

LISTA LUCRĂRILOR PUBLICATE

LISTA CELOR MAXIM 10 LUCRĂRI CONSIDERATE A FI CELE MAI RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII ȘI PENTRU DOMENIUL DISCIPLINELOR POSTULUI

1. Octavian Pacioglu, Nicoleta Ianovici, Mărioara Filimon, Adrian Sinitean, Gabriel Iacob, Henrietta Barabas, **Alexandru Pahomi**, Andrei Acs, Hanelore Muntean și Lucian Pârvulescu, *The multifaceted effects induced by floods on the macroinvertebrate communities inhabiting a sinking cave stream*, Int. J. Speleol., vol. 48, no. 2, pp. 167–177, 2019, doi: 10.5038/1827-806X.48.2.2239 ((FI₂₀₁₉= 1,730, FI₂₀₂₃= 1,3))
2. **Alexandru Pahomi**, Gabriela Vlase, Alexandra Toma, Gheorghe Ilia, Violeta Turcuș, Nicolae Doca și Titus Vlase, *Synthesis, thermal behavior and FTIR study of some hydroxyapatite precursors doped with two metals*, J. Therm. Anal. Calorim., vol. 138, no. 3, pp. 2175–2183, 2019, doi: <https://doi.org/10.1007/s10973-019-08550-9> (FI₂₀₁₉= 2,731, FI₂₀₂₃= 3)
3. Ionela- Amalia Bradu, Titus Vlase, Mădălin Bunoiu, Mădălina Grădinaru, **Alexandru Pahomi**, Dorothea Bajas, Mihaela- Maria Budiul și Gabriela Vlase, *Synthesis and Characterization of Polymer-Based Membranes for Methotrexate Drug Delivery*, Polymers (Basel), vol. 15, no. 21, p. 4325, 2023, doi: 10.3390/polym15214325 (FI₂₀₂₃= 4,7)
4. Mihaela- Maria Budiul, Gabriela Vlase, Daniel Negru, Dorinel Okolișan, Ionela- Amalia Bradu, Alexandra Tășală, **Alexandru Pahomi**, Titus Vlase, Daniela Jumanca, Atena Galuscan, Paula Sfirloaga, Nicoleta Carabă, Roxana Popescu și Anamaria Matichescu, *Dental biopolymer composites with antibiotics, bisphosphonate, and hydroxyapatite for possible use in bone tissue regeneration*, J. Chem., ID articol: 6614044, 2024, doi: <https://doi.org/10.1155/2024/6614044> (FI₂₀₂₃= 2,8)
5. Denisa Circioban, Adriana Ledeti, Amalia Ridichie, Titus Vlase, Ionuț Ledeti, Ionela- Amalia Bradu, **Alexandru Pahomi**, Laura Sbârcea, Gabriela Vlase, *Compatibility study of mirtazapine with several excipients used in pharmaceutical dosage forms employing thermal and non-thermal methods*, J. Therm. Anal. Calorim., vol. 1, no. 15, 2024, doi: 10.1007/s10973-024-13181-w (FI₂₀₂₃= 3)
6. **Alexandru Pahomi**, Ionela- Amalia Bradu, Dorian- Gabriel Neidoni, Gheorghe Ilia, *Influence of biphasic calcium phosphate incorporation into alginate matrices*, Mater. Plast., vol. 61, no. 2, pp. 15–27, 2024, doi: 10.37358/MP.24.2.5716 (FI₂₀₂₃= 0,6)
7. Dorinel Okolișan, Titus Vlase, Gabriela Vlase, Ionela Amalia Bradu, **Alexandru Pahomi**, Anamaria Matichescu, *Biopolymer patches for the simultaneous incorporation of local anesthetic and anti-inflammatory drugs*, J. Therm. Anal. Calorim., no. 1, 2024, doi: 10.1007/s10973-024-13225-1 (FI₂₀₂₃= 3)
8. Bianca-Denisa Cernușcă, Ionela- Amalia Bradu, **Alexandru Pahomi**, Dorinel Okolisan, Mihaela- Maria Budiul, Gabriela Vlase, Titus Vlase, *Study of thermally induced interactions between active substances from the sartans class and various excipients*, J. Therm. Anal. Calorim. J., no. 0123456789, 2024, doi: 10.1007/s10973-024-13477-x (FI₂₀₂₃= 3)

FI_{cumulat}= 21,4

TITLUL TEZEI DE DOCTORAT : Contribuții la chimia și aplicațiile hidroxiapatitei

LISTA LUCRĂRILOR INDEXATE BDI PUBLICATE

1. Daniela Dascălu, Delia Isac, **Alexandru Pahomi**, Adriana Isvoran, *Stability and Aromaticity of Some Conjugated Systems By Quantum Analysis At the Hückel Level*, Rom. J. Biophys., vol. 28, no. 2, pp. 59–75, 2018
2. Maria-Isabela Pleșu, Ioana-Maria Toplicean, **Alexandru Pahomi**, Daniela Georgiana Ciobanu, Adina- Daniela Datcu, *Preliminary study regarding physiological behaviour of Plantago major in urban habitat using different methods. Case study: Timișoara*, Annals of West University of Timișoara, ser. Biology, vol. 25, no. 2, pp.79-88, 2022
3. Dorian-Gabriel Neidoni, Valeria Nicorescu , Sorina Negrea, Catalina Stoica , **Alexandru Pahomi**, Mihai Nita-Lazar, *Diatoms. A viable tool for quantifying surface water pollution*, Rom. J. Ecol. Environ. Chem., vol. 5, no. 1, pp. 31–41, 2023, doi: 10.21698/rjeec.2023.104

LISTA PUBLICAȚIILOR ÎN EXTENSO

1. **Alexandru Pahomi**, Maria Bălășoiu, Yulia Gorshkova, Vitalii Turchenko, Nikolay Lizunov, Dorina Anghel, Andrey Rogachev, Alexander Kuklin, *Small-angle x-ray scattering of alginate membranes doped with CoFe₂O₄ nanoparticles. Preliminary results*, International Conference „Biomembranes”, 1-5 octombrie 2018 (Dolgoprudny, Rusia), no. E18-2018-58, pp.1-20, 2018 din Preprint of the Joint Institute for Nuclear Research
2. Dorian-Gabriel Neidoni, Mihaela Dragalina, Valeria Nicorescu, Amanda Izabela Siminic, Dan Alin Pop, **Alexandru Pahomi**, *Lemna minor L. and Pistia stratiotes L. in the accumulation of total phosphorus from the water*, 25th International Symposium on Analytical and Environmental Problems, 7-8 octombrie 2018 (Szeged, Ungaria), pp. 207-210 din Proceedings of the 25th International Symposium on Analytical and Environmental Problems

LISTA CONFERINȚELOR

1. **Alexandru Pahomi**, Gabriela Vlase, Alexandra Toma, Nicolae Doca, Gheorghe Ilia, Titus Vlase, *Synthesis, thermal behaviour and FT-IR study of some hydroxyapatite precursors doped with two metals*, 12th European Symposium on Thermal Analysis and Calorimetry, 27-30 august 2018 (Brașov, Romania), PS1.140, pag. 324 din Book of Abstracts
2. Mădălina Mateescu, Lavinia Popescu, Gabriela Vlase, **Alexandru Pahomi**, Daniela Jumanca, Titus Vlase, *Comparative study regarding thermal behaviour of mixtures based on hydroxyapatite and methacrylate for dental use*, 12th European Symposium on Thermal Analysis and Calorimetry, 27-30 august 2018 (Brașov, Romania), PS1.146, pag. 330 din Book of Abstracts
3. **Alexandru Pahomi**, Maria Bălășoiu, Yulia Gorshkova, Vitalii Turchenko, Nikolay Lizunov, Dorina Anghel, Andrey Rogachev, Alexander Kuklin, *Structural study of*

- magnetic alginate membranes with CoFe₂O₄ nanoparticles for biomedical applications*, International Conference „BIOMEMBRANES 2018”, 01-05 octombrie 2018 (Dolgoprudny, Rusia), pag. 59 din Book of Abstracts, doi: 10.1007/s10863-018-9775-7
4. Nicoleta Săculțeanu, **Alexandru Pahomi**, Beatrice Vlad- Oros, Daniela Dascălu, *Preliminary studies on chitosan based membrane composites*, 2nd Edition of Nano-modeling of strategic materials for knowledge economy (NANO-MOD 2019), 22-23 aprilie 2019 (Timișoara, România), pp. 44-45 din Book of Abstracts
 5. Nicoleta Săculțeanu, **Alexandru Pahomi**, Beatrice Vlad- Oros, Daniela Dascălu, *Influence of Molecular Weight on Chitosan-Based Membranes Properties*, International Conference "Students for Students", 03–07 aprilie 2019 (Cluj-Napoca, România), P 03
 6. **Alexandru Pahomi**, Maria Bălăsoiu, Yulia Gorshkova, Vitalii Turchenko, Nikolay Lizunov, Dorina Anghel, Andrey Rogachev, Alexander Kuklin, *Morphological and thermal investigation of alginate membranes doped with magnetic nanoparticles*, 13th Central European Training School on Neutron Techniques (CETS 2019), 05-10 mai 2019 (Budapesta, Ungaria), pag. 33 din Book of Abstracts
 7. **Alexandru Pahomi**, Vlad Chiriac, Gabriela Vlase, Titus Vlase, Paul Albu, Gheorghe Ilia, *Preliminary studies on a novel method of synthesis for hydroxyapatite*, 28th Symposium on Thermal Analysis and Calorimetry – Eugen Segal – of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR28) & 2nd Symposium on Thermal Analysis and Calorimetry of Moldova (MoldTAC2), 09-10 mai 2019 (Timișoara, Romania), P 26, pag. 59 din Book of Abstracts
 8. **Alexandru Pahomi**, Vlad Chiriac, Gabriela Vlase, Titus Vlase, Paul Albu, Gheorghe Ilia, *Tri-component synthesis method and characterisation of hydroxyapatite*, 12th Edition of New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection, 06-07 iunie 2019 (Timișoara, Romania), P66, pag. 99 din Book of Abstracts
 9. **Alexandru Pahomi**, Vlad Chiriac, Gabriela Vlase, Titus Vlase, Paul Albu, Gheorghe Ilia, *Structural and thermic investigation on a novel method of synthesis for hydroxyapatite*, 13th Conference for Young Scientists in Ceramics, CYSC-2019 (Novi Sad, Serbia), 16-19 octombrie 2019, OA-107, pag. 129 din Book of Abstracts
 10. Alexandra Tășală, **Alexandru Pahomi**, *Synthesis and characterization of silver ion doped hydroxyapatite*, 31st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 octombrie 2022 (Reșița, Romania), P10 , pag. 35 din Book of Abstracts
 11. **Alexandru Pahomi**, Ionela- Amalia Bradu, Titus Vlase, Gabriela Vlase, Gheorghe Ilia, *The properties variation of hydroxyapatite dispersed into polymer matrix during thermal treatment*, 31st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 octombrie 2022 (Reșița, Romania), P11 , pag. 36 din Book of Abstracts
 12. Gabriela Vlase, Daniel Negru, Ionela- Amalia Bradu, Alexandra Tășală, **Alexandru Pahomi**, Dorinel Okolișan, Titus Vlase, Mihaela- Maria Budiul, Daniela Jumanca, Paula Sfirloagă, Anamaria Matichescu, *Composites with antibiotics, bisphosphonate*

- and hydroxyapatite for dental applications*, 31st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR31), 20-22 octombrie 2022 (Reșița, Romania), P13 , pag. 38 din Book of Abstracts,
13. Ivana Pantea, **Alexandru Pahomi**, Daniela Dascălu, *Preliminary Studies for the Determination of Niacin*, 6th Multidisciplinary Conference on Sustainable Development" Section: Food Chemistry, Engineering & Technology, 25-26 mai 2023 (Timișoara, România), P 18, pag. 37 din Book of Abstracts
 14. **Alexandru Pahomi**, Ionela- Amalia Bradu, Gabriela Vlase, Mihaela- Maria Budiul, Titus Vlase, Gheorghe Ilia, *Preliminary studies on local hemostatic desorption of carbazochrome loaded on chitosan/HA biocomposite*, 16th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023), 19-21 iulie 2023 (Porto, Portugalia), P.C11, pag. 92 din Book of Abstracts
 15. **Alexandru Pahomi**, Ionela- Amalia Bradu, Gabriela Vlase, Mihaela- Maria Budiul, Titus Vlase, Gheorghe Ilia, *Evolution of hydroxyapatite particle size by thermal treatment and polymer matrix diffusion*, 16th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2023), 19-21 iulie 2023 (Porto, Portugalia), P.E10, pag. 118 din Book of Abstracts
 16. **Alexandru Pahomi**, Gabriela Vlase, Mădălina Mateescu, Ionela- Amalia Bradu, Gheorghe Ilia, Titus Vlase, *Synthesis and characterization of some metals doped hydroxyapatite with different applications*, 7th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC7), 28-31 august 2023 (Brno, Republica Cehă), PS1.43, pag. 187 din Book of Abstracts
 17. Ivana Pantea, **Alexandru Pahomi**, Daniela Dascălu, *Determination of Water-Soluble Vitamins from Food Supplements*, INTERNATIONAL SCIENTIFIC SYMPOSIUM "Young Researchers and Scientific Research in Life Sciences" for Bachelor, Master and Ph.D. Students, 16-17 noiembrie 2023 (Timișoara, România), OC 16, pp.30-31 din Book of Abstracts
 18. **Alexandru Pahomi**, Mihaela Budiul, Gabriela Vlase, Ionela-Amalia Bradu, Alexandra Tășală, Titus Vlase, *Evaluation of interactions between polymer-gelatin hydrogels and propyphenazone*, 33rd Symposium "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR33), 17-28 octombrie 2024 (Timișoara, Romania), P7 , pag. 38 din Book of Abstracts
 19. **Alexandru Pahomi**, Ionela Amalia Bradu, Gabriela Vlase, Mihaela Budiul, Mădălin Bunoiu, Titus Vlase, *The influence of the polymer matrix on the size of the hydroxyapatite particles*, Seventh Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2024, 17-20 September 2024, Brasov, Romania
 20. **Alexandru Pahomi**, Ionela-Amalia Bradu, Gabriela Vlase, Mădălin Bunoiu, Mihaela Budiul, Vlase Titus *Synthesis and characterization of some metals doped hydroxyapatite with different applications*, Seventh Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2024, 17-20 September 2024, Brasov, Romania
 21. **Alexandru Pahomi**, Ionela Amalia Bradu, Mădălin Bunoiu, Gabriela Vlase, Titus Vlase, *Desorption profile of local hemostatic carbazochrome loaded on chitosan-HA scaffolds*, Seventh Edition of International Conference on Analytical and

Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2024, 17-20 September 2024, Brasov, Romania

22. Budiul Mihaela Maria, Vlase Gabriela, Bradu Ionela–Amalia, Grădinaru Mădălina, **Pahomi Alexandru**, Vlase Titus, Preformulation Studies Regarding Membranes Containing Active Pharmaceutical Ingredients with Analgesic and Antipyretic Activity, Seventh Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2024, 17-20 September 2024, Brasov, Romania
23. Ionela-Amalia Bradu, Mihaela Budiul, Gabriela Vlase, Mădălina Grădinaru, **Alexandru Pahomi**, Titus Vlase, *Study of polymer-based jellies for antipyretic and analgesic drug*, 33rd Symposium "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR33), 17-28 octombrie 2024 (Timișoara, Romania), P8 , pag. 39 din Book of Abstracts
24. Beatrice Vlad-Oros, Daniela Dascălu, Iarina Ion, **Alexandru Pahomi**, Ionela-Amalia Bradu, Gabriela Vlase, Titus Vlase, *Immobilization of enzymes on chitosan hydrogels – synthesis, properties and applications*, 33rd Symposium "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR33), 17-28 octombrie 2024 (Timișoara, Romania), P17 , pag. 48 din Book of Abstracts
25. Alexandra Tășală, Titus Vlase, Gabriela Vlase, Ionela-Amalia Bradu, **Alexandru Pahomi**, Silvia Trion, Luisa Palade, Matei-Ilie Bujanca, *Thermal and hyphenated technics in the study of pigments used in paintings*, 33rd Symposium "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR33), 17-28 octombrie 2024 (Timișoara, Romania), P21 , pag. 52 din Book of Abstracts
26. Beatrice Vlad-Oros, Denisa Pădurean, **Alexandru Pahomi**, Alexandra Tășală, Gabriela Vlase, Titus Vlase, *Soil phosphate analysis of archaeological soil from arad county*, 33rd Symposium "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy (CATCAR33), 17-28 octombrie 2024 (Timișoara, Romania), P23 , pag. 54 din Book of Abstracts

PARTICIPAREA LA SESIUNII DE INSTRUIRE

1. Participarea la „The 13th Central European Training School on Neutron Techniques ”, la Budapest Neutron Centre, în perioada 05- 10 mai 2019, Budapesta (Ungaria)
2. Participarea la „Porto Summer School MEDICTA 2023”, la Facultatea de Științe din cadrul Universității din Porto, în data de 18 iulie 2023, Porto (Portugalia)

STAGII DE PRACTICĂ

- Erasmus⁺ Mobilități de Plasament la KTH Royal Institute of Technology, Coating Department, sub supravegherea domnului Profesor Mats Johansson, în perioada 05.07-04.09.2021, Stockholm (Suedia)

BURSE DE CERCETARE

- Bursă de cercetare în cadrul proiectului Cercetarea excelenței în UVT prin sprijinirea și dezvoltarea centrelor de cercetare ale universității (FDI-2018-0389)

DISTINCȚII

- Distincția „Student Eminent” în cadrul Galei Excelenței organizată de către Asociația Orizonturi Universitare și Primăria Orașului Timișoara, decembrie 2018, Timișoara (România)
- Medalia de argint la „The VIIth International Fair of Innovation and Creative Education for Youth (ICE-USV) pentru proiectul intitulat „Preliminary study regarding physiological behaviour of *Plantago major* in urban habitat using different methods. Case study: Timișoara”, 7-9 iulie 2023, Suceava (România)

Candidat,
Pahomi Alexadru

