



Școala Doctorală de Chimie (SD Chem)  
Instituția Organizatoare de Studii Universitare de Doctorat (IOSUD)

Formular de lucru  
DP\_RI\_RIASCODP

Avizat,  
Director SD Chem,  
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Rezultatele învățării prin activități științifice de cercetare originală și dezvoltare profesională a studenților doctoranzi prin activități complementare desfășurate de aceștia, prin participare la programul de studii universitare de doctorat, domeniul de doctorat Chimie, componenta PCS

Centralizator an calendaristic: 2021

Item	Număr
<b>Valorificarea rezultatelor cercetărilor (articole, cărți, capitole de carte etc.)</b>	
Articole științifice publicate in extenso în reviste cotate Web of Science cu factor de impact (cu evidențierea contribuției doctoranzilor)	16
Articole științifice publicate in extenso în reviste indexate fără factor de impact	3
Articole științifice publicate in extenso în reviste indexate BDI	1
Articole științifice publicate in extenso în volumele conferințelor	-
Articole publicate în dicționare și enciclopedii	-
Cărți sau capitole de cărți	-
Cărți	-
Capitole de carte	3
<b>Activități specifice pentru creșterea competitivității și vizibilității cercetării studenților doctoranzi / Participări ale studenților doctoranzi la manifestări științifice naționale și internaționale organizate în străinătate și în țară (postere sau prezentări orale)</b>	
Participări la manifestări științifice organizate în străinătate (peer-reviewed, cu abstract)	14
Participări la școli organizate în țară sau străinătate	21
<b>Altele</b>	
Brevete	-
Proiecte de cercetare în care sunt implicați studenții doctoranzi (proiecte de cercetare științifică cu instituții academice / mediul de afaceri / sectorul public / altele) și Proiecte de mobilitate sau alte proiecte câștigate de studenții doctoranzi	7

#### Articole științifice publicate *in extenso* în reviste cotate Web of Science cu factor de impact

- 1) Lupaescu, A.V., [Mocanu, C.S.](#), Drochioiu, G., Ciobanu, C.I., Zinc binding to NAP-type neuroprotective peptides: Nuclear magnetic resonance studies and molecular modeling, *Pharmaceuticals*, 14(10), 1011, **2021**. DOI: 10.3390/ph14101011, Factor de impact 5,863
- 2) Antoci, V., [Oniciuc, L.](#), Amăriucăi-Mantu, D., Moldoveanu, C., Mangalagiu, V., Amarandei, A.M., Lungu, C.N., Dunca, S., Mangalagiu, I.I., Zbancioc, G., Benzoquinoline Derivatives: A Straightforward and Efficient Route to Antibacterial and Antifungal Agents, *Pharmaceuticals*, 14 (4), 335, **2021**. DOI: 10.3390/ph14040335, Factor de impact 5,863
- 3) [Bucur, S.](#), Diacon, A., Mangalagiu, I., Mocanu, A., Rizea, F., Dinescu, A., Ghebur, A., Boscornea, A.C., Voicu, G., Rusen, E., Bisphenol A Adsorption on Silica Particles Modified with Beta-Cyclodextrins, *Nanomaterials*, 12(1), 39, **2021**. DOI:10.3390/nano12010039, Factor de impact 5,076
- 4) Roman, T., Ghercă, D., Borhan, A. I., Grigoraș, M., Stoian, G., Lupu, N., Turcan, I., Cimpoesu, N., Istrate, B., [Radu, I.](#), [Danila, R.S.](#), Pui, A., Nanostructured quaternary Ni<sub>1-x</sub>Cu<sub>x</sub>Fe<sub>2-y</sub>Ce<sub>y</sub>O<sub>4</sub> complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites. *Ceramics International*, 47(13), 18177-18187, **2021**. DOI: 10.1016/j.ceramint.2021.03.136, Factor de impact 4,527



- 5) [Bucur, S.](#), Niculaua, M., Ciobanu, C.I., Lungu, N.C., Mangalagiu, I., A Simple Synthesis Route for Selectively Methylated  $\beta$ -Cyclodextrin Using a Copper Complex Sandwich Protecting Strategy, *Molecules*, 26(18), 5669, **2021**. DOI:10.3390/molecules26185669, Factor de impact 4,412
- 6) [Negru, G.](#), Kamus, L., Bîcu, E., Shova, S., Sendid, B., Dubar, F., Ghinet, A., Attempts to access a series of pyrazoles lead to new hydrazones with antifungal potential against *Candida* species including azole-resistant strains, *Molecules*, 26(19), 5861, **2021**. DOI: 10.3390/molecules26195861, Factor de impact 4,412
- 7) [Bucur, S.](#), Mangalagiu, I., Diacon, A., Mocanu, A., Rizea, F., Somoghi, R., Ghebaur, A., Boscornea, A.C., Rusen, E., Novel Chemical Architectures Based on Beta-Cyclodextrin Derivatives Covalently Attached on Polymer Spheres, *Polymers*, 13(14), 2338, **2021**. DOI:10.3390/polym13142338, Factor de impact 4,329
- 8) [Roman, C.](#), Roman, T., Arsene, C., Bejan, I., Olariu, R.-I., Gas-phase IR cross-sections and single crystal structures data for atmospheric relevant nitrocatechols, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 256, XXXX, **2021**, DOI: 10.1016/j.saa.2021.120379, Factor de impact 4,098.
- 9) [Diaconu, D.](#), Amăriucăi-Mantu, D., Mangalagiu, V., Antoci, V., Zbancioc, G., Mangalagiu, I.I., Ultrasound assisted synthesis of hybrid quinoline-imidazole derivatives: a green synthetic approach, *RSC Advances*, 11, 38297, **2021**. DOI: 10.1039/D1RA07484A, Factor de impact 3,361
- 10) [Amarandei, C.](#), Negru, A. G., [Soroaga, L. V.](#), Cucu-Man, S. M., Olariu, R. I., Arsene, C., Assessment of Surface Water Quality in the Podu Iloaiei Dam Lake (North-Eastern Romania): Potential Implications for Aquaculture Activities in the Area, *Water*, 13(17), 2395, **2021**. DOI: 10.3390/w13172395, Factor de impact 3,103
- 11) [Mocanu, C.S.](#), Petre, B.A., Ion, L., Drochioiu, G., Niculaua, M., Stoica, I., Homocianu, M., Nita, L.E., Gradinaru, V.R., Structural characterization of a new collagen biomimetic octapeptide with nanoscale self-assembly potential: Experimental and theoretical approaches, *ChemPlusChem*, **2021**. DOI: 10.1002/cplu.202100462, Factor de impact 2,863
- 12) Sandu, M.C., [Soroaga L.V.](#), Balaban, S.I., Chelariu, C., Chiscan, O., Iancu, G.O., Arsene, C., Olariu, R.I., Trace elements distribution in stream sediments of an abandoned U mining site in the Eastern Carpathians, Romania, with particular focus on REEs, *Geochemistry – Chemie der Erde*, 81(2), 125761, **2021**. DOI: 10.1016/j.chemer.2021.125761, Factor de impact: 2,292
- 13) [Mocanu, C.S.](#), Drochioiu, G., The interaction of possible anti-AD ASA-NAP peptide conjugate with tubulin: A theoretical and experimental insight, *International Journal of Peptide Research and Therapeutics*, 27(4), 2487-2503, **2021**. DOI: 10.1007/s10989-021-10267-z, Factor de impact 1,931
- 14) [Necula, R.](#), Zaharia, M., Butnariu, A., Zamfirache, M. M., Surleva, A., Ciobanu, C. I., Pintilie, O., Iacoban, C., Drochioiu, G. Heavy metals and arsenic in an abandoned barite mining area: ecological risk assessment using biomarkers. *Environmental Forensics*, **2021**, 1-12. DOI: 10.1080/15275922.2021.1976315. Factor de impact: 1,328.

#### Studii post-doctorale

- 1) Al Matarneh M.-C., [Amarandi R.-M.](#), Mangalagiu I.I., Dănac R., Synthesis and Biological Screening of New Cyano-Substituted Pyrrole Fused (Iso)Quinoline Derivatives, *Molecules*, 26, 2066, **2021**. DOI: [10.3390/molecules26072066](https://doi.org/10.3390/molecules26072066), Factor de impact: 4,412
- 2) Maeser, S., Petre, B.A., [Ion, L.](#), Rawer, S., Kohlschütter, A., Santorelli, F.M., Simonati, A., Schulz, A., Przybylski, M., Enzymatic diagnosis of neuronal lipofuscinoses in dried blood spots using substrates for concomitant tandem mass spectrometry and fluorimetry, *Journal of Mass Spectrometry*, 56(1), e4675, **2021**. DOI: 10.1002/jms.4675, Factor de impact: 1,982

#### Articole științifice publicate in extenso în reviste indexate fără factor de impact

- 1) [Roman, C.](#), Arsene, C., Bejan, I. G., and Olariu, R.-I., Investigations on the gas-phase photolysis and OH radical kinetics of nitrocatechols: Implications of intramolecular interactions on their atmospheric behavior, *Atmos. Chem. Phys. Discuss.* <https://doi.org/10.5194/acp-2021-553>, in review, **2021**.
- 2) Darie-Ion, L., Drochioiu, G., Pui, A., [Mihalcea, E.](#), Gradinaru, V. R., Drochioiu, G. Zein conjugates of biomedical interest: synthesis and characterization by MALDI-ToF mass spectrometry and Fourier transform infrared spectroscopy. 25. *Advances in Biotechnology, XXI<sup>th</sup> International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021, Albena, Bulgaria, 14 - 22 August, 2021.* [https://www.sgem.org/documents/2021/programme/Day6\\_programme\\_poster.pdf](https://www.sgem.org/documents/2021/programme/Day6_programme_poster.pdf).



### Studii post-doctorale

- 1) [Stoleru, E.](#), Dumitriu, R.P., Brebu, M., Vasile, C., Enache, A. Development of bioactive polymeric materials by incorporation of essential/vegetal oils into biopolymer matrices. Proceedings 69, 25, **2021**. <https://doi.org/10.3390/CGPM2020-07197>

### Articole științifice publicate in extenso în reviste indexate BDI

- 1) Coltun, M., Rosca, I., Gille, E., Bogdan, A., [Necula, R.](#), Biomorphological and biochemical peculiarities of the growth and development of the species *Elsholtzia ciliata* (Thunb.) Hyl. under the pedoclimatic conditions of the Republic of Moldova, *Studia Universitatis Moldaviae, Seria “Științe reale și ale naturii”*, nr. 6(146), 34-38, **2021**.

### Capitole carte

#### Studii post-doctorale

- 1) [Stoleru, E.](#), Poly(lactic acid)-based materials: Food packaging applications and biodegradability evaluation, in *Applications of biodegradable and bio-based polymers for human health and a cleaner environment*, Stoica, I., Mukbaniani, O., Rawat, N. K., Haghi, A. K. (eds.), Apple Academic Press (Taylor&Francis Group) **2021**, pp. 239-266.
- 2) [Stoleru, E.](#), Irimia, A., Butnaru, E. Bio-Based bioplastics in active food packaging, in *Bioplastics for sustainable development*, Kuddus, M., Z.M.R., Roohi (eds.), Springer Gateway East, Singapore, **2021**, pp. 347-379.
- 3) Butnaru, E., [Stoleru, E.](#), Irimia, A. Synthetic bioplastics in active food packaging, in *Bioplastics for sustainable development*, Kuddus M. and Roohi Z.M.R. (eds.), Springer Gateway East, Singapore **2021**, pp. 381-398.

### Manifestări științifice internaționale

- 1) ISPEC 12<sup>th</sup> International Conference on Engineering & Natural Sciences, Bingöl, Turkey, 24-25 December, 2021 <https://en.ispecongress.org/books> [Jitaru, S.J.](#), Mocanu, C.S., Gradinaru, R.V., Petre, B.A., Ion, L., Stoica, I., Drochioiu, Copper binding studies and pH-triggered assembly of a double Phe-flanked peptide, Abstract in The proceedings book, pp 188, **2021**.
- 2) SGEM International Scientific Conferences on Earth & Planetary Sciences – Extended scientific session „Green Sciences for Green Life”, Vienna, Austria, 7-10 December, 2021 <https://www.sgemviennagreen.org/index.php> [Amarandei, C.](#), Olariu, R.I., Arsene, C., Variability of pinene oxidation products in the atmospheric aerosols from the northeastern Romania. Influence of the meteorological parameters.
- 3) SGEM International Scientific Conferences on Earth & Planetary Sciences – Extended scientific session „Green Sciences for Green Life”, Vienna, Austria, 7-10 December, 2021 <https://www.sgemviennagreen.org/index.php> [Soroaga, L.V.](#), Arsene, C., Olariu, R.I., The evaluation of Na<sub>2</sub>O<sub>2</sub> as a sintering agent in solid state dissolution of potential secondary sources for Rare Earth Elements
- 4) 10<sup>th</sup> International Conference on Molecular Electronics (ElecMol), Lyon, France, 29<sup>th</sup> of November to the 2<sup>nd</sup> of December, 2021 <https://elecmod20.sciencesconf.org/> [Ciorteanu, R.](#), Mangalagiu, V., Zbancioc, G., Moldoveanu, C., Mangalagiu, I., Optoelectronics properties of some new tetracyclic azaheterocycles
- 5) A EMBL Conference: Bringing Molecular Structure to Life: 50 Years of the PDB, Heidelberg, Germany, virtual, 20-22 October, 2021 <https://www.embl.org/about/info/course-and-conference-office/events/pdb21-01/> [Mocanu, C.S.](#), Drochioiu, G., A systematic approach of molecular neurodegeneration and neuroprotective pathways through Protein Data Bank structures: A theoretical study of Alzheimer's disease
- 6) 2<sup>nd</sup> International Conference On Nanomaterials, Nanofabrication And Nanocharacterization, NANOMACH 2021, Liberty Hotels Lykia, Oludeniz MUĞLA / TURKEY, 17-23 October, 2021 <https://ichem.md/en/scientific-seminar-new-frontiers-natural-product-chemistry-2021> Amărăndi, R.-M., Ibănescu, A., [Dănilă, R.S.](#), Drăgoi, B., A Multi-Technique Approach to Characterize the Adsorption of Plasma Proteins on Layered Double Hydroxides, POSTER NANOMACH704
- 7) 4<sup>th</sup> International Conference on Sustainable Science and Technology (ICSuSaT-2021), Turkey, 01-02 October, 2021, online <https://icsusat.net/icsusat-2021> Amăriucăi-Mantu, D., [Oniciuc, L.](#), [Diaconu, D.](#), Ciobanu, C., Mangalagiu, I.I., Mangalagiu, V., Antoci, V., Novel tetrahydropyrrolo-benzo[f]quinoline



- compounds: synthesis and characterizations, Abstract in Book of Abstracts of 4<sup>th</sup> International Conference on Sustainable Science and Technology, poster 34, 2021.
- 8) **ECLA 2020 European Conference on Laboratory Astrophysics, Linking dust, ice and gas in Space, Anacapri, Italy, 26 September – 1 October, 2021** <https://www.frcongressi.it/ecla2020/> Gerber, I.C., Pohoata, V., Topala, I., Mihaila, I., [Soroaga, L.V.](#), Pirim, C., Duca, D., Focsa, C., Interstellar Dust Analogs Obtained in Dielectric Barrier Discharge. Synthesis and Characterisation
  - 9) **Adriatic NMR Conference, Primosten, Croatia, 13-15 September, 2021** <https://adriatic-nmr-conference.chem.pmf.hr/registration.html> Mangalagiu, V., [Diaconu, D.](#), Mangalagiu, I.I., Quinoline derivatives: a NMR structure elucidation, Abstract in Book of Abstracts of Adriatic NMR Conference, pag. 54, 2021. (Poster)
  - 10) **International Conference of Bulgarian Peptide Society, Velingrad, Bulgaria, 27-29 August, 2021** [http://bulpepsoc.info/?page\\_id=717](http://bulpepsoc.info/?page_id=717) [Mocanu, C.S.](#), Gradinaru, V.R., Drochioiu, G., Metal ions interaction with amyloid-beta monomer and fibril, a theoretical and experimental approach: Implications for Alzheimer disease progression
  - 11) **Materials, Methods & Technologies – 23<sup>th</sup> International Conference, Burgas, Bulgaria, 19-22 August, 2021** <https://www.sciencebg.net/en/conferences/materials-methods-and-technologies/> [Radu, I.](#), Roman, T., Virlan, C., Pui, A., Gadolinium (Gd<sup>3+</sup>) substituted zinc manganese ferrite: synthesis and characterization
  - 12) **XXI<sup>th</sup> International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management-SGEM, Albena, Bulgaria, 14-22 August, 2021.** Darie-Ion, L., Drochioiu, G., [Jitaru, S.J.](#), Mocanu, C.S., Petre, B.A., Drug-Peptide Conjugates: Solid Phase Synthesis and Mass Spectrometric Characterization.
  - 13) **XXI<sup>th</sup> International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management-SGEM, Albena, Bulgaria, 14-22 August, 2021.** [https://www.sgem.org/documents/2021/programme/Day6\\_programme\\_poster.pdf](https://www.sgem.org/documents/2021/programme/Day6_programme_poster.pdf). Darie-Ion, L., Drochioiu, G., Pui, A., [Mihalcea, E.](#), Gradinaru, V. R., Drochioiu, G. Zein conjugates of biomedical interest: synthesis and characterization by MALDI-ToF mass spectrometry and Fourier transform infrared spectroscopy, 25-Advances in Biotechnology.
  - 14) **New Frontiers in Natural Product Chemistry, Chisinau, Republic of Moldova, 4 June, 2021** <https://ichem.md/en/scientific-seminar-new-frontiers-natural-product-chemistry-2021> Ciorteanu, R., [Diaconu, D.](#), Antoci, V., Amăriucăi-Mantu, D., Ciobanu, C., Mangalagiu, V., Mangalagiu, I.I., New hybrid quaternary salts with pyridine/benzimidazole skeleton, Abstract in Book of Abstracts of New Frontiers in Natural Product Chemistry, pag. 23, poster, 2021. <http://dx.doi.org/10.19261/nfnpc.2021.ab17>

#### Manifestări științifice naționale (postere și prezentări orale)

- 1) **Ph.D. Students' Days, Faculty of Food Engineering, Tourism and Environmental Protection Conference, Arad, Romania, November 26, 2021** <https://fiatpm.uav.ro/avizier/phd-students-day> [Jitaru, S.J.](#), Mocanu, C.S., Gradinaru, R.V., Petre, B.A., Stoica, I., Drochioiu, G., A synthetic lysozyme-derived peptide: interaction with copper ions and self-assembling studies, Abstract in Book of abstracts, pp 8, 2021.
- 2) **Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021** <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> [Amarandei, C.](#), Olariu, R.I., Arsene, C., Source apportionment of the organic aerosols in Iasi urban area using the molecular tracer method, Abstract în Rezumate, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, „Chimia - frontieră deschisă spre cunoaștere”, ediția a XII-a, Iași, pp. 18-19, 2021.
- 3) **Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November 2021** <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> [Apostol V.](#), [Roman C.](#), [Iancu C.](#), Olariu R. I., Arsene C., Long-term monitorization of optical properties of tropospheric aerosols in Iasi urban area, north-eastern Romania, Abstract in Book of abstracts, pp. 10, 2021.
- 4) **Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021** <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> [Ciorteanu, R.](#), Antoci, V., Amăriucăi-Mantu, D. Ciobanu, C., Mangalagiu, V.,



- Mangalagiu, I., A new pathway to obtain quaternary salts with sulfanilamide-benzimidazole skeleton, Abstract in SCSSMD 2021.
- 5) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Dănilă R. Ș., Ignat M., Amărăndi R., Pui A., Sinteza, caracterizarea și aplicabilitatea unor nanocompozite magnetice de tipul  $MFe_2O_4@HaP$ , unde  $M = Co, Cu, Mg, Mn, Ni$ , poster.
  - 6) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Jitaru, S.J., Mocanu, C.S., Gradinaru, R.V., Petre, B.A., Drochioiu, G., An inspired natural peptide: synthesis, characterization and interaction with copper ions, Abstract in Book of abstracts, 2021.
  - 7) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Măirean, C.P., Roman, C., Bejan, I.G., Arsene, C., Olariu, R.I., Gas-phase kinetic study of some selected cis-3-hexenyl esters with the OH radicals, Abstract in CSSMD 2021.
  - 8) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Negru, G., Kamus, L., Bîcu, E., Shova, S., Sendid, B., Dubar, F., Ghinet, A., A new series of hydrazones with antifungal activity against candida species, 2021.
  - 9) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Radu, I., Turcan, I., Lukacs, A.V., Pui, A., Gadolinium ( $Gd^{3+}$ ) substituted zinc-manganese nanoferrites as acetone sensors, Abstract in SCSSMD 2021.
  - 10) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Roman C., Arsene C., Bejan I.G., Olariu R.-I., Revisited SAR parameters derived from newly determinations rate coefficients for the gas-phase reactions of OH radicals with a series of nitrocatechols, Abstract in SCSSMD 2021 Book of Abstracts.
  - 11) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Roman C., Arsene C., Bejan I.G., Olariu R.-I., Investigations on the gas-phase photolysis and OH radical kinetics of nitrocatechols, Abstract in SCSSMD 2021 Book of Abstracts.
  - 12) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Rusu (Vasilache) A.-M., Roman C., Arsene C., Bejan I.G., Olariu R.-I., OH radicals and ozone kinetic studies with some methyl-butenols under simulated atmospheric conditions, Abstract in SCSSMD 2021 Book of Abstracts.
  - 13) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Soroaga, L.V., Arsene, C., Olariu, R.I., Evaluation of the extended uncertainty for the quantification of rare earth elements by Inductively Coupled Plasma-Mass Spectrometry
  - 14) Scientific Session of Undergraduate, Master and PhD Students, Iasi, Romania, 11-12 November, 2021 <https://www.chem.uaic.ro/files/File/2021-2022/ssmd-11-12-noiembrie-2021/2021program-scssmd-11-12-noiembrie.pdf> Zubas, A., Ghinet, A., Shova, S., Bîcu, E., A new electron-deficient alkyne as dipolarophile in the synthesis of new indolizine derivatives, 2021.
  - 15) TIM 20-21 PHYSICS CONFERENCE, Applied Physics and Interdisciplinarity (API), 11-12 November, 2021, Iasi Sabie, V., Constantin, C. P., Dănilă, R. Ș., Radu, I., Pui, A., Caltun, O. F., Iacomi, D. F., Brinza F., Pricop, D., Study of cobalt and zinc ferrite nanoparticles uncoated and coated with silver for magnetic resonance imaging applications, prezentare orală.
  - 16) Progress in Organic and Macromolecular Compounds 28<sup>th</sup> Edition, Iasi, 7 – 9 October 2021 <https://icmpp.ro/macroiiasi2021/index.php> Ciorteanu, R., Antoci, V., Amăriucăi-Mantu, D., Ciobanu, C., Mangalagiu, V., Mangalagiu, I., New hybrid quaternary salts with sulfanylamide/benzimidazole skeleton.
  - 17) CPPA 2021 – 19<sup>th</sup> International Conference on Plasma Physics and Applications, Magurele-Bucharest, Romania, 31 August – 3 September, 2021 <https://cppa2021.infipr.ro/> Gerber, I.C., Soroaga, L.V.,



- Mihaila, I., Pohoata, V., Andrei, R.F., Iancu, D., Straticiu, M., Topala, I., Energetic Processing of Interstellar Dust Analogs Obtained in Dielectric Barrier Discharge
- 18) Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE III), Faculty of Chemistry and Chemical Engineering Conference, Cluj-Napoca, Romania, 4-5 June, 2021 <http://www.chem.ubbcluj.ro/~schr/yriccce2020/index.html> Jitaru, S.J., Gradinaru, R.V., Petre, B.A., Drochioiu, G., Synthesis and Characterization of Some Gel-forming Peptides, Abstract in Book of abstracts, pp 17, 2021.
- 19) Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE III), Faculty of Chemistry and Chemical Engineering Conference, Cluj-Napoca, Romania, 4-5 June, 2021 <http://www.chem.ubbcluj.ro/~schr/yriccce2020/index.html> Mocanu, C.S., Drochioiu, G., A theoretical and experimental perspective on the involvement of amyloid-beta peptide in Alzheimer disease, Abstract in Conference Program 2021.
- 20) Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE III), Faculty of Chemistry and Chemical Engineering Conference, Cluj-Napoca, Romania, 4-5 June, 2021 <http://www.chem.ubbcluj.ro/~schr/yriccce2020/index.html> Mocanu, C.S., Drochioiu, G., Structural and biocompatibility improvements of NAP peptide-based drugs: A neuroprotective pathway, Abstract in Conference Program 2021.

#### Studii post-doctorale

- 1) International Congress of „Apollonia” University from Iași, Edition XXXI, Online, 1 - 3 March 2021 [Stoleru, E.](#), Brebu, M., Dumitriu, R.P., Irimia, A. Oil-loaded chitosan coatings towards a bioactive food contact material, comunicare.

Proiecte de cercetare în care sunt implicați studenții doctoranzi (proiecte de cercetare științifică cu instituții academice / mediul de afaceri / sectorul public / altele) și Proiecte de mobilitate sau alte proiecte câștigate de studenții doctoranzi

Nr. crt.	Student doctorand	Proiect
1	AMARANDEI Cornelia	<b>Programul Operațional Competitivitate POC 2014-2020/448/1/1/Mari infrastructuri de CD/1/Mari infrastructuri de CD/ Axa Prioritară 1/ Prioritatea de investiții 1a/Cod MySMIS: 127324</b> Contract de finanțare nr. 322/04.09.2020 Titlu acțiune: Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici în România Acronim: RECENT AIR Director de proiect: Prof. univ. dr. habil. Cecilia ARSENE Alte detalii relevante: valoarea totală a contractului: 89.490.216,60 de lei
2	CIORTEANU Roxana Elena	<b>PN-III-P4-ID-PCE-2020-0371</b> Contract de finanțare PCE 115 din 11/02/2021 Titlu acțiune: Dezvoltarea unei noi generații de agenți antimicrobieni cu schelet hibrid azaheterociclic prin metode ecologic prietenoase Acronim: ANTIM-HET-ECO Director de proiect: Prof. dr. Ionel MANGALAGIU
3	CUCU (căs. DIACONU) Dumitrela	<b>PN-III-P4-ID-PCE-2020-0371</b> Contract de finanțare PCE 115 din 11/02/2021 Titlu acțiune: Dezvoltarea unei noi generații de agenți antimicrobieni cu schelet hibrid azaheterociclic prin metode ecologic prietenoase Acronim: ANTIM-HET-ECO Director de proiect: Prof. dr. Ionel MANGALAGIU
4	DĂNILĂ Ștefania Raluca-	<b>PN-III-P4-2-ID-PCE-2020-1385</b> Contract de finanțare nr. PCE 200/2021 Titlu acțiune: Nanoreactoare fotocatalitice inovative de tip miez/manta@gol@manta Acronim: GHOST 3 D Director de proiect: Prof. univ. dr. Aurel Puil



5	ION Smărăndița	Cristina-	<b>PN-III-P4-ID-PCE-2020-0371</b> Contract de finanțare PCE 115 din 11/02/2021 Titlu acțiune: Dezvoltarea unei noi generații de agenți antimicrobieni cu schelet hibrid azaheterociclic prin metode ecologic prietenoase Acronim: ANTIM-HET-ECO Director de proiect: Prof. dr. Ionel MANGALAGIU
6	MOCANU Ștefan	Cosmin	<b>PN-III-P2-2.1-PED-2019-2484</b> Contract de finanțare nr. 494PED/2.11.2020 Titlu acțiune: Conceperea de platforme peptidice moderne inspirate din lumea vie Acronim: Bio-PASCAL Director de proiect: Conf. univ. dr. Vasile Robert GRĂDINARU Alte detalii relevante: <a href="https://teclu.chem.uaic.ro/bio-pascal">https://teclu.chem.uaic.ro/bio-pascal</a>
7	NEGRU (căs. APOSTOL)	Georgiana	<b>PN-III-P4-ID-PCE-2020-0818/195/2021</b> Contract de finanțare nr. PCE 195/2021 Titlu acțiune: Liganzi P2X7R ca agenți terapeutici potențiali pentru tratamentul bolilor inflamatorii cronice ale intestinului și ale cancerului aferent Acronim: REPAIR Director de proiect: Dr. habil. Alina GHINEȚ
8	RADU Ioana		<b>PN-III-P4-2-ID-PCE-2020-1385</b> Contract de finanțare nr. PCE 200/2021 Titlu acțiune: Nanoreactoare fotocatalitice inovative de tip miez/manta@gol@manta Acronim: GHOST 3 D Director de proiect: Prof. univ. dr. Aurel Pui
9	ROMAN Claudiu		<b>Programul Operațional Competitivitate POC 2014-2020/448/1/1/Mari infrastructuri de CD/1/Mari infrastructuri de CD/ Axa Prioritară 1/ Prioritatea de investiții 1a/Cod MySMIS: 127324</b> Contract de finanțare nr. 322/04.09.2020 Titlu acțiune: Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici în România Acronim: RECENT AIR Director de proiect: Prof. univ. dr. habil. Cecilia ARSENE Alte detalii relevante: valoarea totală a contractului: 89.490.216,60 de lei
			<b>PN-III-P2-2.1-PED-2019-4972</b> Contract de finanțare nr. 444PED/2019 Titlu acțiune: PHOTolysis of Nitroaromatic Compounds: new source of HONO and Secondary Organic Aerosols formation in the atmosphere Acronim: PHONIC-HONO-SOA Director de proiect: BEJAN Iustinian
10	ȘOROAGĂ Valentin	Laurențiu	<b>Programul Operațional Competitivitate POC 2014-2020/448/1/1/Mari infrastructuri de CD/1/Mari infrastructuri de CD/ Axa Prioritară 1/ Prioritatea de investiții 1a/Cod MySMIS: 127324</b> Contract de finanțare nr. 322/04.09.2020 Titlu acțiune: Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici în România Acronim: RECENT AIR Director de proiect: Prof. univ. dr. habil. Cecilia ARSENE Alte detalii relevante: valoarea totală a contractului: 89.490.216,60 de lei



11	ZUBAȘ Andreea	<b>PN-III-P4-ID-PCE-2020-0818/195/2021</b> Contract de finanțare nr. PCE 195/2021 Titlu acțiune: Liganzi P2X7R ca agenți terapeutici potențiali pentru tratamentul bolilor inflamatorii cronice ale intestinului și ale cancerului aferent Acronim: REPAIR Director de proiect: Dr. habil. Alina GHINEȚ
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Nr. crt.	Proiect	Student doctorand
1	<b>Programul Operațional Competitivitate POC 2014-2020/448/1/1/Mari infrastructuri de CD/1/Mari infrastructuri de CD/ Axa Prioritară 1/ Prioritatea de investiții 1a/Cod MySMIS: 127324</b> Contract de finanțare nr. 322/04.09.2020 Titlu acțiune: Centru de cercetare cu tehnici integrate pentru investigarea aerosolilor atmosferici în România Acronim: RECENT AIR Director de proiect: Prof. univ. dr. habil. Cecilia ARSENE Alte detalii relevante: valoarea totală a contractului: 89.490.216,60 de lei	AMARANDEI Cornelia ROMAN Claudiu ȘOROAGĂ Laurențiu Valentin
2	<b>PN-III-P4-ID-PCE-2020-0371</b> Contract de finanțare PCE 115 din 11/02/2021 Titlu acțiune: Dezvoltarea unei noi generații de agenți antimicrobieni cu schelet hybrid azaheterociclic prin metode ecologic prietenoase Acronim: ANTIM-HET-ECO Director de proiect: Prof. dr. Ionel MANGALAGIU	CIORTEANU Roxana Elena CUCU (căs. DIACONU) Dumitrela ION Cristina-Smărăndița
3	<b>PN-III-P4-2-ID-PCE-2020-1385</b> Contract de finanțare nr. PCE 200/2021 Titlu acțiune: Nanoreactoare fotocatalitice inovative de tip miez/manta@gol@manta Acronim: GHOST 3 D Director de proiect: Prof. univ. dr. Aurel Pui	DĂNILĂ Raluca-Ștefania RADU Ioana
4	<b>PN-III-P2-2.1-PED-2019-2484</b> Contract de finanțare nr. 494PED/2.11.2020 Titlu acțiune: Conceperea de platforme peptidice moderne inspirate din lumea vie Acronim: Bio-PASCAL Director de proiect: Conf. univ. dr. Vasile Robert GRĂDINARU Alte detalii relevante: <a href="https://teclu.chem.uaic.ro/bio-pascal/">https://teclu.chem.uaic.ro/bio-pascal/</a>	MOCANU Cosmin Ștefan
6	<b>PN-III-P2-2.1-PED-2019-4972</b> Contract de finanțare nr. 444PED/2019 Titlu acțiune: PHOtolysis of Nitroaromatic Compounds: new source of HONO and Secondary Organic Aerosols formation in the atmosphere Acronim: PHONIC-HONO-SOA Director de proiect: BEJAN Iustinian	ROMAN Claudiu
7	<b>PN-III-P4-ID-PCE-2020-0818/195/2021</b> Contract de finanțare nr. PCE 195/2021	NEGRU Georgiana ZUBAS Andreea



Titlu acțiune: Liganzi P2X7R ca agenți terapeutici potențiali pentru tratamentul bolilor inflamatorii cronice ale intestinului și ale cancerului aferent Acronim: REPAIR Director de proiect: Dr. habil. Alina GHINEȚ	
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Întocmit,

Prenume NUME, Statut (conducător / student doctorand)