# Articole ISI strainate

| *Nr.* | *Autorii* | *Titlul lucrarii* | *Titlul revistei, vol, pagini (interval)* | *Factor de impact* | *Anul* |
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| 78 | Ana Neacsu, Daniela Gheorghe, Cornelia Marinescu, Elena Stancu, Victorita Tecuceanu, Crinu Ciuculescu | The effect of gamma rays upon L-proline and 4-hydroxy-L-proline. A thermochemical study | Radiat. Phys. Chem., 156, 115â€“127. | 1,984 | 2019 |
| 79 | M. Voicescu*, S. Ionescu, J. M. Calderon-Moreno, V. S. Teodorescu, M. Anastasescu, D. C. Culita, | Tryptophan / Dextran70 based - Fluorescent Silver Nanoparticles: Synthesis and Physicochemical Properties, | Journal of Fluorescence 29 (4), 981-992 | 1,913 | 2019 |
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| 81 | D. Culita, L. Dyakova, G. Marinescu, T. Zhivkova, R. Spasov, L. Patron, R. Alexandrova, O. Oprea | Synthesis, characterization and cytotoxic activity of Co(II), Ni(II), Cu(II), and Zn(II) complexes with nonsteroidal antiinflamatory drug isoxicam as ligandâ€□ | J. Inorg. Organomet. Polym. Mater., 29(2), 580-591. | 1,754 | 2019 |
| 82 | Maria Rapa, Raluca Nicoleta Darie-Nita, Petruta Preda, Viorica Coroiu, Rodica Tatia, Cornelia Vasile, Ecaterina Matei, Andra Mihaela Predescu & Monica-Elisabeta Maxim | PLA/collagen hydrolysate/silver nanoparticles bionanocomposites for potential antimicrobial urinary drains | Polymer-Plastics Technology and Materials, 2019, DOI: 10.1080/25740881.2019.1603999 | 1,705 | 2019 |
| 83 | Mihai Raduca, Cristian D. Ene, Sorana Ionescu, Mihaela Florea, Augustin M. Madalan | Coordination polymers and a dinuclear complex constructed from zinc(II) ions and fluorescein: iodine adsorption and optical properties | J. Coord. Chem., 72(8), 1222-1237 | 1,703 | 2019 |
| 84 | P. Petrik, A. Romanenko, B. Kalas, L Peter, T. Novotny, E. Perez-Fero, B. Fodor, E. Agocs, T. Lohner, S. Kurunczi, M. Stoica, M. Gartner, Z. Hozer | Optical Properties of Oxidized, Hydrogenated, and Native Zirconium Surfaces for Wavelengths from 0.3 to 25mm - A Study by Ex Situ and In Situ Spectroscopic Ellipsometry | Physica Status Solidi A 216 (8) 1800676 | 1,606 | 2019 |

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| 86 | I. Ion, G.R. Ivan, R.M. Senin, S.M. Doncea, L. Capra, C. Modrogan, O. Oprea, G. Stinga, O. Orbulet, A.C. Ion, | Adsorption of triclocarban (TCC) onto fullerene C60 in simulated environmental aqueous conditions | Separation Science and Technology, 54, 2759-2772 | 1,354 | 2019 |
| 87 | G. Petcu, E. M. Anghel, S. Somacescu, S. Preda, D. Culita, S. Mocanu, M. Ciobanu, V. Parvulescu | Hierarchical Zeolite Y Containing Ti and Fe Oxides as Photocatalysts for Degradation of Amoxicillin | J. Nanosci. Nanotechnol., 20, 1158â€“1169 | 1,354 | 2019 |
| 88 | Violeta Niculescu, Nicolae Aldea, Vasile Rednic, Viorica Parvulescu | Platinum Mesoporous Silica Catalysts for Liquid Media Oxidation | ANALYTICAL LETTERS, 52, 5-19 | 1,248 | 2019 |
| 89 | O. Demidenko, A. Zhyvulka, K. Yanushkevich, A. Galias, V. Constantin, E.I. Neacsu,C. Donath, A.M. Popescu | Magnetic properties of stainless steels under corrosive action of based on choline chloride ionic liquids | Journal of Magnetism and Magnetic Materials, 477, p.74-76 | 0,000 | 2019 |

**Factor de impact cumulat: 321.708** **321,708**

**FI/articol strainatate = 3.615** **3,615**

**FI/articol tara = 1.196** **1,196**

**FI/articol = 3.246** **3,246**

# Articole ISI tara

| *Nr.* | *Autorii* | *Titlul lucrarii* | *Titlul revistei, vol, pagini (interval)* | *Factor de impact* | *Anul* |
|---|---|---|---|---|---|
| 1 | Daniela Gheorghe, Ana Neacsu | Heat of some plant biomass species for biofuels production | Rev. Roum. Chim. 64(7), 633-639. | 0,395 | 2019 |
| 2 | C. SIMONESCU, D. CULITA, V. MARINESCU, C. TARDEI, D. TALPEANU | Hydroxyapatite Nanoparticles for Acidic Mine Waters Remediation | Revista de Chimie, 70(9), 3167-3175 | 1,605 | 2019 |
| 3 | V.Malyshev, A.Gab, A.Survilas, C.Donath, E.I.Neacsu, V.Constantin*, A.M.Popescu* | Electroplating of Co-W and Co-Mo alloys from Na2WO4 ionic melts | Rev.Chim.(Bucharest), 70(3),p.871-874 | 1,605 | 2019 |
| 4 | I.Chervonyj, D.Listopad, A.Gab, V. Malyshev, E.I. Neacsuu, C.Donath, V.Constantin, A.M. Popescu* | On thermodynamic possibility of retort steel components interaction with titanium chlorides and oxygen during Kroll process | Rev.Chim.(Bucharest), 70(6), p.1924-1927 | 1,605 | 2019 |
| 5 | I. Chervonyj, D. Listopad, D. Shakhnin, V. Malyshev, C. Donath, E.I. Neacsu,V.Constantin, A.M.Popescu | X-ray diffraction and spectral investigation of the consequences of obtaining impurities from a material of a reactor to obtain the titanium sponge | Rev.Chim.(Bucharest), 70(7),p. 2352-2354 | 1,605 | 2019 |
| 6 | Mitu, Maria; Razus, Domnina; Oancea, Dumitru; | The developement of a new optical method to measure the delay time of spark ignition, | Studia Universitatis Babes-Bolyai Chemia, LXIV, 2, Tom II, 309-322. | 0,305 | 2019 |
| 7 | E.I.Neacsu,V.Constantin*,C.Donath,K.Yanushkevich, A.Zivulka, A.Galyas, O.Demidenko, A.M.Popescu | Corrosion Processes of Uranus B6 and Monel 400 Special Alloys in Deep Eutectic Solvents | Rev.Chim.(Bucharest) 70(8), | 1,605 | 2019 |
| 8 | Constantin, M.M., Corbu, C., Potop, V., Burcel, M., Mocanu, S., Ionita, G. | Evaluation of dry eye symptomatology at patients with keratoconus | Revista de ChimieVolume 70, 1, 92-95 | 1,605 | 2019 |
| 9 | V.C. Niculescu, M. Mircioiu, E.I. Geana, R. E. Ienete, N. Paun, V. Parvulescu | Silica Mesoporous Materials -an Efficient Sorbent for Wine Polyphenols Separation | Rev.Chim., 70, 1513-1517. | 1,605 | 2019 |
| 10 | Giurcan, Venera; Mitu, Maria; Razus, Domnina; D. Oancea | Experimental study and detailed kinetic modeling of laminar flame propagation in premixed stoichiometric n-butane-air mixture | Rev. Chimie, 70(4), 1125-1131 | 1,605 | 2019 |
| 11 | M. Teodorescu, V. T. Popa | Solution molar enthalpies for 1-butyl-3-methylimidazolium chloride + 1-propanol system at (303.56 and 318.68) K. | Rev. Roum. Chim., 64(5), 445-452. | 0,395 | 2019 |
| 12 | Adrian Volceanov, State, Razvan, Cosmin Marculescu, Eniko Volceanov | Zeolite-type catalysts used for pyrolysis of vegetal waste: synthesis and characterization | Revista Romana de Materiale, 49 (3), 331-338 | 0,661 | 2019 |
| 13 | S. Neagu, C. Anastasescu, I. Balint, M. Zaharescu, I. Ardelean, M. Enache | The response of Escherichia coli cells to the action of ZnSe based materials | Revista Romana de Materiale, 49(3), 322-330 | 0,661 | 2019 |
| 14 | Florentina Cristina Mihailescu, Marieta Balcan, Monica Elisabeta Maxim, Dan Florin Anghel | Combustible Microemulsions with Diesel and Diesel admixed with rapeseed oil | Revista de chimie, 70, 9, 2019, 3163-3166 | 1,605 | 2019 |

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| 15 | Georgeta Velciu, Alina Melinescu, Virgil Marinescu, Victor Fruth, Cristian Hornoiu, Maria Preda | La1-x, SrxCoO3-delta SOLID SOLUTIONS WITH A PEROVSKITE STRUCTURE (x= 0.4 and 0.5) | Revista Romana de Materiale / Romanian Journal of Materials 2019, 49 (2), 173 - 178 | 0,661 | 2019 |
| 16 | ALINA MELINESCU, GEORGETA VELCIU, VIRGIL MARINESCU, CRISTIAN HORNOIU, MARIA PREDA | Synthesis and Stability of the Strontium Cobaltite ThermallyTreated in Air | Rev.Chim.(Bucharest), 70, No. 9 , 3330-3334 | 1,605 | 2019 |
| | | | | **19,128** | |

**Factor de impact cumulat: 19.128**

**FI/articol tara** **1,1955**

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| 1 | Ionita Petre | I. Zarafu, A. Al Taweel, C. Limban, M. Popa, L. MÄƒruÈ›escu, C. Chifiriuc, G. Pircalabioru, D. Culita, C. Ghica, P. Ionita | Aminopropyl-silica functionalized with halogen-reactive compounds for antimicrobial applications | Mat. Chem. Phys., accepted 2019 | 2.781 | 2019 | 2020 |
| 2 | Ionita Petre | I. Zarafu, B. Patrascu, L. MÄƒruÈ›escu, C. Bleotu, C. Limban, A. TatibouÃ«t, M. C. Chifiriuc, P. Ionita | Bioevaluation of the antimicrobial and anti-proliferative potential of some derivatives of 3,5-dinitro-4-methoxyamino-benzoic acid | Farmacia, accepted 2019 | 1.527 | 2019 | 2020 |
| 3 | Ionita Petre | A. M. MÄƒdÄƒlan, M. Matache, P. Ionita | Synthesis and structural analysis of some nitroderivatives of a dopamine analog | Rev. Roum. Chim., accepted | 0,395 | 2019 | 2020 |
| 4 | Tanasescu Speranta Valeria | A. Giusti, R. Atluri, R.Tsekovska, A. Gajewicz, M.D. Apostolova, C. L. Battistelli, E. A.J. Bleeker, C. Bossa, J.Bouillard, M. Dusinska, P. GÃ³mez-FernÃ¡ndez, R. GrafstrÃ¶m, M.Gromelski, Y.Handzhiyski, N.R. Jacobsen, P. Jantunen, K. A. Jensen, A. Mech, J. M. Navas, P. Nymark, A.G. Oomen, T. Puzyn, K. Rasmussen, J. Riego Sintes, B.Suarez-Merino, S.Tanasescu, H. Wallin, A. Haase | Nanomaterial grouping: Existing approaches and future recommendations. | NanoImpact, 16, 100182, 1-18 (Review article) | | 2019 | fara isi |

# Brevete

| *Nr.* | *Denumire brevet* | *Colectiv brevet* | *Anul* |
|---|---|---|---|
| 1 | Bioaliaj Ti-Zr-Ta-Ag pentru implanturi ortopedice | Ecaterina Vasilescu, Jose Maria Calderon Moreno, Cora Vasilescu, Silviu Iulian Drob, D. Stanciu, S. Ivanescu, D. Ionita, M. Prodana, Nr 132031, 2019-06-28 Bucuresti | 2019 |
| 2 | PROCEDEU DE OBTINERE A UNUI ADSORBANT PE BAZÄ, DE SILICE MEZOPOROASÄ, FUNCTIONALIZATÄ, PENTRU ADSORBTIA IONILOR PB2+ DIN SOLUTII APOASE (133147-A2) | D. Culita, C.M. Simonescu, G. Marinescu, R. E. Patescu, C. Tardei, C. Deleanu | 2019 |
| 3 | Procedeu de obtinere a solutiei de precursori pentru depunerea prin metoda sol-gel a straturilor de PZT | M. Gheorghe, C. Moldovan, M. Gartner, G. Muscalu, H. Stroescu, C. Brasoveanu - 22.08.2019 | 2019 |
| 4 | Catalizator si procedeu pentru tratarea apelor impurificate cu azotati si compusi organici clorurati | Corina Bradu, Alina Olaru, Constantin Capat, Florica Papa, Ioan Balint, - Hotarare acordare brevet nr. 4/84 din 28.08.2019 | 2019 |
| 5 | Procedeu de acoperire antibacteriana a unei suprafete dintr-un aliaj ternar de titan prin metoda sonochimica | Jose Maria Calderon-Moreno, Popa Monica, Cora Vasilescu, Silviu-Iulian Drob, Anisoara Cimpean, Valentina Mitran, Nr 132032, 2019-06-28 Bucuresti | 2019 |
| 6 | Materiale nanocompozite pentru stocarea energiei termice la temperaturi ridicate, ce contin silice mezoporoasa si saruri anorganice | R.A. Mitran | 2019 |
| 7 | PCT/EP2019/058878, CO-CRYSTAL | Mihaela Maria Pop, Paula Vasilichia Bulieris, Ingemar Pongratz, Victor Fruth-Oprisan, Mitran Raul-Augustin | 2019 |
| 8 | Cerere brevet OSIM nr 00350/ 2019 Procedeu de obtinere a unor pelicule nanocompozite destinate protejarii componentelor arhitecturale litice ale patrimoniului cultural | Fruth-Oprisan Victor, Todan Ligia-Carmen, Predoana Luminita, Poenaru Iuliana, Aricov Ludmila, Leonties Anca Ruxandra, Ciobanu Elena-Madalina, Petcu Gabriela, Ion Rodica-Mariana, Iancu Lorena, Jecu Maria-Luiza, Raut Iuliana, Calin Mariana | 2019 |

# Capitole monografii straine

| *Nr.* | *Autorii capitolului* | *Titlu capitol* | *Coordonator volum* | *Titlu Volum (introduceti si nr. pagini)* | *Editura* | *Localitatea, tara* | *Anul* |
|---|---|---|---|---|---|---|---|
| 1 | C. Anastasescu, M. Anastasescu, I. Balint, M. Zaharescu | SiO2 based materials for immobilization of enzymes | Prof. Simona Clichici and Dr. Gabriela Adriana Filip | Nanomaterials - Toxicity, Human Health and Environment (1-21); ISBN 978-1-78984-617-1 | IntechOpen | London, UK | 2019 |
| 2 | Gabriela Ionita, Iulia Matei | Application of riboflavin photochemical properties in hydrogel synthesis | Dr. Luqman Ali Shah | Hydrogels, Microgels and Nanogels | IntechOpen | London, UK | 2019 |
| 3 | Adina Magdalena Musuc and Vlad Tudor Popa | Chapter 3. Rosmarinus officinalis: A Natural Additive in Active and Biodegradable Food Packaging | Prathamesh Gorawala (Editor) Srushti Mandhatri (Editor) | Agricultural Research Updates. Volume 25 | Nova Science Publishers | USA | 2019 |
| 4 | Raul-Augustin Mitran, Mihaela Deaconu, Cristian Matei, Daniela Berger | Mesoporous Silica as Carrier for Drug-Delivery Systems | Shyam S. Mohapatra Shivendu Ranjan Nandita Dasgupta Raghvendra Kumar Mishra Sabu Thomas | Nano-carriers for Drug Delivery: Nanoscience and Nanotechnology in Drug Delivery ,11, 351-374 | Elsevier | Amsterdam, Olanda | 2019 |
| 5 | V. Parvulescu, M. Ciobanu, G. Petcu | Immobilization of Semiconductor Photocatalysts | Chaudhery Mustansar Hussain, Ajay Kumar Mishra | Handbook of Photocatalytic Materials: Fundamentals, Fabrications, and Water Resources Applications (30p) | Elsevier | Amsterdam, Olanda | 2019 |
| 6 | V. Parvulescu | Catalytic behavior of metal active sites from modified mesoporous silicas in oxidation of organic compounds (20p) | Rozina Khattak | Redox | IntechOpen | London, UK | 2019 |

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| 7 | Juan JoséGarcía-Guzmán, DavidLópez-Iglesias, Mariana Marin, Cecilia Lete, Stelian Lupu, José María Palacios-Santander, LauraCubillana-Aguilera | Electrochemical Biosensors for Antioxidants (41p) | Advanced biosensors for health care applications | Dr. Inamuddin, Raju Khan, Ali Mohammad, Abdullah M. Asiri | Elsevier | Amsterdam, Olanda | 2019 |

# Lucrari non-ISI

| *Nr.* | *Autorii* | *Titlul lucrarii* | *Titlul revistei, vol, pagini (inte* | *Anul* |
|---|---|---|---|---|
| 1 | T. Zhivkova, G. Marinescu, L. Dyakova, D. Culita, R. Spasov, P. Mitrenga, R. Kalfin, L. Patron, R. Alexandrova | ZN(II)/AU(I) AND ZN(II)/AG(I) COMPLEXES WITH SALEN SCHIFF BASE EXPRESS PROMISING CYTOTOXIC ACTIVITY IN HUMAN CANCER CELLS | Asian Journal of Pharmaceutical and Clinical Research, 12(1), 458-464 | 2019 |
| 2 | | Kinetics of the thermal disappearance of radicals formed during the radiolysis of L- | Chem. Rep., 1(1), 13-21 | 2019 |
| 3 | Brandes, Elisabeth; Hirsch, Werner; Mitu, Maria; Zakel, Sabine. | Ignition temperatures of combustible liquids in mixtures of air with oxygen or dinitrogen oxide | Proc. 27-th ICDERS (Intern. Colloq. Dynamics Explos. Reactive Syst.), Paper 073, Beijing, China. | 2019 |
| 4 | A.I.Galyas,O.Demidenko, A.Zhyvulka, K.Yanushkevich, A.M.Popescu, v.Constantin, E.I.Neacsu, C.Donath | Influence of ionic liquids on morphologz, structure and magnetic properties of Ol44, Ol52 and S.4571 steels | Journal of BRFFI â€“Bulletin of Belarousian Research Foundation, ISSN 1818-9830 vol.87, nr.1, p.52-59 | 2019 |
| 5 | V. Purcar, R. Manea, V. Raditoiu, A. Raditoiu, F.M. Raduly, A. Frone, M. Anastasescu, G.C. Ispas, L.E. Wagner | Preparation of Transparent Sol-Gel Modified Silica Hydrophobic Coatings on Plastic Substrates | Multidisciplinary Digital Publishing Institute Proceedings 29(1), 79 | 2019 |

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| 6 | Dan Caragheorgheopol | Probabilistic and Monte-Carlo methods compared on a practical example | Proceedings of the 16-th Workshop on Mathematics, Computer Science and Technical Education, Department of Mathematics and Computer Science, T.U.C.E.B., 2019, p.10-14 | 2019 |
| 7 | Daniel Tudor, Dan Caragheorgheopol, Lucian Nita | Applications of scalar product in Euclidean geometry | Proceedings of the 16-th Workshop on Mathematics, Computer Science and Technical Education, Department of Mathematics and Computer Science, T.U.C.E.B., 2019, p.121-126. | 2019 |
| 8 | C. Ninciuleanu, R. Ianchis, E. Alexandrescu, B. Trica, S. Preda, C. Scomoroscenco, C. Mihaescu, C. Nistor, C. Petcu, M. Teodorescu, M. | Composite Hydrogels Based on Poly (Methacrilyc Acid) Reinforced with Laponite Inorganic Filler | Multidisciplinary Digital Publishing Institute Proceedings, 29 (1), pp. 23-24 (extended abstract) | 2019 |

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| 9 | A. Giusti, R. Atluri, R.Tsekovska, A. Gajewicz, M.D. Apostolova, C. L. Battistelli, E. A.J. Bleeker, C. Bossa, J.Bouillard, M. Dusinska, P. GÃ³mez-FernÃ¡ndez, R. GrafstrÃ¶m, M.Gromelski, Y.Handzhiyski, N.R. Jacobsen, P. Jantunen, K. A. Jensen, A. Mech, J. M. Navas, P. Nymark, A.G. Oomen, T. Puzyn, K. Rasmussen, J. Riego Sintes, B.Suarez-Merino, S.Tanasescu, H. Wallin, A. Haase | Nanomaterial grouping: Existing approaches and future recommendations. | NanoImpact, 16, 100182, 1-18 (Review article) | 2019 |

# Premii internationale

| *Nr.* | *Nume, prenume* | *Titlu premiu* | *Anul* |
|---|---|---|---|
| 1 | Rotaru, Andrei | STK Young Scientist Award 2019 (Award offered by the Swiss Association for Thermal Analysis and Calorimetry at the 43rd Annual Meeting of STK 2019, Thun, Switzerland) | 2019 |

# Citari ISI Lucrari

| *Nr.* | *Autorii* | *Titlul lucrarii* | *Titlul reviste* | *Anul* | *Autorii* | *Titlul lucrarii* | *Titlul revistei,* | *Anul* |
|---|---|---|---|---|---|---|---|---|
| 1 | E. M. Anghel, P.M. Pavel, M. Constantinescu, S. Petrescu, I. Atkinson, E. Buixaderas | Thermal transfer performance of a spherical encapsulated PEG 6000-based composite for thermal energy storage | Applied Energy 208, 1222-1231 | 2017 | J. Yan, X. Yang | Thermal energy storage | Applied Energy 240, a1-a6 | 2019 |
| 2 | M. Teodorescu, K. Aim, I. Wichterle | Isothermal vapor−liquid equilibrium in the quaternary water + 2-propanol + acetic acid + isopropyl acetate system with chemical reaction | J. Chem. Eng. Data, 46, 261–266. | 2001 | H. Jia, H. Wang, K. Ma, M. Yu, Z. Zhu, Y. Wang | Effect of thermodynamic parameters on prediction of phase behavior and process design of extractive distillation | Chinese J. Chem. Eng., 26, 993-1002. | 2019 |
| 3 | S. Petrescu, M.Constantinescu, E.M.Anghel, I. Atkinson, M. Olteanu, M. Zaharescu | Structural and physico-chemical characterization of some soda lime zinc alumino-silicate glasses | J. Non-Cryst. Solids 358, 3280-3288. | 2012 | A. Madheshiya, K.K. Dey, M. Ghosh, J. Singh, C. Gautam | Synthesis, structural, optical and solid state NMR study of lead bismuth titanate borosilicate glasses | J. Non-Cryst. Solids 503-504, 288-296. | 2019 |
| 4 | A. Precupas, R. Sandu, A. R. Leonties, D. - F. Anghel. V. T. Popa | Complex interaction of caffeic acid with bovine serum albumin: calorimetric, spectroscopic and molecular docking evidence | New J. Chem. 41 (24) 15003-15015 | 2017 | Rachana Srivastava, Md. Sayem Alam | Role of (single/double chain surfactant) micelles on the protein aggregation | INT. J. Biol. Macromol., 122, 72-81 | 2019 |
| 5 | E. M. Anghel, P.M. Pavel, M. Constantinescu, S. Petrescu, I. Atkinson, E. Buixaderas | Thermal transfer performance of a spherical encapsulated PEG 6000-based composite for thermal energy storage | Applied Energy 208, 1222-1231 | 2017 | F.-L. He, X. Deng, Y.-Q. Zhou, T.-D. Zhang, Y.-L. Liu, Y.-J. Ye, D.-C. Yin | Controlled release of antibiotics from poly-ε-caprolactone/polyethylene glycol wound dressing fabricated by direct-writing melt electrospinning | Polymers for Advanced Technologies 30, 425-434. | 2019 |
| 6 | E.M. Anghel, A. Georgiev, S. Petrescu, R. Popov, M. Constantinescu | Thermo-physical characterization of some paraffins used as phase change materials for thermal energy storage | Journal of Thermal Analysis and Calorimetry 117, 557-566 | 2014 | P.M. Kumar, K. Mylsamy | Experimental investigation of solar water heater integrated with a nanocomposite phase change material: Energetic and exergetic approach | Journal of Thermal Analysis and Calorimetry 136, 121-132. | 2019 |
| 7 | L. F. Cabeza, C. Barreneche, I. Martorell, L. Miró, S. Sari-Bey; M. Fois; H. O. Paksoy; N. Sahan; R. Weber; M. Constantinescu; E. M. Anghel et.al | Unconventional technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties | Renewable & Sustainable Energy Reviews 43, 1399–1414. | 2015 | U. Berardi, S. Soudian | Experimental investigation of latent heat thermal energy storage using PCMs with different melting temperatures for building retrofit | Energy and Buildings185, 180-195. | 2019 |
| 8 | Greta Patrinoiu, Jose Maria Calderón-Moreno, Daniela C. Culita, Ruxandra Birjega, Ramona Ene, Oana Carp | Carbonaceous spheres - an unusual template for solid metal oxide mesoscale spheres: application to ZnO spheres | J. Solid State Chem., 202, 291-299. | 2013 | Greta Patrinoiu, Mohammed Dyia Hussien, José Maria Calderón-Moreno, Irina Atkinson, Adina M. Musuc, Raluca N. Ion, Anisoara Cimpean, Mariana C. Chifiriuc, Oana Carp | Eco-friendly synthesized spherical ZnO materials: Effect of the core-shell to solid morphology transition on antimicrobial activity | Materials Science & Engineering C 97, 438–450 | 2019 |

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| 9 | D. Visinescu, M. Scurtu, R. Negrea, R. Birjega, D.C. Culita, C. Chifiriuc, C. Draghici, J. Calderon Moreno, A. Musuc, I. Balint, O. Carp | Additive-free 1,4-butanediol mediated synthesis: a suitable route to obtain nanostructured, mesoporous spherical zinc oxide materials with multifunctional properties | RSC Advances, 5, 99976-99989 | 2015 | G. Patrinoiu, M.D. Hussien, J. M. Calderón-Moreno, I. Atkinson, A. M. Musuc, R. N. Ion, A. Cimpean, M. C. Chifiriuc, O. Carp | Eco-friendly synthesized spherical ZnO materials: Effect of the core-shell to solid morphology transition on antimicrobial activity | Materials Science & Engineering C 97, 438–450 | 2019 |
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| 2622 | Diana - Carolina Ilies Elena Pahontu Sergiu Shova Rodica Georgescu Nicolae Stanica Olar Rodica Aurelian Petru Gulea Tudor Rosu | Synthesis, characterization, crystal structure and antimicrobial activity of copper(II) complexes with a thiosemicarbazone derived from 3-formyl-6-methylchromone | October 2014 Polyhedron 81:123–131 DOI: 10.1016/j.poly.2014.05.074 | 2014 | Elena Pahonțu Maria Proks-Mabda Sergiu Shova Cristina Elena Dinu Pîrvu | Synthesis, characterization, molecular docking studies and in vitro screening of new metal complexes with Schiff base as antimicrobial and antiproliferative agents | September 2019 Applied Organometallic Chemistry DOI: 10.1002/aoc.5185 | 2019 |
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# Granturi strainatate

| *Nr.* | *Utilizator* | *Nume grant (contract)* | *Director sau Responsabil* | *Tipul si Nr. Contractului (FP 6, NATO, etc.)* | *Suma (lei)* | *Colectivul Grantului* | *Anul* |
|---|---|---|---|---|---|---|---|
| 1 | Tanasescu Speranta Valeria | Development and implementation of Grouping and Safe-by-Design approaches within regulatory frameworks, NANoREG II, H2020-NMP-2014-two-stage, H2020: Research & Innovation Actions | Responsabil stiintific Dr. Speranta Tanasescu | Proiect European din cadrul Programului HORIZON 2020; Agreement number: 646221, 2015- 2019 | 46892 | Dr. Speranta Tanasescu, Dr. Daniela Gheorghe,Dr. Alina Botea-Petcu , Dr. Romica Sandu, Dr. Florina Teodorescu, Dr. Aurica Precupas, Dr. V.T. Popa, Drd. Alexandru Munteanu | 2019 |
| 2 | Tanasescu Speranta Valeria | Safety testing in the life cycle of nanotechnology-enabled medical technologies for health (SAFE-N-MEDTECH), Program H2020-NMBP-TO-IND-2018-2020 (FOUNDATIONS FOR TOMORROW'S INDUSTRY) | Responsabil stiintific Dr. Speranta Tanasescu | Topic: DT-NMBP-02-2018, Type of action: IA, Grant nr. 814607, 2019-2022 | 368294 | Florina Teodorescu, Romica Sandu, Daniela Chiscan, Ana Neacsu, Alina Botea-Petcu, Andreea Neacsu, Cornelia Marinescu, Ancuta Sofronia | 2019 |
| 3 | Tanasescu Speranta Valeria | Targeted multifunctional nanoemulsions to interrupt metastatic progression (METASTARG), Program EURONANOMED III JOINT TRANSNATIONAL CALL FOR PROPOSALS (2018) FOR "EUROPEAN INNOVATIVE RESEARCH & TECHNOLOGICAL DEVELOPMENT PROJECTS IN NANOMEDICINE"□ | Responsabil stiintific Dr. Speranta Tanasescu | Grant nr. 90/2019-2021 | 312220 | Florina Teodorescu, Romica Sandu, Daniela Chiscan, Ana Neacsu, Alina Botea-Petcu, Andreea Neacsu | 2019 |
| 4 | Gartner Mariuca | Sistem inteligent autonom pentru detectarea compusilor organici volatili | Responsabil | M-ERA.NET- VOC-DETECT 112/2019 | 131600 | M. Gartner, M. Zaharescu, M. Anastasescu, S. Mihaiu, J. M. Calderon, M.Stoica, M. Nicolescu, H. Stroescu, E. Tenea, S. Preda, C. Hornoiu, P. Chesler, C. Vladut, M. Chelu, C. Penea, C. Ionita | 2019 |
| 5 | Somacescu Simona | Designul holistic al electrocatalizatorilor folositi in celule de combustie de putere mica | Responsabil | M-ERANET Nr. 110/2019 | 94000 | Petre Osiceanu, Jose Maria Calderon Moreno, Izabella Dascalu, Daniela Cristina Culita, Madalina Tudose | 2019 |
| | | | | **Valoare totala (lei)** | **953006** | | |

# Granturi tara

| *Nr.* | *Nume grant (contract)* | *Director sau Responsabil* | *Tipul si Nr. Contractului (PNCDI, CEEX, GAR, CNCSIS, etc)* | *Suma (lei)* | *Colectivul Grantului* | *Anul* |
|---|---|---|---|---|---|---|
| 1 | APPLICATION OF 3D CELL CULTURES TO STUDY ANTITUMOR ACTIVITY OF METAL COMPOUNDS | D. Culita | Schimb interacademic Romania - Bulgaria (Institute of Experimental Morphology, Pathology and Anthropology with Museum, Bulgarian Academy of Science) | | D. Culita, G. Marinescu, L. Patron | 2019 |
| 2 | New versatile dicyanidometallate precursors [MIII(L)(CN)2]- for designing heterometallic molecular magnetic materials | Gabriela Marinescu | PCE-2016, contract 88/2017 | 298789 | Gabriela Marinescu, Daniela Cristina Culita, Cecilia Lete, Catalin Maxim, Violeta Tudor, Dragos Negreanu, Andreea Dogaru, Simone Nica | 2019 |
| 3 | Generator eficient de energie pentru retele de senzori greu accesibili si dispozitive de putere scazuta pentru aplicatii aerospatiale | M. Gartner | PNIII,STAR ROSA 164/2017 | 20428 | M. Gartner, M. Zaharescu, M. Anastasescu, J. Calderon, H. Stroescu, S. Preda, C. Penea | 2019 |
| 4 | Senzori si sisteme integrate electronice si fotonice pentru securitatea persoanelor si a infrastructurilor -P1- Microsistem portabil bazate pe arii de senzori TF BAR pentru detectie multipla substante explozibile | M. Gartner | PNIII,71PCCDI/2018 | 55350 | M. Gartner, M. Zaharescu, C. Penea, S. Mihaiu, J. Calderon, M. Nicolescu, E. Tenea, C. Vladut, | 2019 |
| 5 | Senzori si sisteme integrate electronice si fotonice pentru securitatea persoanelor si a infrastructurilor -P4- Microgeneratoare de energie pentru alimentarea senzorilor si a microsistemelor portabile | M. Gartner | PNIII,71PCCDI/2018 | 76875 | M. Gartner, C. Penea, M. Anastasescu, S. Preda, J. Calderon, M. Stoica, H. Stroescu, C. Ionita, | 2019 |
| 6 | INTERACTII NONCOVALENTE IN HYDROGELURI POLIMERICE SI HIBRIDE INVESTIGATE PRIN SPECTROSCOPIE DE REZONANTA ELECTRONICA DE SPIN | E. G. Ionita | PN-III-P4-ID-PCE-2016-0734 contract nr. 86 â„2017 | 313000 | Ionita Elena Gabriela - project leader, Matei Iulia, Precupas Aurica, Popa Vlad Tudor, Leonties Anca Ruxandra, Hristea Elena, Micut Marian, Staicu Teodora, Culita Daniela, Munteanu Cornel, Mocanu Sorin, Aricov Ludmila PhD student Popescu Irina Elena, MS student Stancu Alina, MS student Mainea Zamfirica, MS student Leau Alexandra Sorina, MS student Neculae Florian Vincentiu Alexandru, MS student Mihai Marius Alexandru | 2019 |

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| 7 | Tehnologii noi de diagnoza si tratament pentru conservarea si revitalizarea componentelor arheologice ale patrimoniului cultural naÈ›ional, | Dr. Predoana Luminita | PN-III-P1-1.2-PCCDI2017-0476 contract nr. 51PCCDI/2018 | 336184 | L. Predoana, V. Fruth, I. Atkinson, G. Marinescu, D. Culita, D. Gingasu, I. Mandru, E. M. Anghel, H. Stroescu,,M. Stoica, O. Mocioiu, J. Pandele, R. Mitran, L. Todan, S. Petrescu, M. Ciobanu, V. Bratan, L. Aricon, A. R. Leontis, S. Preda, A. Rusu, C. Vladut, G. Petcu | 2019 |
| 8 | Nanorestrangere in silice mezoporoasa: Catre materiale de stocare de energie de noua generatie | Director | PNCDI TE | 264975 | Mitran Raul - Augustin; Deaconu Mihaela; Vladut Cristina-Maria; Brezoiu Ana Maria; Buhaeanu Lucian; Pandele Cusu Jeanina; Mocioiu Oana Catalina; Culita Daniela Cristina | 2019 |
| 9 | VALORIFICAREA COMPLEXÄ, A BIORESURSELOR DIN ZONA MÄ‚RII NEGRE PRIN DEZVOLTAREA ÅžI APLICAREA UNOR BIOTEHNOLOGII INOVATOARE ÅžI EMERGENTE | R-A Mitran | PNCDI PCCDI 85/2018 | 117624 | Mitran Raul-Augustin; Pandele-Cusu Jeanina; E. M. Anghel; Lete Cecilia; Marin Mariana; Somacescu Simona; Lincu Daniel Florin | 2019 |
| 10 | 77/2017 Oxizi de grafena functionalizati cu compusi organici- materiale composite cu multiple aplicatii | Petre Ionita | PNIII-P4-ID-PCE-2016-0187 | 312702 | | 2019 |
| 11 | Proiect tip Mobilitatate pentru Cercetatori (MC) | Dr. Diana Visinescu | PN-III-P1-1.1-MC- 2019-2199 | 22000 | | 2019 |
| 12 | PN-III-P1-1.1-MC-2019 Stagiu de cercetare Franta -max 89 zile | Florina Teodorescu | admis la finantare 28.10.2019 | 22000 | | 2019 |
| 13 | Proiect bilateral interacademic: Romanian Academy - National Academy of Sciences of Belarus, Belarusian Republican Foundation for Fundamental Research and Mogilev State University of Food Technologies (MSUFT) - title: "Study of thermophysical properties for mixtures of 1-chlorohexane with hydrocarbons from different classes" | Dana Dragoescu | AR- FRBCF 2018-2019 | 3500 | Dana Dragoescu, Florinela Sirbu | 2019 |
| 14 | Proiect bilateral interacademic, cu titlul: "Structural and thermodynamic studies of aqueous solutions", in cadrul competitiei de proiecte intre Romanian Academy-Hungarian Academy of Sciences Partener din partea ungara: Wigner Research Centre for Physics, Department of Neutron Spectroscopy, Budapesta. | Dana Dragoescu | AR-HAS 2018-2020 | | Dana Dragoescu Florinela Sirbu | 2019 |
| 15 | Correlation between ionic conductivity and reducibility of Au and Cu catalysts on doped ceria: electric conductivity and temperature programmed reduction measurements | Gabriel Munteanu | Colaborare interacademica cu Institutul de cataliza din Sofia, Bulgaria | 15000 | Cristina Silvia Stoicescu, Razvan State, Cristian Hornoiu, Florica Papa | 2019 |
| 16 | Reduced semiconductor oxides for TCO, photocatalysis and gas sensing applications | Dr. Maria Zaharescu | Proiect Interacademic Romania - Ungaria 2019-2021 | | I. Atkinson, S. Mihaiu, L. Predoana, O. C. Mocioiu, J. Pandele Cusu, C. Vladut | 2019 |
| | | | **Valoare totala (lei)** | **1858427** | | |