

Articole ISI publicate in reviste din strainatate in anul 2021

Nr.	Autorii	Titlul lucrării	Titlul revistei, vol, pagini (interval)	Factor de impact	Anul
1	N. Jeliaskova, M.D. Apostolova, C. Andreoli, F. Barone, A. Barrick, C. Battistelli, C. Bossa, Alina Botea-Petcu, A. Chȃte, I. De Angelis, M. Dusinska, N. El Yamani, Daniela Gheorghe, A. Giusti, P. Gȃmez-Fernȃndez, R. Grafstrȃm, M. Gromelski, N. Raun Jacobsen, V. Jeliaskov, K. Alstrup Jensen, N. Kochev, P. Kohonen, N. Manier, E. Mariussen, A. Mech, J. Marȃ-a Navas, V. Paskaleva, Aurica Precupas, T. Puzyn, K. Rasmussen, P. Ritchie, I. Rodrȃ-guez Llopis, E. Rundȃn-Pran, Romica Sandu, N. Shandilya, Speranta Tanasescu, A. Haase, P. Nymark	Towards FAIR Nanosafety Data	Nature Nanotechnology 16(6), 644-654.	39,213	2021
2	M. Suta, F. Cimpoesu, W. Urland	The angular overlap model of ligand field theory for f elements: An intuitive approach building bridges between theory and experiment.	Coordination Chemistry Reviews, 441, 213981.	22,315	2021
3	S. Neatu, F. Neatu, M.-I. Chirica, I. Borbȃth, E. Talas, A. Tompos, S. Somacescu, P. Osiceanu, A. M. Folgado, A. Martinez Chaparro M. Florea	Recent progress on electrocatalysts and electrodes for portable fuel cells, Journal of Materials Chemistry A,	J. Mater. Chem. A, 9, 17065-17128	12,732	2021
4	Dr. Greta Patrinoiu, Dr. Jose M. Calderon-Moreno, Dr. Simona Somacescu, Dr. Adina M. Musuc, Dr. Tanta Spataru, Prof. Petre Ionita, Dr. Oana Carp	Rational Functionalization Towards Redox-Active TEMPO Stable Free-Radical-Hydrochar Composites	ChemSusChem 14(9), 2042-2049	8,928	2021

5	M. Tudose, E. M. Anghel, E.N. Hristea, M. Voicescu, S. Somacescu, D. Culita, A. M. Musuc, F. D. Dumitrascu, A.M. Hanganu, A. Kuncser, F.L. Zorila, M. Alexandru, M.A. Acasandrei, D.I. Savu	Benzofurazan derivatives modified graphene oxide nanocomposite: Physico-chemical characterization and interaction with bacterial and tumoral cells	Materials Science and Engineering C, 123, 112028	7,328	2021
6	Musuc, Adina M.; Anuta, Valentina; Atkinson, Irina; Sarbu, Iulian; Popa, Vlad T.; Munteanu, Cornel; Mircioiu, Constantin; Ozon, Emma A.; Nitulescu, George M.; Mitu, Mirela A.	Formulation of Chewable Tablets Containing Carbamazepine- β -cyclodextrin Inclusion Complex and F-Melt Disintegration Excipient. The Mathematical Modeling of the Release Kinetics of Carbamazepine	Pharmaceutics 13, 6: 915.	6,321	2021
7	Garc��a-Guzm��n, J.J., L��pez-Iglesias, D., Cubillana-Aguilera, L., Marin, Bellido-Milla D., M., Palacios Santander, J.M., Grigorescu, S. D., Lete, C., Lupu, S.	Silver nanostructures - poly(3,4-ethylenedioxythiophene) sensing material prepared by sinusoidal voltage procedure for detection of antioxidants	Electrochimica Acta, 393,139082	6,215	2021
8	Aurica Precupas, Romica Sandu, Alexandru V. F. Neculae, Andreea Neacsu, Vlad T. Popa	Calorimetric, spectroscopic and computational investigation of morin binding effect on bovine serum albumin stability	J. Mol. Liq., 333, 115953	6,165	2021
9	Gabriela Stinga, Baran Adriana, Alina Iovescu, Florina Branzoi, Dan-Florin Anghel	Impact of cationic surfactant on fluorescent complex of pyrene labeled poly(acrylic acid) and methylene blue	Journal of Molecular Liquids, 322,114545	6,165	2021
10	Dana Dr��goescu, Florinela Sirbu*, Laszlo Almasy	Study of the thermophysical properties for aqueous solutions of alkanediols binary mixtures	Journal of Molecular Liquids 335, 116150	6,165	2021

11	Florinela Sărbu, Dana Drăgoescu*, Alexander Shchamialiou	Optical and viscometric properties for 1-chlorohexane + toluene/tetradecane binary mixtures at temperatures between (298.15 to 318.15) K and atmospheric pressure	Journal of Molecular Liquids 339, 116171	6,165	2021
12	A. Băfan, L. Aricov, G. Stăngăf, A. Iovescu, A.R. Leontic, V.V. Jerca	The effect of C12E6 nonionic surfactant on the solubilization of Eosin Y in unmodified- and hydrophobically modified poly(acrylic acid) solutions	Journal of Molecular Liquids, in press https://doi.org/10.1016/j.molliq.2021.117103	6,165	2021
13	A. Balmori, R. Sandu, D. Gheorghe, A. Botea-Petcu, A. Precupas, S. Tanasescu, D. Sánchez-García, S. Borrós	Revising protein Corona Characterization; Combining ITC and NanoDSC to Understand the Interaction of Proteins with porous Nanoparticles	Frontiers in Bioengineering and Biotechnology, 9, 650281	5,890	2021
14	Christian Hazael Pérez-Beltran, Juan José García-a-Guzman, Bibiana Ferreira ,Osvaldo Estévez-Hernandez , David Lopez-Iglesias , Laura Cubillana-Aguilera ,Wolfgang Link, N. Stanica, Ana Maria Rosa da Costa , José María Palacios-Santander	One-minute and green synthesis of magnetic iron oxide nanoparticles assisted by design of experiments and high energy ultrasound: Application to biosensing and immunoprecipitation	Materials Science and Engineering: C Volume 123, 112023	5,880	2021
15	Madalina Ciobanu, Gabriela Petcu, E. M. Anghel, Florica Papa, Nicoleta G. Apostol, Daniela Cristina Culita, Irina Atkinson, Silviya Todorova, Maya Shopska, Anton Naydenov, Ralitsa Velinova, Viorica Parvulescu	Influence of Ce addition and Pt loading upon the catalytic properties of modified mesoporous PtTi-SBA-15 in total oxidation reactions	APPLIED CATALYSIS A-GENERAL, 619,118123	5,706	2021
16	Răzvan Nicolae State; Gabriela Ionescu; Mariana Pătrașcu; Adrian Volceanov; Dorin Boldor; Cosmin Mărculescu	Twin reactor catalytic assisted pyrolysis for food court waste conversion into high end chemicals	Journal of Analytical and Applied Pyrolysis, 160, 105351	5,541	2021

17	Laura.Navarrete, Mihaela Florea, Petre Osiceanu, Jose Maria Calderon-Moreno, Mihaela Trandafir, Simona Somacescu*, Jose Manuel Serra	NiO/Sr doped CeO ₂ . 85PrO ₃ . 10 ErO ₃ . 05O ₂ -Î' mesoarchitected catalyst for partial oxidation of CH ₄ and anode fueled by H ₂	Microporous and Mesoporous Materials Volume 323, 111171.	5,455	2021
18	Anda I Voicu, Sorina A GÂcrea, Adi Ghebaur, Cristina L Nistor, Andrei SÂrbu, Eugeniu Vasile, Raul Mitran, Horia Iovu	New nanocarriers based on Porous Clay Heterostructures (PCH) designed for methotrexate delivery	Microporous and Mesoporous Materials, 328, 111434	5,455	2021
19	C.M. Simonescu, A. Tatarus, D. Culita, N. Stanica, I.A. Ionescu, B. Butoi, A.M. Banici	Comparative Study of CoFe ₂ O ₄ Nanoparticles and CoFe ₂ O ₄ -Chitosan Composite for Congo Red and Methyl Orange Removal by Adsorption	Nanomaterials, 11(3), 711	5,076	2021
20	R. Leu Alexa, H. Iovu, B. Trica, C. Zaharia, A. Serafim, E. Alexandrescu, I.-C. Radu, G. Vlasceanu, S. Preda, C.M. Ninciuleanu, R. Ianchis	Assessment of Naturally Sourced Mineral Clays for the 3D Printing of Biopolymer-Based Nanocomposite Inks	Nanomaterials,11(3), 703	5,076	2021
21	M. Gabrovska, I. Ivanov, D. Nikolova, J. Krstic, A.M. Venezia, D. Crisan, M. Crisan, K. Tenchev, V. Idakiev, T. Tabakova,	Improved water-gas shift performance of Au/NiAl LDHs nanostructured catalysts via CeO ₂ addition.	Nanomaterials 2021, 11, 366	5,076	2021
22	I. Jinga, G. Popescu-Pelin, G. Socol, S. Mocanu, M. Tudose (corresponding), D. Culita, A. Kuncser, P. Ionita	Chemical Degradation of Methylene Blue Dye Using TiO ₂ /Au Nanoparticles	Nanomaterials 11, 2021, 160	5,076	2021

23	A. V. Paduraru, A. M. Musuc, O.C. Oprea, R. Trusca, F. Iordache, B. S. Vasile, E. Andronescu	Synthesis and characterization of photoluminescent Ce(III) and Ce(IV) substituted hydroxyapatite nanomaterials by co-precipitation method: cytotoxicity and biocompatibility evaluation	Nanomaterials, 11(8), 1911	5,076	2021
24	Paduraru, Andrei V., Ovidiu Oprea, Adina M. Musuc, Bogdan S. Vasile, Florin Iordache, and Ecaterina Andronescu.	Influence of Terbium Ions and Their Concentration on the Photoluminescence Properties of Hydroxyapatite for Biomedical Applications	Nanomaterials, 11(9), 2442.	5,076	2021
25	Victor Fruth, Ligia Todan, Cosmin Iulian Codrea, Iuliana Poenaru, Simona Petrescu, Ludmila Aricov, Madalina Ciobanu, Luiza Jecu, Rodica Mariana Ion, Luminita Predoana	Multifunctional Composite Coatings Based on Photoactive Metalâ€Oxide Nanopowders (MgO/TiO2) in Hydrophobic Polymer Matrix for Stone Heritage Conservation	Nanomaterials 2021, 11, 2586.	5,076	2021
26	V. MuÅŸat, E.M. Anghel, A. Zaharia, I. Atkinson, O. C. Mocioiu, M. BuÅŸilĂf, P. Alexandru	A Chitosanâ€Agarose Polysaccharideâ€Based Hydrogel for Biomimetic Remineralization of Dental Enamel	Biomolecules 11, 1137	4,879	2021
27	I. Atkinson, A. M. Seciu-Grama, O. C. Mocioiu, A. M. Mocioiu, L. Predoana, M. Voicescu, J. Pandele Cusu, R. M. Grigorescu, R. M. Ion, O. Craciunescu	Preparation and Biocompatibility of Poly Methyl Methacrylate (PMMA)-Mesoporous Bioactive Glass (MBG) Composite Scaffolds	Gels 7(4) 180	4,702	2021
28	R. Leu Alexa, R. Ianchis, D. Savu, M. Temelie, B. Trica, A. Serafim, G.M. Vlasceanu, E. Alexandrescu, S. Preda, H. Iovu	3D Printing of Alginate-Natural Clay Hydrogel-Based Nanocomposites	Gels, 7(4), 211	4,702	2021

29	V. Purcar, V. Raditoiu, A. Raditoiu, F.M. Raduly, R. Manea, A. Frone, M. Anastasescu, G.C. Ispas, L.E. Wagner, S. Caprarescu	Bilayer coatings based on silica materials and iron (III) phthalocyanine - sensitized TiO ₂ photocatalyst	Mater. Res. Bull. 138 (2021) 111222	4,641	2021
30	Marian Leulescu, Andrei Rotaru, Anca Moană, Gabriela Iacobescu, Ion Păflărie, Nicoleta Cioateră, Mariana Popescu, Marius Catalin Criveanu, Emilian Morăntale, Mihaela Bojan, Petre Rotaru	Azorubine: Physical, thermal and bioactive properties of the widely employed food, pharmaceutical and cosmetic red azo-dye material	Journal of Thermal Analysis and Calorimetry, 143(6), 3945-3967	4,626	2021
31	Sonia Degeratu, G.E. Subăirelu, Andrei Rotaru, Nicu G. Băzdoacă, Petre Rotaru	The electro-mechanical control of element NiTi shape memory alloy strip while bending, based on thermal analysis evidence	Journal of Thermal Analysis and Calorimetry, 143(5), 3805-3815	4,626	2021
32	E. Rusen, A. Mocanu, R. Țomoghi, D. Culita, R. A. Mitran, A. Dinescu, A. Matei, A. Diacon	Mechanism of polymer particles formation during the soap-free emulsion terpolymerization of styrene - acrylic acid α -N -(isopropyl acrylamide) for photonic crystals fabrication	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 614, 126158	4,539	2021
33	Raul-Augustin Mitran, Simona Ioniță, Daniel Lincu, Daniela Berger, Cristian Matei	A Review of Composite Phase Change Materials Based on Porous Silica Nanomaterials for Latent Heat Storage Applications	Molecules, 26, 241	4,411	2021
34	Mihaela-Ramona Buga, Adnana Alina Spinu-Zaulet, Cosmin Giorgian Ungureanu, Raul-Augustin Mitran, Eugeniu Vasile, Mihaela Florea, Florentina Neatu	Carbon-Coated SiO ₂ Composites as Promising Anode Material for Li-Ion Batteries	Molecules, 26, 4531	4,411	2021

35	Maria-Gabriela Alexandru, Diana Visinescu, Beatrice Cula, Sergiu Shova, Renato Rabelo, Nicol�s Moliner, Francesc Lloret, Joan Cano and Miguel Julve	A rare isostructural series of 3d–4f cyanido-bridged heterometallic squares obtained by assembling [FeIII{HB(pz)3}(CN)3]– and LnIII ions: synthesis, X-ray structure and cryomagnetic study	Dalton Trans., 50, 14640-14652	4,390	2021
36	Juan-Ram�n Jim�nez, Buqing Xu, Hasnaa El Said, Yanling Li, Jorgen von Bardeleben, Lise Marie Chamoreau, Rodrigue Lescou�zec, Sergiu Shova, Diana Visinescu, Maria-Gabriela Alexandru, Joan Cano and Miguel Julve	Field-induced Single Ion Magnet behaviour in discrete and one-dimensional complexes containing the bis(1-methylimidazol-2-yl)ketone]-containing cobalt(II) building units	Dalton Trans., DOI: 10.1039/D1DT02441H	4,390	2021
37	Cosmin Iulian Codrea, Alexa-Maria Croitoru, Cosmin Constantin Baci�, Alina Melinescu, Denisa Ficai, Victor Fruth, Anton Ficai	Advances in Osteoporotic Bone Tissue Engineering	Journal of Clinical Medicine, J. Clin. Med., 10(2), 253	4,241	2021
38	L. Ilieva, P. Petrova, A.M. Venezia, E.M. Anghel, R. State, G. Avdeev, T. Tabakova	Mechanochemically Prepared Co3O4�CeO2 Catalysts for Complete Benzene Oxidation	Catalysts 11, 1316.	4,146	2021
39	Alexandra Sandulescu, Crina Anastasescu, Florica Papa, Monica Raciulete, Anca Vasile, Tanta Spataru, Monica Scarisoreanu, Claudiu Fleaca, Cristian N. Mihailescu, Valentin S. Teodorescu, Nicolae Spataru, Maria Zaharescu, Ioan Balint	Advancements on Basic Working Principles of Photo-Driven Oxidative Degradation of Organic Substrates over Pristine and Noble Metal-Modified TiO2. Model Case of Phenol Photo Oxidation	Catalysts, 11 (4), 487	4,146	2021

40	Gabriela Paun, Viorica Parvulescu, Elena Neagu, Camelia Albu, Larisa Ionita, Monica Elisabeta Maxim, Andrei Munteanu, Madalina Ciobanu and Gabriel Lucian Radu	Nanofiltration Composite Membranes Based on KIT-6 and Functionalized KIT-6 Nanoparticles in a Polymeric Matrix with Enhanced Performances	Membranes 11, 300	4,106	2021
41	M. Tudose, R. Baratoiu, E. M. Anghel, M. Voicescu, S. Somacescu, D. Culita, A. Hanganu, A. Kuncser, A. Radoi	A novel composite based on pyrene thiazole grafted on graphene oxide: physico-chemical characterization and electrochemical investigations	Materials Chemistry and Physics 262, 124315	4,094	2021
42	C. Anastasescu, I.C. Gifu, C. Negrilă, R. Socoteanu, I. Atkinson, J.M. Calderon-Moreno, C. Munteanu, G. Plavan, S.A. Strungaru, B. Cheatham, A.-V. Malaroiu, V.S. Teodorescu, M. Anastasescu, M. Zaharescu, I. Balint, V. Lazarescu	Morpho-structural properties of ZnSe, TiO ₂ -ZnSe materials and enzymatic activity of their bioinorganic hybrids with lysozyme	Materials Science and Engineering B, 272, 115350	4,051	2021
43	Movileanu, Codina; Giurcan, Venera; Mitu, Maria; Razus, Domnina; Oancea, Dumitru	Ignition by Low-Voltage Electric Discharges of Diluted and Undiluted C ₃ H ₈ in Air Mixtures	Industrial & Engineering Chemistry Research, 60, 12123-12132	3,720	2021
44	Raluca M. Visan, Anca R. Leonties, Ludmila Aricov, Viorel Chihaiia and Daniel G. Angelescu.	Polymorphism of chitosan-based networks stabilized by phytate investigated by molecular dynamics simulations	Physical Chemistry Chemical Physics, 23, 22601-22612	3,676	2021
45	Mitu, Maria; Brandes, Elisabeth; Zakel, Sabine; Hirsch, Werner;	Explosion regions and limiting oxygen concentrations of methyl propionate, methyl acetate, dimethyl carbonate with air and inert gas mixtures	J. Loss Prev. Process Ind., 69, 104384.	3,660	2021
46	Mitu, Maria; Stolz, Thomas; Brandes, Elisabeth; Zakel, Sabine.	Burning and explosion behaviour of ethanol/water - sucrose mixtures	J. Loss Prev. Process Ind., 71, 104451.	3,660	2021

47	S. Somacescu, A Stanoiu., IV Dinu JM Calderon-Moreno, OG Florea, M Florea, P Osiceanu, C Simion	CuWO ₄ with CuO and Cu (OH) ₂ native surface layers for H ₂ S detection under in-field conditions	Materials, 14(2), 465	3,623	2021
48	B.A.Serban, I.C.Badea, N.Constantin, D.Mitrica, M.T.Olaru, M.Burada, E.Anisie, S.T.Bejan, A.N.Ghita,A.M.Popescu	Modelling and characterisation of complex concentrated alloys with reduced content of critical raw materials	Materials (Metals and Alloys) 14, 5263	3,623	2021
49	C.M. Ninciuleanu, R. Ianchis, E. Alexandrescu, C.I. Mihaescu, C. Scamoroscenco, C.L. Nistor, S. Preda, C. Petcu, M. Teodorescu	The effects of monomer, crosslinking agent, and filler concentrations on the viscoelastic and swelling properties of poly(methacrylic acid) hydrogels: A comparison	Materials, 14(9), 2305	3,623	2021
50	Mioara Prundeanu, Ana-Maria Brezoiu, Mihaela Deaconu, Gratiela Gradisteanu Pircalabioru, Daniel Lincu, Cristian Matei Daniela Berger	Mesoporous Silica and Titania-Based Materials for Stability Enhancement of Polyphenols	Materials 2021, 14(21), 6457	3,623	2021
51	Razvan Bucuresteanu, Lia-Mara Ditu, Monica Ionita, Ioan Calinescu Valentin Raditoiu, Bogdan Cojocaru, Ludmila Otilia Cinteza, Carmen Curutiu, Alina Maria Holban, Marius Enachescu, Laura-Bianca Enache , Gabriel Mustatea, Viorel Chihai, Adela Nicolaev, Elena-Larisa Borcan and Grigore Mihaescu	Preliminary Study on Light-Activated Antimicrobial Agents as Photocatalytic Method for Protection of Surfaces with Increased Risk of Infections	Materials, 14, 5307.	3,623	2021
52	I.A. Neacsu, S.A. Leau, E. Marin, A. M. Holban, B.E. Vasile , A. I. Nicoara , V. L. Ene, C. Bleotu , M. G. Albu Kaya and A. Ficai.	Collagen-Carboxymethylcellulose Biocomposite Wound-Dressings with Antimicrobial Activity	Materials, 14, 1153	3,620	2021

53	Adrian A. Apostol, Iuliana Mihalache, Teodora Mocanu, Oana Tutunaru, Cristina Pachiu, Raluca Gavrilă, Catalin Maxim, Marius Andruh	Luminescent [ZnIIInIII] complexes anchored on graphene: Synthesis and crystal structures of [ZnIIEuIII] and [ZnIITbIII] complexes decorated with pyrene groups	Applied Organometallic Chemistry, 35:e6126	3,581	2021
54	Diana Visinescu, Maria-Gabriela Alexandru, Dan G. Dumitrescu, Sergiu Shova, Nicolăi Moliner, Francisc Lloret, Miguel Julve	Cyanido-bridged {FeIIInIII} heterobimetallic chains assembled through the [FeIII{HB(pz)3}(CN)3] complex as metalloligand: synthesis, crystal structure and magnetic properties	CrystEngComm, 23, 4615	3,545	2021
55	C. E. Simion, C. Ghica, C. Mihalcea, D. Ghica, I. Mercioniu, S. Somacescu, O. G. Florea, A. Stanoiu	Insights about CO Gas-Sensing Mechanism with NiO-Based Gas Sensors. The Influence of Humidity	Chemosensors, 9(9), 244	3,398	2021
56	A. Stanoiu, AC Kuncser, D. Ghica, OG Florea, S. Somacescu, CE Simion	Sensing Properties of NiO Loaded SnO2 Nanoparticles-Specific Selectivity to H2S	CHEMOSENSORS, 9(6), 125	3,398	2021
57	Fuad Khoshnaw, Cornelia Marinescu, Ancuta Mihaela Sofronia, Cornel Munteanu, Maria Marcu, Laura Eugenia Barbulescu, Cristina Ciobota, Elisabeta Mirela Cojocaru, Speranta Tanasescu, Alexandru Paraschiv	Microstructural and thermoanalytical characterization of super duplex stainless steel - UNS S32760-F55,	Materials Today Communications 28, 102644	3,383	2021
58	A. C. Kuncser, I. D. Vlaicu, O. D. Pavel, R. Zavoianu, M. Badea, D. Radu, D. Culita, A. M. Rostas, R. Olar	Soft synthesis and characterization of goethite-based nanocomposites as promising cyclooctene oxidation catalysts	RSC Advances, 11, 27589-27602.	3,361	2021

59	C. Romanitan, P. Varasteanu, D.C. Culita, A. Bujor, O. Tutunaru	X-ray scattering profiles: revealing the porosity gradient in porous silicon	J. Appl. Cryst. 54, 847-855	3,304	2021
60	E.P.Popescu, L. Aricov, S. Mocanu, I. Matei, E. Hristea, R. Baratoiu, A. Leonties, C. Petcu, E. Alexandrescu, G. Ionita	Subtle influence on alginate gel properties through host-guest interactions between covalently appended cyclodextrin and adamantane units,	New Journal of Chemistry, 45(18), 8083-8091	3,288	2021
61	Thi Tan Pham, Thanh Ngoc Pham, Viorel Chihaia, Quang Anh Vu, Thuat T. Trinh, Trung Thanh Pham, Le Van Thang and Do Ngoc Son	How do the doping concentrations of N and B in graphene modify the water adsorption?	RSC Adv., 11, 19560	3,245	2021
62	Ong Kim Le, Viorel Chihaia, Vo Van Ond and Do Ngoc Son	N-type and p-type molecular doping on monolayer MoS ₂	RSC Adv., 11, 8033	3,245	2021
63	Alexander P. Shchamialiou, Vladimir S. Samuilov, Nadejda V. Holubeva, Dana Drăgoescu, Florinela Sărbu	Density, speed of sound and derived thermodynamic properties of binary liquid mixtures of 1-chlorohexane with toluene and tetradecane under high pressures	J. Chem. Thermodynamics 154, 106329	3,178	2021
64	Gianina Dobrescu, Florica Papa, Irina Atkinson, Daniela Cristina Culita, Ioan Balint	Correlations between the basicity and the fractal dimension of Rh-nanoparticles supported on Al ₂ O ₃ , TiO ₂ and WO ₃	IOSR Journal of Applied Chemistry (IOSR-JAC) e-ISSN: 2278-5736. Volume 14, Issue 1 Ser. I, PP 11-25	3,149	2021
65	Enache, L.-B., Anăstăsoaie, V., Lete, C., Brotea A.G., Matica O.-T., Amarandei C.-A., Brandel J., Ungureanu, E.-M., Enăchescu, M.	Polyazulene-based materials for heavy metal ion detection. 3. (e)-5-((6-t-butyl-4,8-dimethylazulen-1-yl) diazenyl)-1h-tetrazole-based modified electrodes	Symmetry, 13(9),1642	3,098	2021

66	M. Nicolescu, M. Anastasescu, J. M. Calderon-Moreno, A. V. Maraloiu, V. S. Teodorescu, S. Preda, L. Predoana, M. Zaharescu, M. Gartner	Optical, microstructural and vibrational properties of sol-gel ITO films	Optical Materials 114, 110999	3,080	2021
67	Maria-Gabriela Alexandru, Diana Visinescu Sergiu Shova, Salah-Eddine Stiriba, Joan Cano, Francisc Lloret, Miguel Julve	Slow relaxation of the magnetization in a {CoIIIMnIII} heterometallic brick-wall network	Polyhedron, 200, 115118	3,052	2021
68	Mitu, Maria; Movileanu, Codina; Giurcan, Venera;	Deflagration Characteristics of N2-Diluted CH4-N2O Mixtures in the Course of the Incipient Stage of Flame Propagation	Energies 14(18), 5918	3,004	2021
69	Maxim, F.; Poenaru, I.; Toma, E.E.; Stoian, G.S.; Teodorescu, F.; Hornoiu, C.; Tanasescu, S.	Functional Materials for Waste-to-Energy Processes in Supercritical Water	Energies, 14, 7399	3,004	2021
70	M. Mitu, D. Razus, V. Schroeder	Laminar burning velocities of hydrogen-blended methane-air and natural gas-air mixtures, calculated from the early stage of p(t) records in a spherical vessel	Energies 14, 7556.	3,004	2021
71	A.M. Mocioiu, I.A. Tudor, O. C. Mocioiu,	Application of polyaniline for flexible semiconductors.	Coatings, 11, 49	2,881	2021
72	V. Purcar, V. Raditoiu, A. Raditoiu, R. Manea, F.M. Raduly, G.C. Ispas, A.N. Frone, C.A. Nicolae, R.A. Gabor, M. Anastasescu, H. Stroescu, S. Căprărescu	Preparation and characterization of some sol-gel modified silica coatings deposited on polyvinyl chloride (PVC) substrates	Coatings, 11, 11	2,881	2021

73	R. Somoghi, V. Purcar, E. Alexandrescu, I.C. Gifu, C.M. Ninciuleanu, C.M. Cotrut, F. Oancea, H. Stroescu	Synthesis of Zinc Oxide Nanomaterials via Sol-Gel Process with Anti-Corrosive Effect for Cu, Al and Zn Metallic Substrates	Coatings. 11, 444.	2,881	2021
74	A.M.Popescu,F. Branzoi, I. Constantin, M.Anastasescu, M. Buradab, D.MitricĂf, I. Anasiei, M.T. Olaru, V.Constantin*	Electrodeposition, characterization and corrosion behaviour of CoCrFeMnNi high entropy alloy thin films	Coatings,11, 1137-1380	2,881	2021
75	C.I. Gifu, B. Trica, C.M. Ninciuleanu, C.I. Mihaescu, C. Petcu, M.C. Lite, A. Popescu, M. Anastasescu, S.N. Voicu, M.A. Tanase, L.O. Cinteza	Rapid microwave-assisted synthesis of organo-modified nanostructured silica coatings with tunable water-repellence properties	Coatings, 11, 1319	2,881	2021
76	Florina Branzoi, Adriana Baran, Simona Petrescu	Evaluation of Corrosion Protection Performance of New Polymer Composite Coatings on Carbon Steel in Acid Medium by Electrodeposition Methods	Coatings 11(8), 903	2,880	2021
77	Balaci, Teodora; Velescu, Bruno; Karampelas, Oana; Musuc, Adina M.; NiÈulescu, George M.; Ozon, Emma A.; NiÈulescu, Georgiana; GĂrd, Cerasela E.; FiÈa, Catalina; Lupuliasa, Dumitru.	Physico-Chemical and Pharmaco-Technical Characterization of Inclusion Complexes Formed by Rutoside with Î²-Cyclodextrin and Hydroxypropyl-Î²-Cyclodextrin Used to Develop Solid Dosage Forms	Processes 9, 1: 26.	2,847	2021
78	Mitu, Maria; Giurcan, Venera; Movileanu, Codina; Razus, Domnina; Oancea, Dumitru;	Propagation of CH4-N2O-N2 flames in a closed spherical vessel	Processes 9(5), 851.	2,847	2021

79	Giurcan, Venera; Mitu, Maria; Movileanu, Codina; Razus, Domnina; Oancea, Dumitru.	Propagation velocity of flames in inert-diluted stoichiometric propane-air mixture: pressure and temperature dependence.	Processes 9(6), 997.	2,847	2021
80	Giurcan, Venera; Movileanu, Codina; Musuc, Adina-Magdalena; Mitu, Maria;	Laminar burning velocity of biogas-containing mixtures. A literature review.	Processes 9(6), 966.	2,847	2021
81	Teodor Sandu, Raul, Augustin Mitran, Andrei Sărbu, Nicolae Stănică, Ana Mihaela Gavrilă, Delia Pătroi, Virgil Marinescu, Cristian Petcu, Marius Ghiurea, Marinela Victoria Dumitru, Tană Verona Iordache	Two-component polymer beads with magnetic features as efficient means for active principles binding	Journal of Polymer Research 28:277	2,830	2021
82	M. C. Buta, B. Frecus, M. Enache, I. Humelnicu, A. M. Toader, F. Cimpoesu	Intra- and Inter-Molecular Spin Coupling in Phenalenyl Dimeric Systems.	J. Phys. Chem. A, 125, 6893-6901	2,781	2021
83	Lavinia Vlaia, Georgeta Coneac, Ana Maria Mut, Ioana Olariu, Vicentiu Vlaia, Dan Florin Anghel, Monica Elisabeta Maxim, Amadeus Dobrescu, Mircea Hărgău and Dumitru Lupuleasa	Topical Biocompatible Fluconazole-Loaded Microemulsions Based on Essential Oils and Sucrose Esters: Formulation Design Based on Pseudo-Ternary Phase Diagrams and Physicochemical Characterization	Processes, 9, 144	2,753	2021
84	Moroșanu E, Mititelu M, Drăgănescu D, Lupuliasa D, Ozon EA, Karamelas O, Gărd CE, Aramă C, Hovaneș MV, Musuc AM, Ioniță A. C.	Investigation into the Antioxidant Activity of Standardized Plant Extracts with Pharmaceutical Potential	Applied Sciences, 11(18):8685.	2,679	2021

85	A. Gavrilă, I. Radu, H. Stroescu, A. Zaharia, E. Stoica, A. Ciurlica, T.-V. Iordache, A. Sărbu	Role of Functional Monomers upon the Properties of Bisphenol A Molecularly Imprinted Silica Films	Appl. Sci. 11, 2956.	2,679	2021
86	Mihnea Ioan Gabriel Popa, Adrian Cursaru, Bogdan Serban, Bogdan Cretu, Andrei Alexandru Muntean, Vlad Tudor Popa, Mariana Carmen Chifiriuc, Călin Cârstoiu	Microcalorimetry – Versatile Method of Describing Bacterial Growth	Applied Sciences, 11 (20) 9740	2,679	2021
87	D. Gingasu, I. Mindru, D. Culita, J.M. Calderon-Moreno, C. Barthă, S. Greculeasa, N. Iacob, S. Preda	Structural, morphological and magnetic investigations on cobalt ferrite nanoparticles obtained through green synthesis routes	Appl. Phys. A, 127, 892	2,584	2021
88	Sergiu Calancea, Luca Carrella, Teodora Mocanu, Vladimir Sadohin, Mihai Raduca, Iacob Gutu, Julio C. da Rocha, Maria G. F. Vaz, Eva Rentschler, Marius Andruh	Magnetic Molecular Rectangles Constructed from Functionalized Nitronyl-Nitroxide Ligands and Lanthanide(III) Ions	Eur. J. Inorg. Chem., 567-577	2,529	2021
89	D. Gingasu, I. Mindru, D. Culita, G. Marinescu, S. Somacescu, A. Ianculescu, V.-A. Surdu, S. Preda, O. Oprea, B.S. Vasile	Mentha piperita-mediated synthesis of cobalt aluminate nanoparticles and their photocatalytic activity	J. Mat. Sci.-Mat.Electron, 32, 11220-11231	2,478	2021
90	Stanescu, MD ; Stefanov, C ; Albota, F ; Hirtopăanu, A ; Oprea, OC; Stanica, N ; Ferbinteanu, M	Synthesis and structural analysis of complexes based on alpha-amino ketone derived from benzimidazole JOURNAL OF MOLECULAR STRUCTURE Volume: 1228 Article Number: 129716 DOI: 10.1016/j.molstruc.2020.129716 Published: MAR 15 2021	JOURNAL OF MOLECULAR STRUCTURE 1228, 129716	2,463	2021

91	Alexandra Gaspară-Pintilieșcu, Elena Daniela Anton, Andreea Iosageanu, Daniela Berger, Cristian Matei, Raulă-Augustin Mitran, Ticuta Negreanu-Pirjol, Oana Craciunescu, Lucia Moldovan	Enhanced Wound Healing Activity of Undenatured Type I Collagen Isolated from Discarded Skin of Black Sea Gilthead Bream (<i>Sparus aurata</i>) Conditioned as 3D Porous Dressing	Chemistry & Biodiversity, 18, e2100293	2,408	2021
92	Mitu, Maria; Zakel, Sabine; Brandes, Elisabeth; Hirsch, Werner.	Ignition Temperature of Combustible Liquids in Mixtures of Air with Nitrous Oxide.	Fire and Materials, 1-5.	2,407	2021
93	I. Atkinson, O. C. Mocioiu, E. M. Anghel	A study of zircon crystallization, structure, and chemical resistance relationships in ZrO ₂ containing ceramic glazes	Boletín de la Sociedad Española de Cerámica y Vidrio, https://doi.org/10.1016/j.bsecv.2021.07.002	2,383	2021
94	Elena Constantin, Pericle Varasteanu, Iuliana Mihalache, Gabriel Craciun, Raul-Augustin Mitran, Melania Popescu, Adina Boldeiu, Monica Simion	SPR detection of protein enhanced by seedless synthesized gold nanorods	Biophysical Chemistry, 279, 106691	2,352	2021
95	R. P. Socoteanu, R. Boscencu, G. Manda, M. Anastasescu, I. V. Neagoe, I. F. Machado, O. Dinca, A. Bucur, L.F. Vieira Ferreira	Morphologic evaluation of some promising A3B porphyrinic type compounds designed for theranostic applications in cancer	Chem.Phys., 544, 111115	2,348	2021
96	M. Gartner, M. Stoica, M. Nicolescu, H. Stroescu	The ellipsometry versatility in the study of sol-gel films	Journal of Sol-Gel Science and Technology, 98 (1), 1-23	2,326	2021
97	Izabella Dascalu, Jose Maria Calderon-Moreno, Petre Osiceanu, Veronica Bratan, Cristian Hornoii, Simona Somacescu	Amorphous ZnO modified anatase TiO ₂ thin films templated by tripropylamine and their electrical properties	Thin Solid Films, 729, 138697	2,183	2021

98	Ligia Todan, Mariana Voicescu, Daniela Cristina Culita, Jeanina Pandelea-Cuțu, Camelia Albu, Andrei C. Kuncser	Ecological formulation for improving resveratrol stability and release in aqueous environment	Chemical Papers, 75:2033-2041	2,000	2021
99	T. Schimmel, J. Bohrisch, D.F. Anghel, J. Oberdisse*, R. von Klitzing	Influence of intramolecular charge coupling on intermolecular interactions of polycarboxybetaines in aqueous solution and in polyelectrolyte multilayers	Molecular Physics, e1936676	1,962	2021
100	Chiriac, E.R., Chiăescu, C.L., Geană, E.-I., Gird, C.E., Socoteanu, R.P., Boscencu, R.	Advanced analytical approaches for the analysis of polyphenols in plants matrices	Separations, 2021, 8(5), 65	1,900	2021
101	Vo Khuong Dien, Ong Kim Le, Viorel Chihaiia, MyăPhuong PhamăHo, Do Ngoc Son	Monolayer transitionămetal dichalcogenides with polyethyleneimine adsorption	Journal of Computational Electronics https://doi.org/10.1007/s10825-020-01630-2	1,807	2021
102	Spinu, C.A., Pichon, C., Ionita, G., Mocanu, T., Calancea, S., Raduca, M., Sutter, J.-P., Hillebrand, M., Andruh, M.	Synthesis, crystal structure, magnetic, spectroscopic, and theo-retical investigations of two new nitronyl-nitroxide complexes	Journal of Coordination Chemistry, 74 (1-3), 279 - 293	1,600	2021
103	Do Ngoc Son, Viorel Chihaiia and Pham Tan Thi	Mechanism of Oxygen Reduction Reaction on Monolayer WTe ₂ with and without S Dopant at Low Coverage	e-Journal of Surface Science and Nanotechnology 19, 119–124	0,540	2021

104	Hasan S AlMatrouk, Fahad Al-Ajmi, Do Ngoc Son, Viorel Chihaia and Valentin Alexiev	The Pressure-Temperature Phase Diagram Assessment for Magnesium Hydride Formation/Decomposition Based on DFT and CALPHAD Calculations	Mod App Matrl Sci.4, 467	0,521	2021
			Total:	455,070	

INSTITUTUL DE CHIMIE FIZICĂ “ILIE MURGULESCU” (ICF)

LISTA PROIECTE AFLATE IN DERULARE

Nr. crt.	Titlu proiect/acronim	Tip proiect/program	Nr. contract	Perioada derulare	Director proiect din AR (nume+coordonate)	Sursa de finantare	BUGET, lei/EURO			
							Total		Anul 2021	
							F	CF	F	CF
1	Materiale carbonatoase derivate din (poli)zaharide: platforma pentru dezvoltarea unei noi generatii de senzori electrochimici verzi pe baza de cupru/GREENSENS	Proiect cercetare exploratorie	PCE 54 / 2021 (PN-III-P4-ID-PCE-2020-2324)	4.01.2021-31.12.2023	Dr. Oana Carp/Dr. Diana Visinescu (e-mail: diana.visinescu@gmail.com)	UEFISCDI	1198032 lei / 249590 EURO (F)		498032 lei / 103756 EURO (F)	
2	Oxizi metalici pe suport de carbon produsi prin metoda impregnarii in conditi isupercritice ale apei (APASUPER)	PN-III-P4-ID-PCE-2020-1241	111/2021	Ian. 2021-Dec. 2023	Dr. Maxim Florentina Violeta	UEFISCDI	1198032 lei (F)		356823 (F)	
3	Safety testing in the life cycle of nanotechnology-enabled medical technologies for health (SAFE-N-MEDTECH)	Horizon 2020 Innovation Action (IA) Call: H2020-NMBP-TO-IND (Foundations for tomorrow's)	814607/2019	01.04.2019 31.03.2023	Dr. Speranta Valeria Tanasescu	H2020-EU	324250 EUR (F)		10950 EUR (F)	
4	Targeted multifunctional nanoemulsions to interrupt metastatic progression (METASTARG)	H2020-EURONANOMED III (European innovative research & technological development projects in nanomedicine)	90/2019	01.04.2019 31.12.2022	Dr. Speranta Valeria Tanasescu	UEFISCDI (Horizon 2020, COFUND-ERANET)	932000 lei (F)		295444 lei (F)	
5	Aliaj terțiar cu proprietăți antibacteriene și elemente de aliere non-toxice pentru implanturi/ (ZIRTAAG)	PN-III-P1-1.1-TE-2019	86/2020	2020-2022	Dr. Drob Silviu	UEFISCDI	394400 lei (F)		234600 lei (F)	
6	Sinteza electrochimică a aliajelor	PN-III-P2-2.1-PED-2019-	330PED/2020	2020-2022	Dr. Ana-	UEFISCDI	600000		175000 lei	

	cu entropie înaltă cu rezistență superioară tribologică și la coroziune (HEASYNTCORR)	0022			Maria Julieta Popescu		Lei/ 350000 ICF (F)	ICF (F)
7	Cadru combinat experimental calculi numerice pentru studiul stocarii hidrogenului in nanoparticule bazate pe magneziu (CEAF-HySTO)	PN-III-P2-2.1	PED-2019-4816	2020-2023	Viorel Chihai	UEFISCDI	60000 lei / 350000 lei (ICF) (F) 20000 euro	175000 (F)
8	Tratarea apei din surse contaminate cu azotati si compusi organici clorurati utilizand procese integrate de reducere/oxidare catalitica si biofiltrare/ DENOX	PN III-PTE	26PTE/2020	2020-2022	Florica Papa	UEFISCDI	148 695 lei (ICF) (F)	44 700 (F)
9	Aplicatii ale materialelor optic active in procese complexe aerului si apei in generarea de H ₂ si in dezvoltarea de cellule solare parte a proiectului complex: Materiale avansate si tehnologii laser/plasma de procesare pentru energie si depoluare: cresterea potentialului aplicativ si al interconectarii stiintifice in domeniul eco-nanotehnologiilor/MALASENT	PN III -CDI	46PCCDI/2018	2018-2021	Ioan Balint	UEFISCDI	5 000 000 lei/ 1 201 000 lei ICF (F)	60 201 lei (F)
10	Sistem portabil intelligent pentru detectia de compusi organici volatili-VOC DETECT	M-ERA.net Programul 3 "Cooperare europeană științifică internațională", Subprogram 3.2.-Orizont 2020	112/2019	2019-2021	Dr. Gartner F. Mariuca	UEFISCDI	(F)-352500 Lei/ 75000 EURO	(F)-96100 lei /20446.81 EURO
11	Micronanotehnologii pentru monitorizarea gazelor cu efect de sera-"TECH4GREEN"	Proiect experimental – demonstrativ	308PED/03.08.2020	2020-2022	Dr. Mariuca Gartner	UEFISCDI	(F)-300000 lei/ 62500	(F)-150000 lei/ 31250 EURO

							EURO	
12	Senzori si sisteme integrate electronice si fotonice pentru securitatea persoanelor si a infrastructurilor	PCCDI	71PCCDI/2018	2018-2021	Dr. Mariuca Gartner	UEFISCDI	(F)-448000 lei/ 95319 EURO	(F)-24612lei/ 5237 EURO
13	Structuri tip scaffold absorbabile obtinute prin printare tridimensiunala 3D cu laser, cu stabilitate biomecanica prelungita in fluidebiologice	PCE	234/2021	2021-2023	Dr. Jose M. Calderon Moreno	UEFISCDI	1198032 lei (F)	435032 Lei (F)
14	Holistic design of fuel cell electrocatalysts for the least power applications	M-ERA.NET	110/2019	01/06/2019 31/05/2022	Simona Somacescu	UEFISCDI	470000 lei/ 100000 euro (F)	106095 lei/ 27362 euro (F)
15	VALORIFICAREA COMPLEXĂ A BIORESURSELOR DIN ZONA MĂRII NEGRE PRIN DEZVOLTAREA ȘI APLICAREA UNOR BIOTEHNOLOGII INOVATOARE ȘI EMERGENTE [INOBIOMAR]	PN-III-P1-1.2-PCCDI-2017-0701	85PCCDI / 2018	31/03/2018 30/09/2021	Dr. Raul-Augustin Mitran / ICF	UEFISCDI	2868000 Lei (total proiect)/ 360000 Lei (ICF) (F)	24132 Lei /ICF (F)
16	TEHNOLOGII NOI DE DIAGNOZA SI TRATAMENT PENTRU CONSERVAREA SI REVITALIZAREA COMPONENTELOR ARHEOLOGICE ALE PATRIMONIULUI CULTURAL NATIONAL – ARHEOCONS	PN-III-P1-1.2-PCCDI-2017-0476	51PCCDI/2018	17.05.2018 30.09.2021	Dr. Luminita Predoana	UEFISCDI	1095930 lei (F)	62187 lei (F)
17	NANOCOMPOZITE METAL-CERAMICE: MATERIALE DE STOCARE DE ENERGIE TERMICA DE ULTIMA GENERATIE [MOST]	PN-III-P1-1.1-TE-2019-1456	166TE / 2020	01/11/2020 31/10/2022	Dr. Raul-Augustin Mitran	UEFISCDI	431900 Lei (F)	292917 Lei (F)
18	Matriciextracelulare 3D funcționalizate, pe bază de biosticlămezoporoasăpentru regenerarețesuturilor dure	PN-III-P2-2.1-PED-2019-0598	258/PED/2020	03/08/2020 31/07/2021	Dr. Irina Atkinson – ICF	UEFISCDI	350000 Lei (F)	175000 Lei (F)

	(BIOSCAFTIS)							
19	3D Chiral Metamaterials based on Gallium (MeGa)	Acord Colaborare Academia Romana - Consiliul National de Cercetare Italia		2021-2023	Dr. Viorel Chihai	Academia Română	12000 Euro	4000 Euro
20	Experimental and Computational Investigations of the Adsorbed Photo-switching Molecules	SchimbiInteracademic Romania-Bulgaria		2021-2022	Dr. Viorel Chihai	Academia Română		
21	Thin films for optical sensors	SchimbiInteracademic Romania-Ungaria		2019-2021	Dr. Gartner Mariuca	Academia Română		
22	Corrosion resistance of new composite materials based on capsulated iron powders for electronic industry	Proiect de colaborare intre Academia Romana si Fundatia Nationala pentru Cercetarea Stiintifica din Belarus din cadrul ASBelarus pe 2020-2021	AR1 445/12.05. 2020 AR 1556/28.04. 2021	2020-2021	Dr. Ana-Maria Julieta Popescu	Academia Română	Fara buget din cauza Covid-19 On line	On line
23	A comparative study of the thermophysical properties for binary mixtures of cycloalkanes and cycloketones with aromatic hydrocarbons	Joint Research Project between Romanian Academy and National Academy of Sciences of Belarus and Belarusian Rep. Foundation for Fundamental Research.	AR-FRBCF	2020-2021	Dr. Dana Drăgoescu	Academia Română	Activitatile au avut loc online, - 0 lei	Activitatile au avut loc online, - 0 lei
24	Structural and thermodynamic studies of aqueous solutions	Joint Research Project between Romanian Academy and Hungarian Academy of Sciences.	AR- HAS	2018-2021	Dr. Dana Drăgoescu	Academia Română	Activitatile au avut loc online, - 0 lei	Activitatile au avut loc online, - 0 lei
25	Hierarchically organized zeolites obtained by structure directing surfactants as supports for transition metals with photocatalytic properties	Colaborare interacademica cu Universitatea Lorraine, Facultate de StiintesiTehnologie, Nancy, Franta		2019-2022	Dr. Viorica Parvulescu	Academia Română		
26	Ce modified porous oxides as catalysts for oxidation reactions. The effect of support on catalytic	Colaborare interacademicarealizata cu Institutul de Cataliza al		2020-2023	Dr. Viorica Parvulescu	Academia Română		

	activity	Academiei Bulgare din Sofia						
27	Reduced semiconductor oxides for TCO, photocatalysis and gas sensing applications	Proiect Interacademic de Mobilitate intre Institutul de Chimie Fizica Ilie Murgulescu, Academia Romana si Centre of Natural Sciences, Hungarian Academy of Sciences, Romania - Ungaria		2019-2021	Acad Dr. Maria Zaharescu	Academia Română		
28	Transparent ceramic luminophores for high-power lasers operating in short infrared range	Proiect Interacademic de Mobilitate intre Institutul de Chimie Fizica Ilie Murgulescu, Academia Romana si Institute of Photonics and Electronics of the Czech Academy of Sciences, Romania – Republica Ceha		2020-2022	Dr. Luminita Predoana	Academia Română		
29	Investigatii magnetice, electrice si optice ale fazelor cu structura perovschitica si fluoritica	Proiect Interacademic de Mobilitate intre Institutul de Chimie Fizica Ilie Murgulescu, Academia Romana si Institutul de Fizica, Belgrad/ Academia din Serbia		2021-2022	Dr. Victor Fruth	Academia Română		
30	Mecanisme de reactie in conversia geopolimerica a deseurilor anorganice in produse utile	Proiect Interacademic de Mobilitate intre Institutul de Chimie Fizica Ilie Murgulescu, Academia Romana/ Institutul de Cercetari Metalurgice Bucuresti/ si Institutul de Fizica, Belgrad, Academia din Serbia			Dr. Victor Fruth Dr. Eniko Valceanov	Academia Română		
31	Piezoelectric and Multiferroic Molecular Perovskites for Flexible	Proiect de cercetare in colaborare cu National		2020-2022	Dr. Victor Fruth	Academia Română	12000 euro	4000 euro

	and Wearable Devices	Research Council of Italy, the Institute for the Structure of Matter of National Research Council (CNR-ISM)						
32	Network for research, innovation and product development on porous semiconductors and oxides	COST ACTION-CA20126		2021-2025	Retea nationala: -Universitatea POLITEHNICA din Timisoara MC member conf. dr. habil. Dr. Narcis DUTEANU; -Cluj Napoca - Universitatea Babes-Bolyai; -Iasi Universitatea Alexandru Ioan Cuza; -Bucuresti, Institutul de Chimie Fizica al Academiei Romane (Dr. Victor Fruth); -Institutul National pentru Fizica Plasmei si Radiatiei ; - Universitatea POLITEHNICA din Bucuresti (MC member Prof. Habil. Anton FICAI			
33	APPLICATION OF 3D CELL CULTURES TO STUDY ANTITUMOR ACTIVITY OF METAL COMPOUNDS	Schimb interacademic Romania - Bulgaria (2018- 2021) (Institute of Experimental Morphology, Pathology and Anthropology with Museum, Bulgarian Academy of Science)		2018-2021	Dr. Daniela Culita	Academia Română		
34	Studii asupra filmelor formate de copolimeri amfifili prin metode fluorescente	Schimb interacademic cu Academia Polonă de Științe, Center of Molecular and Macromolecular Studies, Lodz, Polonia		2019-2021	Dr. Dan F. Anghel	Academia Română		

F = finantare 100%

CF = cofinantare

LISTA PROPUNERI DE PROIECTE DEPUSE IN ANUL 2021

Tip program	Cod apel	Titlu proiect	Director/responsabil proiect	Coordonator/Parteneri	Buget Total/Institutie	Stadiul propunerii Acceptat/respins / in evaluare
PD 2021	PN-III-P1-1.1-PD-2021-0169	PAA functionalizat cu unitati de tip gazda si oaspete sensibili la stimuli externi	Aricov Ludmila	ICF - Coordonator	250000 lei	in evaluare
PD 2021	PN- III-P1-1.1-PD-2021-0519	Evaluarea utilizarii materialelo rhibride hidrogel/AuNP in purificarea apei	Mocanu Sorin	ICF - Coordonator	250000 lei	in evaluare
PD 2021	PN-III-P1-1.1-TE-2021-0081	Acțiunea compușilor polifenolici asupra agregării proteinei și a toxicității oligomerilor	Precupas Aurica	ICF - Coordonator	450000 lei	in evaluare
TE 2021	PN-III-P1-1.1-TE-2021-0288	Aplicatii biomedicale ale materialelo rhibride pe baza de oxid de grafena si structuri fluorescente	Tudose Madalina	ICF - Coordonator	450000 lei	In evaluare
TE 2021	PN-III-P1-1.1-TE-2021-0412	Tehnologie pentru reducerea poluantilor organici clorurati din ape prin procese combinate de fotomineralizare/hidrodeclorurare prin	State Razvan	ICF - Coordonator	449994 lei	In evaluare
TE 2021	PN-III-P1-1.1-TE-2021-0418	Imobilizarea lacazei pe microsfele din CS-PAA și aplicarea acesteia pentru biodegradarea coloranților textili	Leonties Anca Ruxandra	ICF - Coordonator	450000 lei	in evaluare
TE 2021	PN-III-P1-1.1-TE-2021-0606	Optimizarea benzii interzise a oxihalogenurilor tranzitionale pentru dezvoltarea de captatori de lumina vizibila cu aplicatii in energie si depoluare	Pavel Monica	ICF - Coordonator	450000 lei	In evaluare
TE 2021	PN-III-P1-1.1-TE-2021-0669	Aliaj inovativ pentru implanturi ortopedice si acoperiri protectoare pe suprafata acestuia	Drob Silviu Iulian	ICF - Coordonator	450000 lei	in evaluare
TE 2021	PN-III-P1-1.1-TE-	Flavonoid-nitroxizi cu proprietati spectrale adaptate caracterizarii	Matei Iulia	ICF - Coordonator	450000 lei	in evaluare

	2021-0735	ansamblurilor supramoleculare				
TE 2021	PN-III-P1-1.1-TE-2021-0984	Materiale pe Baza de Carbon: Abordari Inovatoare prin Modele de Principii Prime	Toader Ana Maria	ICF - Coordonator	450000 lei	in evaluare
TE 2021	PN-III-P1-1.1-TE-2021-1123	Sinteze bio-inspirate ale oxizilor micști mezoporoși pe bază de CeO ₂ cu activitate fotocatalitică	Ciobanu Elena-Madalina	ICF - Coordonator	450000 lei	In evaluare
TE 2021	PN-III-P1-1.1-TE-2021-1554	<i>Design</i> -ul si dezvoltarea de platforme pentru medicamente cu aplicații în terapia Alzheimer	Teodorescu Florina	ICF - Coordonator	450000 lei	Respins
PCE 2021	PN-III-P4-PCE-2021-0010	Sisteme fluorescente flavina-nanoparticule de argint cu aplicatie biologica	Voicescu Mariana	ICF - Coordonator	1200000 Lei	Respins
PCE 2021	PN-III-P4-PCE-2021-0197	Dezvoltarea de potentiale intermoleculare pentru o robusta si mulare computationala a adsorptiei polipeptidelor dezorganizate pe minerale argiloase	Angelescu Daniel	ICF - Coordonator	1200000 Lei	in evaluare
PCE 2021	PN-III-P4-PCE-2021-0364	Interactia unor medicamente antitumorale cu lichide ionice active superficial (SAILs) – o nouageneratie de sisteme de transport medicamente	Enache Mirela	ICF - Coordonator	1200000 Lei	In evaluare
PCE 2021	PN-III-P4-PCE-2021-0369	Influenta adaosului de hydrogen asupra explozivitatii amestecurilor gazoase LPG-aer	Movileanu Codina	ICF - Coordonator	1200000 Lei	In evaluare
PCE 2021	PN-III-P4-PCE-2021-0441	Investigarea experimentala s inumerica a deflagratiilor in amestecuri n-butan-oxidant-inert	Giurcan Venera	ICF - Coordonator	1200000 Lei	In evaluare
PCE 2021	PN-III-P4-PCE-2021-0604	Noi nanosisteme hibride bioactive pe bază de nanoparticule de silice mezoporoasă încărcate cu complecși de ruteniu	Culita Daniela Cristina	ICF - Coordonator	1200000 Lei	In evaluare
PCE 2021	PN-III-P4-PCE-2021-0846	Indepărtarea Compusilor Organici Volatili (COV) folosind oxizi multicomponenti abundenti	Hornoiu Ovidiu-Cristian	ICF - Coordonator	1168500 lei	in evaluare
PCE 2021	PN-III-P4-PCE-2021-	Interactii necovalente in solutii de trehaloza studiate prin spectroscopie	Ionita Elena Gabriela	ICF - Coordonator	1200000 Lei	in evaluare

	1126	RES				
PCE 2021	PN-III-P4-PCE-2021-1357	Obținerea electrochimică a unui material anodic hibrid Pt/WOx-TiO2 pentru pile de combustie cu metanolfoto-asistate	Spataru Nicolae	ICF - Coordonator	1200000 Lei	Respins
PCE 2021	PN-III-P4-PCE-2021-1458	Riscuri asociate combustiei biogazului cu aer sau cu aer îmbogățit în oxigen	Mitu Maria	ICF - Coordonator	1199500 lei	în evaluare
PCE 2021	PN-III-P4-PCE-2021-1537	Mezoarhitecturi cu nanoparticule cu compoziție personalizată și toleranță bună la C și S pentru producerea energiei verde folosind pile de combustie	Somacescu Simona	ICF - Coordonator	1200000 lei	În evaluare
PCE 2021	PN-III-P4-PCE-2021-1785	TEHNOLOGII AVANSATE DE PRODUCERE A STICLOR ANTICOROZIVE DE LA SUPRAFAȚA CELULELOR SOLARE	Mocioiu Oana Catalina	ICF - Coordonator	1200000 lei	În evaluare
PCE 2021	PN-III-P4-PCE-2021-1881	Noi dezvoltări în înțelegerea teoretică a emisiei pământurilor rare. Fundamente pentru aplicații prin proiectarea rațională a proprietăților	Cimpoesu Fanica	ICF - Coordonator	1200000lei	În evaluare
PED 2021	PN-III-P2-2.1-PED-2021-0153	Nano Sisteme Fluorescente pe baza de Flavine Implicate în Stresul Oxidativ	MARIANA VOICESCU	ICF – Coordonator / INCDSB – P1	600000 lei (total) / 400000 lei (ICF)	În evaluare
PED 2021	PN-III-P2-2.1-PED-2021-0210	Anozi multimetaliți obținuți prin sinteză electrochimică pentru acumulatori cu litiu de generație următoare	ANA MARIA JULIETA POPESCU	ICF – Coordonator / IMNR-Partener P1	600000 lei (total) / 350000 lei (ICF)	În evaluare
PED 2021	PN-III-P2-2.1-PED-2021-0450	Materiale carbonatoase hidrotermale derivate din deseuri de biomasă și combustibili solizi verzi și durabili pentru energie curată regenerabilă	ADINA MAGDALENA MUSUC	ICF - Coordonator	600000 Lei	În evaluare
PED 2021	PN-III-P2-2.1-PED-2021-1008	Caracteristicile exploziilor în vase interconectate	CODINA MOVILEANU	ICF - Coordonator	600000 Lei	În evaluare
PED 2021	PN-III-P2-2.1-PED-	Materiale de catodi preparate prin metoda sol-gel pentru baterii Li-ion	LUMINITA PREDOANA	ICF – Coordonator / Partener: ICSI Rm.	600000 lei (total) / 320000 lei (ICF)	În evaluare

	2021-1083			Valcea		
PED 2021	PN-III-P2-2.1-PED-2021-1104	Sistem hybrid pentru monitorizarea si remedierea fluxurilor de ape uzate contaminate cu poluanti organici persistenti de tip fenolic	FLORICA PAPA	ICF – Coordonator / INCD Stiinte Biologice-P1 / ICPE-CA-P2	600 000 lei (total) /250 000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-1197	Nanocompozite inovative pentru stocarea energiei termicesolare la temperature ridicate pe bază de materiale cu schimbare de fază	RAUL-AUGUSTIN MITRAN	ICF – Coordonator / Universitatea Politehnica din București (P1)	600000 lei (total)/ 375000 lei (ICF)	in evaluare
PED 2021	PN-III-P2-2.1-PED-2021-1440	Tratamentul laser al filmelor native de TiO2 ca o nouă abordare pentru obținerea anozilor multistrat Pt/TiO2 cu activitate sporita pentru oxidarea foto-asistată a metanolului	TANTA SPATARU	ICF – Coordonator / Apel Laser SRL-P1	628000 lei (total)/ 460000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-1839	Studiu asupra deflagrațiilor produse in amestecuri combustibil-oxidant-inert	VENERA GIURCAN	ICF - Coordonator	600000 Lei	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-1908	Un nou eco-fotocatalizator pentru denitrarea apei PN-III-P2-2.1-PED-2021-1908	DIANA BEATRICE VISINESCU	ICF - Coordonator	600000 lei	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-2437	Toward embedded detector system for hazardous gases alerting: flexible tungstates / rGO hybrid ultra sensitivemesoarchitectures	SIMONA SOMACESCU	ICF – Coordonator / INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR partener	600000 lei (total)/ 330000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-2517	Detectori fluorescent si paramagnetici pentru specii reactive ale oxigenului si azotului	ELENA GABRIELA IONITA	ICF - Coordonator	600000 lei	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-2853	Agregate de lichide ionice active superficial (SAILs) – potientiale sisteme de transport pentru medicamente antitumorale	MIRELA ENACHE	ICF – Coordonator / Partener: Institutul de Biologie Bucuresti	700000 lei (total)/ 350000 lei (ICF)	In evaluare

PED 2021	PN-III-P2-2.1-PED-2021-2970	Materiale atipice cu bandainterzisa mare (SiO2, GeO2) cu defecte de reteafotoactivepentrupurificareaaerul ui din incinte	IOAN BALINT	ICF – Coordonator / INFLPR-P	600000 lei (total)/ 350000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-3459	Disipare îmbunătățită a căldurii latente a unui material compozit inovator de tip PEG-silice cu schimbare de fază și formă stabilizată pentru gestionarea termică a bateriilor	ELENA MARIA ANGHEL	ICF – Coordonator / Parteneri: ICECHIM	600000 lei (total) / 310000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-3615	Adsorbanți inteligenți magneto-receptivi pentru remedierea apelor poluate	DANIELA CRISTINA CULITA	ICF - Coordonator	600000 lei (total)/ 360000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-3621	Nanostructuri hibride gazdă pentru bioremedierea enzimatică a apelor uzate	Dr. Mihai Anastasescu	ICF-Coordonator / INSTITUTUL DE BIOLOGIE I(BB)-Partener	600000 lei (total) /310000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-3781	Tehnologie noua pentru obtinerea filmelor ultrasubtiri semiconductoare pe baza de ZnO pentru cellule solare	OANA CATALINA MOCIOIU	ICF - Coordonator / Partener IMNR	600000 lei (total) / 300000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-3784	Metoda de acutocuratare activate fotocatalitic pentru o eficienta mai ridicata a panourilor fotovoltaice	VIORICA PARVULESCU	ICF – Coordonator / Institutul National de CercetareDezvoltare pentruInginerieElectrica ICPE - CA (P1)	600000 lei (total)/ 330000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-4257	Sistem transcutanat de eliberare a medicamentelor cu aplicatii in terapia Alzheimer	FLORINA TEODORESCU	ICF - Coordonator	600000 lei (total)/ 475000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-1590	Platforma pentru indepartarea/recuperareaavansata a poluantilor, bazata pe bio/hidrocharfunctionalizat cu eteri coroana si polietilenglicoli	PETRE IONITA (Universitatea din Bucuresti) GRETA SOCOTEANU (Responsabil Partener ICF)	ICF - Partener	600000 lei (total)/ 275000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-	Anozi pe baza de silice modificata cu	Director proiect	ICSI Rm. Valcea -	600000 lei (total)	In evaluare

	2.1-PED-2021-1863	heteroatomi pentru baterii Li-ion de generatie viitoare	MIHAELA-RAMONA BUGA, (ICSI Rm. Valcea) / Responsabil ICF Raul-Augustin Mitran	coordonatoar / ICF - Partener	/ 220000 lei (ICF)	
PED 2021	PN-III-P2-2.1-PED-2021-2364	Noi biomolecule izolate de la microorganism halofile ca surse inovative cu aplicatii in biotehnologii, medicina si mediu	Director proiect MADALIN-IANCU ENACHE/ Responsabil ICF: M. Enache	Institutul de Biologie – Coordonator/ ICF: Partener	600 000 lei (total) /250 000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-2640	Hidroxiapatite dopate cu nano oxizi pentru tratamentul sustenabil al suprafetelor de piatra	Director proiect LORENA IANCU Responsabil ICF Luminita Predoana	ICECHIM – Coordonator/ ICF - Partener	600000 lei (total) / 250000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-2928	Demonstrator si tehnologie in flux continuu cu fotocatalizator VIS/solar-activ pe substraturi sferice pentru epurarea avansata a apelor uzate	Director proiect: MARIA COVEI Mariuca Gartner (Responsabil P1)	Univ. Transilvania Brasov – Coordonator / ICF – Partener	600000 lei (total)/ 150000 lei (ICF)	In evaluare
PED 2021	PN-III-P2-2.1-PED-2021-3462	Nanoparticule suportate de aur si argint biosintetizate cu proprietati antibacteriene si citotoxice pentru biosenzori plasmonici	Director proiect: GABRIEL LUCIAN RADU / Viorica Parvulescu (Responsabil P1)	Centrul de Bioanaliza, Institutul National de Cercetare-Dezvoltare pentru Stiinte Biologice, Bucuresti (CO) / Institutul de Chimie Fizica-Ilie Murgulescu (P1) / Institutul National de Cercetare-Dezvoltare Chimico-Farmaceutica, Bucuresti (P2 / S.C. Apel Laser S.R.L.	600000 lei (total)/ 170000 lei (ICF)	In evaluare
PED 2021	PN-III-CERC-CO-PED-3-2021	Nanobombe multifunctionale pentru distrugerea eficienta a biofilmelor complexe	Dr. Mihai Anastasescu	UNIVERSITATEA BUCURESTI – Coordonator /	600000 lei (total)/ 280000 lei (ICF)	In evaluare

				INSTITUTUL DE CHIMIE FIZICA - ILIE MURGULESCU - Partener		
PED 2021	PN-III-P2- 2.1-PED- 2021-3693	Platformeetele ctrochimice pe bază de material nanocompozite pentru detectia compuşilor biologic activi	Director proiect: STELIAN LUPU Responsabil ICF: Dr. Cecilia Lete	CO-Universitatea Politehnica Bucuresti/ Partener ICF	600000 lei (total) / 230000 lei (ICF)	In evaluare
PED 2021	PN-III-P2- 2.1-PED- 2021-4171	Transformarea intr-un singur proces a celulozei in molecule platforma: Acidul Lactic	Director proiect: MARIAN NICOLAE VERZIU/ Responsabil ICF: Dr. Victor Fruth	Universitatea Politehnica Bucuresti – Coordonator/ ICF –Partener	600000 lei (total)/ 250000 lei (ICF)	In evaluare
PTE 2021	PN-III-P2- 2.1-PTE- 2021-0033	BIOTEHNOLOGIE INOVATOARE PENTRU OBTINEREA MATERIALELOR TEXTILE INTELIGENTE PENTRU PREVENIREA SI CONTROLUL INFECTIILOR IN SECTOARELE MEDICAL SI HORECA	Director proiect: PATRASCU MARIANA (Primosal SRL)/ Responsabil ICF: Irina Atkinson	Primosal SRL – Coordonator/ ICF –Partener	1200000 lei (total)/ 600000 lei (ICF)	In evaluare
PTE 2021	PN-III-P2- 2.1-PTE- 2021-0393	TRANSFER DE TEHNOLOGII INNOVATIVE DE CO-CRISTALIZARE PENTRU DEZVOLTAREA DE PRODUSE FUNCTIONALE NUTRACEUTICE	Director proiect: IORDACHE COCA (Teracrystal)/ Responsabil ICF: Dr. Victor Fruth	Teracrystal – Coordonator/ ICF: Partener	1200000 lei (total)/ 600000 lei (ICF)	In evaluare
PTE 2021	PN-III-CERC- CO-PTE-3- 2021	Biotehnologie prin care un extras din namol sapropelic, obtinut in mediu artificial, este folosit intrun produs cu scop de remodelare corporala (PN-III-P2-2.1- PTE-2021-0553)	Dr. Crina Anastasescu – Responsabil de proiect	TECHIRGHIOL FARMA COSMETICS SRL-Coordonator / INSTITUTUL DE CHIMIE FIZICA - Partener	1200000 lei (total) / 150000 lei (ICF)	In evaluare
PTE 2021	PN-III-P2- 2.1-PTE- 2021-0592	CELULE DE COMBUSTIE CU ANOZI FARA METALE NOBILE, ALIMENTATE CU BIOETANOL, PENTRU DISPOZITIVE PORTABILE	Director proiect: SOMOGHI VASILE/ Responsabil ICF: Simona Somacescu	STIMPEX S.A. – Coordonator / ICF – Partener	1200000 lei (total) / 280000 lei (ICF)	In evaluare
IC ROADMAP 2021		Infrastructura modernă de cercetare pentru studii fizico-chimice complexe privind materialele avansate, de la	IOAN BALINT	ICF - Coordonator	19305524 EUR	Respins

		macro- la nanoscale (INFRASMART)				
M-ERA.net		Convertor catalitic de mare performanta folosit la purificarea aerului	Mariuca Gartner, CO Carmen Moldovan, P1 Tatjana Juzsakova, P2 Ion Stan, P3	ICF – CO / IMT – P1 / Univ. Panonia Ungaria – P2 / ROMELGEN SA – P3	380000 lei (total)/ 100000 lei (ICF)	Respins
Joint Research Project Proposal	Romanian Academy – National Academy of Sciences of Belarus	The dynamics of confined explosions in fuel-air gaseous mixtures	Movileanu Codina	ICF - Coordonator	On line	In evaluare
Programul Orizont 2020 al Comisiei Europene Subprogramul 3.2. Orizont 2020	MarTERRA-2021	Development of technology for obtaining new composite electromagnetic materials with salient features for application in marine equipment and ships (SeEComp) ID-81/17.03.2021	Responsabil- Dr. Ana-Maria Julieta Popescu	CO-Romania-BEIA P-Romania-ICF P-Germania-Eco Fluential P-Germania P-Germania P-Turcia P-Turcia P-SPMRC, Belarus P-IAP, Belarus	Comisia Europeană, ERA-NET Cofund	Respins din cauza Embargoului asupra R. Belarus
Joint Research Project Proposal Romanian Academy – National Academy of Sciences of Belarus, Belarusian Republican Foundation for Fundamental Research	AR-Relatii externe	Anticorrosive coatings for composite materials with magnetic properties	Director-Dr. Ana-Maria Julieta Popescu	P- State Scientific and Production Association «Scientific-Practical Materials Research Centre of the National Academy of Sciences of Belarus	On line	In evaluare

Ptr 2022-2023						
Joint Research Project Proposal Romanian Academy – National Academy of Sciences of Belarus, Belarusian Republican Foundation for Fundamental Research Ptr 2022-2023	AR-Relatiiexterne	Influence of internal stresses and structure on the development of corrosion processes and degradation of mechanical characteristics in steels of low-pressure natural gas pipelines	Director-Dr.Virgil Constantin	P- The Institute of Applied Physics of the National Academy of Sciences of Belarus	On line	In evaluare
Joint Research Project Proposal Romanian Academy – National Academy of Sciences of Belarus, Belarusian Republican Foundation for Fundamental Research Ptr 2022-2023	AR-relatii externe	Nanocomposites based on cerium oxide and iron nanoparticles as catalysts for heterogeneous oxidation and photocatalysis	Director Dr. Irina Atkison	P- Institute of General and Inorganic Chemistry of the National Academy of Sciences of Belarus		In evaluare

Proiect Interacademic de Mobilitate între INCDCP-ICECHIM Bucuresti Institutul de Chimie Fizica Ilie Murgulescu Academia Romana si Institute of Organic Chemistry with Phytochemistry Center, Bulgaria 2022-2024		Innovative Hybrids with Electric and Magnetic Properties, with Adapted Properties for a Particular Application	Dr. Teodor Sandu-ICECHIM Dr. Irina Atkinson ICF	P Institute of Organic Chemistry with Phytochemistry Center, Bulgaria		In evaluare
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PD 2021 - Proiecte de cercetare postdoctorala

TE 2021 - Proiecte de cercetare pentru stimularea tinerelor echipe independente

PCE 2021 - Proiecte de Cercetare Exploratorie

PED 2021 - Proiecte experimentale

PTE 2021 - Proiecte de transfer economic

IC ROADMAP 2021 - Infrastructuri de cercetare în vederea alcătuirii ROADMAP

LISTA PROPUNERI DE PROIECTE DEPUSE SI RETRASE DIN COMPETITIE, IN ANUL 2021

Tip program	Cod apel	Titluproiect	Director/responsabilproiect	Coordonator/Parteneri	Buget Total/Institutie	Stadiulpropunerii Acceptat/respins/in evaluare
PCE 2021	PN-III-P4-PCE-2021-0816	Retele extinse polimetalice asamblate din patrate moleculare ca noi modele pentru material molecular magnetice si de tip "switch"	Dr. Visinescu Diana Beatrice	ICF - Coordonator	1200000 lei	Proiect retras din competitie

INSTITUTUL DE CHIMIE FIZICĂ “ILIE MURGULESCU”

Colaborări științifice interne

(2021)

1. Universitatea ”Politehnica” București, Facultatea de Chimie Aplicată și Știința Materialelor București, România; Departamentul de Chimie Analitică; Departamentul de Chimie Fizică Aplicată și Electrochimie; Departamentul de Chimie Generală.
2. Universitatea din București, Facultatea de Chimie.
3. Universitatea din București, Facultatea de Biologie.
4. Universitatea din București, Facultatea de Fizică, Centrul de cercetare fizică atomică și astrofizică.
5. Universitatea de Medicină și Farmacie „Carol Davila”, București, Facultatea de Farmacie: Departamentul de Botanică Farmaceutică și Biologie Celulară; Departamentul de Chimie Farmaceutică.
6. Institutul Național de Cercetare-Dezvoltare Chimico-Farmaceutică – ICCF București.
7. Centrul Internațional de Biodinamică, București, România.
8. Institutul de Chimie Organică “C.D. Nenițescu” al Academiei Române.
9. INCDFM Măgurele-București.
10. ICEMENERG.
11. BETA SRL.
12. Institutul pentru Metale Neferoase și Rare (IMNR).
13. Universitatea din Craiova, Dep. Ingineria și Managementul Sistemelor Tehnologice.
14. Universitatea de Medicină și Farmacie din Craiova, România.
15. Universitatea de Vest, Timișoara.
16. Universitatea „Al. I. Cuza”, Iași, Facultatea de Chimie.
17. Universitatea “Al. I. Cuza”, Iași, Facultatea de Fizică.
18. Universitatea “Al. I. Cuza”, Iași, Facultatea de Biologie.
19. Universitatea „Ovidius”, Constanța.
20. Universitatea „Transilvania” Brașov.
21. Universitatea "Politehnica", Timișoara.
22. Universitatea „Dunărea de Jos” din Galați, România.
23. UPG Ploiești.
24. Institutul de Chimia Macromoleculară „Petru Poni” al Academiei Române, Iași.

25. Institutul de Chimie al Academiei Române Timișoara.
26. Institutul Național pentru Fizica Laserilor, Plasmei și Radiației (INFLPR), București.
27. INCĐ Microtehnologie - IMT București, România.
28. ICECHIM, București.
29. Institutul Național de Cercetare-Dezvoltare pentru Inginerie Electrică București.
30. IFIN „Horia Hulubei”.
31. NANOM Mems, SRL, România.
32. ROMELGEN SRL, București, România.
33. Institutul de Pneumoftiziologie „Marius Nasta”.
34. Institutul Cantacuzino.
35. Institutul Național de Cercetare-Dezvoltare pentru Științe Biologice București.
36. INCDSB - Centrul de Bioanaliză, București.
37. R&D Consulting SRL, București.
38. INCDSB București.
39. INFLRP București, România.
40. Institutul de Biologie (IBB) al Academiei Române.
41. Apel Laser SRL.

Colaborări științifice externe

(2021)

1. Institute of Physical Chemistry „Rostislav Kaischew” Sofia, Bulgaria.
2. Faculty of Science Universidad de Cádiz, Spania.
3. Tokyo University of Science, Japonia.
4. Keio University, Japonia.
5. Institut de Chimie Moléculaire et Matériaux d’Orsay, Franta.
6. Japan Women's University.
7. National Institute of Applied Sciences – INSA, Rennes.
8. Scientific Practical Materials Research Center, NAS-Minsk, Belarus.
9. Vernadsky Institute of General and Inorganic Chemistry, Kiev, Ukraine.
10. National Technical University of Ukraine “Kyiv Polytechnical Institute”, Faculty of Chemistry & Technology.
11. Universitat Politècnica de Catalunya, Barcelona, Spania.
12. Universitatea din Valencia, Institutul de Stiinte moleculare (ICMol), Grupul de Chimie Coordinativa, Spania.
13. Instituto de Tecnología Química (ITQ), Valencia, Spania.
14. National Institute of Material Physics, Augsburg University, Resource Energy Chair, Germania.
15. Institut für Physikalische und Theoretische Chemie, Tuebingen, Germany.
16. Purdue University, US.
17. IMDEA Materials Institute, Madrid.
18. National Center for Nanomaterials, Pohang, Coreea de Sud.
19. Aristotle University of Thessaloniki, Laboratory of Inorganic Chemistry and Chemistry of Advanced Materials.
20. Institute of Electronics, Microelectronics and Nanotechnologies (IEMN)-University of Lille, Lille-France.
21. Paul Scherrer Institute, Departament ENE, Villigen, Elvetia.
22. Universitatea din Alcala de Henares, Spania.
23. Universitatea Pannonia din Veszprem, Ungaria.
24. PTB (Physikalisch-Technische Bundesanstalt) Federal Institute for Physical Measurements-Braunschweig, Germania.
25. BAM (Bundesanstalt für Materialforschung und -Prüfung) (Federal Institute for Material Research) – Berlin.

26. Laboratorul de Chimie Coordinativa, CNRS, Universitatea Paul Sabatier din Toulouse, Franta.
27. National Academy of Sciences of Belarus, Belarusian Republican Foundation for Fundamental Research. Mogilev State University of Food Technologies (MSUFT), Department of Heat and Refrigerating Engineering, Mogilev Univ., Belarus.
28. Institutul de Cataliza al Academiei Bulgare de Stiinte, Sofia.
29. Grupul de Ingineria Materialelor – Universitatea Ramon Llull, Barcelona (Grup d'Enginyeria de Materials-GEMAT, Institut Químic de Sarrià, Universitat Ramon Llull, Barcelona);.
30. Centrul de Științele Naturii al Academiei Ungare de Științe, Budapesta, Ungaria.
31. Laboratory of Environmental Chemometrics, Faculty of Chemistry, University of Gdansk.
32. Academia de Stiinte din Bulgaria, Institute of Experimental Morphology, Pathology and Anthropology with Museum, Sofia.
33. Institute of Photonics and Electronics, the CAS.
34. Instituto de Microelectrónica de Barcelona, Spain, Dr. Francisco Javier del Campo.
35. Institute of Solid State of Bulgarian Academy, Sofia, Bulgaria.
36. Institute for Technical Physics and Materials Science, Centre for Energy Research, Budapesta, Hungarian Academy of Sciences.
37. Pannonia University, Budapesta, Ungaria.
38. Micro-Nanoelectronics Centre, Tyndall National Institute, University College Cork, Lee Maltings Complex Dyke Parade, Cork, Ireland.
39. ICMMO (UMR CNRS 8182), Univ. Paris Sud, Univ. Paris Saclay, Orsay, France.
40. De Montfort University, UK.
41. Institutul de Chimie, Republica Moldova.
42. University of St Andrews, Marea Britanie.
43. University of Cambridge, Marea Britanie.
44. Institute of Materials Science of Sevilla, Spania.
45. Brno University of Technology, Republica Cehă.
46. University of Palermo, University of Catania, Italia.
47. University of Porto, Portugalia.
48. University of Cote d'Azur (University of Nice Sophia Antipolis), Franța.
49. University of Split, Croația.
50. Universite Libre de Bruxelles, Belgia.
51. Pavol Jozef Šafárik University in Košice, Slovacia.
52. IRCE-CNRS –Villeurbanne, Franta.
53. Université de Lorraine, Laboratoire Lorrain de Chimie Moléculaire, Faculté des sciences et technologies, Nancy, Franta.

54. Institutul de Chmie Generala si Anorganica al Academiei din Belarus.
55. Istituto di Struttura della Materia (ISM-CNR), Italy.
56. Institutul de Fizica, Centrul de Fizica Starii Solide si Materiale Noi, Belgrad.
57. Institutul de Fotonica si Electronica al Academiei Cehe de Stiinta.
58. Center of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, Poland.
59. Institute of Physical Chemistry, Bulgarian Academy of Science, Sofia, Bulgaria.
60. Technion – Israel Institute of Technology, Chemical Engineering, Haifa, Israel.

Vizitatori din străinătate (2021)

1. **Dr. MRÁZEK Jan**, Institutul de Fonică și Electronică, al Academiei Cehe de Științe, Praga, Cehia. Vizita în perioada 13–17 septembrie, în cadrul temei „*Transparent ceramic luminophores for high-power lasers operating in short infrared range*”, Mobility Project Cehia AR-20-01.
2. **Dr. BARTOŇ Ivo**, Institutul de Fonică și Electronică, al Academiei Cehe de Științe, Praga, Cehia. Vizita în perioada 13–17 septembrie, în cadrul temei „*Transparent ceramic luminophores for high-power lasers operating in short infrared range*”, Mobility Project Cehia AR-20-01.
3. **Dr. Petr VAŘÁK**, Institutul de Fonică și Electronică, al Academiei Cehe de Științe, Praga, Cehia, în perioada 13-17 septembrie 2021, în cadrul temei „*Transparent ceramic luminophores for high-power lasers operating in short infrared range*”, Mobility Project Cehia AR-20-01.
4. **Prof. Dr. Valentin Alexiev** de la Institutul de Cataliza al Academiei Bulgare de Științe, Sofia, în perioada 25 noiembrie – 01 decembrie 2021 pe baza săptămânilor de schimb interacademic aprobate pentru anul 2021. Stagiul se va efectua în cadrul temei de colaborare “*Experimental and Computational Investigations of the adsorbed Photo-switching Molecules*”.
5. **Prof. Dr. Stela Ivanova Minkovska-Dodova** de la Institutul de Cataliza al Academiei Bulgare de Științe, Sofia, în perioada 25 noiembrie – 01 decembrie 2021 pe baza săptămânilor de schimb interacademic aprobate pentru anul 2021. Stagiul se va efectua în cadrul temei de colaborare “*Experimental and Computational Investigations of the adsorbed Photo-switching Molecules*”.
6. **Prof. Sylvain Marque**, Universitatea Marsilia, Franța, în perioada 06-12 decembrie 2021, în cadrul programului Civis.