Serbancea, F; Dimov, TV

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 14 **Issue:** 2 **Pages:** 4225-4233

**Published:** MAR-APR 2009

**ISSN:** 1224-5984

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Synthesis, Characterization and Antimicrobial Activity Evaluation of Some New Derivatives of 6,11-dihydrodibenzo[b,e]thiepin 5,5-dioxide

**Author(s):** Stecoza, CE; Caproiu, MT; Draghici, C; **Chifiriuc, MC**; Dracea, NO

**Source:** REVISTA DE CHIMIE **Volume:** 60 **Issue:** 2 **Pages:** 137-141 **Published:** FEB 2009

**ISSN:** 0034-7752

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Virulence, pathogenicity, antibiotic resistance and plasmid profile of Escherichia coli strains isolated from drinking and recreational waters

**Author(s):** Panus, E; **Chifiriuc, MC**; Bucur, M; Cernat, R; Mitache, M; Nedelcu, D; Bleotu, C; Valeanu, D; Lazar, V; Rosoiu, N

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 3 **Pages:** 3695-3700

**Published:** MAY-JUN 2008

**ISSN:** 1224-5984

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Screening of molecular markers of quorum sensing in Pseudomonas aeruginosa strains isolated from clinical infections

**Author(s):** Cotar, AI; Dinu, S; **Chifiriuc, MC**; Banu, O; Iordache, C; Larion, C; Bucur, M; Dracea, O; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 3 **Pages:** 3765-3770

**Published:** MAY-JUN 2008

**ISSN:** 1224-5984

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Molecular markers of quorum-sensing and virulence gene regulators in Staphylococcus aureus strains isolated from biofilm associated infections

**Author(s):** Cotar, AI; Dinu, S; **Chifiriuc, MC**; Banu, O; Iordache, C; Lixandru, M; Dracea, O; Bucur, M; Lazar, V

**Source:** ROMANIAN BIOTECHNOLOGICAL LETTERS **Volume:** 13 **Issue:** 3 **Pages:** 3771-3778

**Published:** MAY-JUN 2008

**ISSN:** 1224-5984

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Copper(II) complexes with ligands derived from 4-amino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one: Synthesis and biological activity

**Author(s):** Rosu, T; Pasculescu, S; Lazar, V; **Chifiriuc, C**; Cernat, R

**Source:** MOLECULES **Volume:** 11 **Issue:** 11 **Pages:** 904-914

**DOI:** 10.3390/11110904 **Published:** NOV 2006

**ISSN:** 1420-3049

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Thioureides of 2-(phenoxyethyl)benzoic acid 4-R substituted: A novel class of anti-parasitic compounds

**Author(s):** Muller, J; Limban, C; Stadelmann, B; Missir, AV; Chirita, IC; **Chifiriuc, MC**; Nitulescu, GM; Hemphill, A

**Source:** PARASITOLOGY INTERNATIONAL **Volume:** 58 **Issue:** 2 **Pages:** 128-135

**DOI:** 10.1016/j.parint.2008.12.003 **Published:** JUN 2009

Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays

**Author(s):** Cristescu, R; Popescu, C; Socol, G; Iordache, I; Mihailescu, IN; Mihaiescu, DE; Grumezescu, AM; Balan, A; Stamatina, I; **Chifiriuc, C**; Bleotu, C; Saviuc, C; Popa, M; Chrisey, DB

**Source:** APPLIED SURFACE SCIENCE **Volume:** 258 **Issue:** 23 **Pages:** 9250-9255

**DOI:** 10.1016/j.apsusc.2012.02.055 **Published:** SEP 15 2012

**ISSN:** 0169-4332

**eISSN:** 1873-5584

**ARTICOLE PUBLICATE ÎN REVISTE INDEXATE BDI/ESCI**

1. Mariana Carmen **CHIFIRIUC**, Camelia MIHĂESCU, Grigore MIHĂESCU PROVOCĂRILE PANDEMIILOR VIRALE CU TRANSMITERE RESPIRATORIE: DE LA VARIOLĂ LA COVID-19 "Studii și articole de istorie", vol. LXXXVIII, 2020, pp. 7-24
2. Adriana Pistol & Mihaela Leustean & Denisa Janta & Teodora Vremera & Oana Nicolescu & Mihaela Magdalena Mitache & Mariana-Carmen **CHIFIRIUC** & Florentina Ligia Furtunescu The Seroprevalence of SARS-CoV-2 Antibodies in Romania - First Prevalence Survey Biomedical Journal of Scientific & Technical Research, Biomedical Research Network+, LLC, vol. 39(1), pages 30902-30908, September.
3. Grigore MIHAESCU, Irina-Alina CUCU, Gratiela GRADISTEANU , Magda Mihaela MITACHE and Mariana Carmen **CHIFIRIUC** ANTI-SARS-CoV-2 IMMUNE RESPONSE AND PREVENTION OF COVID-19 PANDEMIC BY VACCINATION THE PUBLISHING HOUSE MEDICINE OF THE ROMANIAN ACADEMY, Proc. Rom. Acad., Series B, 2021, 23(1), p. 100-107
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