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Gradul didactic: Conferențiar

Instituția unde este titular: Universitatea Națională de Știință și Tehnologie Politehnica București

Facultatea: Inginerie chimică și Biotehnologii

Departamentul: Bioresurse și Știința polimerilor

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

A1 – ”Pigmenți luminofori”, cond. Științific prof. dr. ing. Corneliu Tărăbășanu Mihăilă, 2000, Inginerie Chimică

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. D.-I. Buliga, A. Mocanu, E. Rusen, A. Diacon, G. Toader, O. Brincoveanu, I. Călinescu, **A. C. Boscornea**, Phycocyanin-Loaded Alginate-Based Hydrogel Synthesis and Characterization, Marine Drugs, 2024, Volume 22, Issue 10 Article number 434. ([WOS:001342463500001](#))

2. A.-M. Drăghici-Popa, D.-I. Buliga, I. Popa, S.T. Tomas, R. Stan, **A. C. Boscornea**, , Cosmetic Products with Potential Photoprotective Effects Based on Natural Compounds Extracted from Waste of the Winemaking Industry, Molecules, 2024,29(12), Article number 2775. ([WOS:001255844200001](#))

3. D.Manaila-Maximean, M. Ilis, P.C.Ganea, M. Micutz, **C. Boscornea**, V. Cîrcu, Dielectric characterization of polymer dispersed liquid crystal film with chitosan biopolymer, Journal of Molecular Liquids, 2024, 393, 123552, ([WOS:001165467100001](#))

4. A.-M. Drăghici-Popa; **A.C Boscornea**; A.-M Brezoiu; Ș.T Tomas; O.C Pârvulescu, R; Stan, Effects of Extraction Process Factors on the Composition and Antioxidant Activity of Blackthorn (Prunus spinosa L.) Fruit Extracts. Antioxidants 2023, 12, 1897. ([WOS:001094895700001](#))

5. A.-M. Roșca, D.-I Buliga, **A.-C Boscornea**,., Optimisation of hypericin ultrasound assisted extraction: a mathematical model approach, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2023, Volume 85, Issue 4, Pages 45 – 56, ([WOS:001126670800023](#))

6. NF Cirstea,; A Badanoiu; G Voicu, RC Ciocoiu; **AC Boscornea**, Fire Behavior and Adhesion of Magnesium Phosphate Coatings for the Protection of Steel Structures, , Applied Sciences (Switzerland), 2022, , 12(24), Article Number12620, ([WOS:000900376400001](#))

7. NF Cirstea; A Badanoiu,; **AC Boscornea**, , Influence of intumescent inorganic polymer additions on the fire behavior of paints based on organic resins, 2022, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 84(4), Page33-44 ([WOS:000897670000003](#)).

8. DI Buliga,; I Popa,; Diacon, **AC. Boscornea**, Optimization of ultrasound-assisted extraction of chlorophyll using design of experiments and stability improvement via encapsulation, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 2022, 84(4), Page 59-72 (WOS:000897670000005).
9. DI Buliga; A Diacon; I Calinescu; I Popa; E Rusen,; A. Ghebur, O Tutunaru,; **CA. Boscornea**, "Enhancing the light fastness of natural dyes by encapsulation in silica matrix", Journal of photochemistry and photobiology A-Chemistry, 2022, Volume 432, Article Number114085 (WOS:000826687700003)
10. E;Rusen, A;Diacon, RA Mitran,; A. Dinescu; C Nistor; R. Somoghi; **AC. Boscornea**; D. Manaila-Maximean, , "E7 nematic liquid crystal encapsulated in a polymeric photonic crystal", EUROPEAN POLYMER JOURNAL, 2022, Volume175, Article Number111374(WOS:000818446300001).
11. NF Cirstea,; A Badanoiu; **AC Boscornea**, "Intumescent Silicate Coatings with the Addition of Alkali-Activated Materials", POLYMERS, 2022, Volume14, Issue10, Article Number1937 (WOS:000802596100001)
12. S. Bucur, A. Diacon, I. Mangalagiu, A. Mocanu, F. Rizea, A. Dinescu, A. Ghebur, **A.C. Boscornea** G. Voicu, E. Rusen "Bisphenol a adsorption on silica particles modified with beta-cyclodextrins", Nanomaterials 2022, Volume 12, Issue 1Article number 39. (WOS:000751128700001).
13. A. Diacon; I. Călinescu, M. Vinatoru, P. Chipurici, A. Vlaicu, **A.C. Boscornea**, T.J. Mason, "Fatty Acid Ethyl Esters (FAEE): A New, Green and Renewable Solvent for the Extraction of Carotenoids from Tomato Waste Products" Molecules, 2021, 26, 4388:4397(WOS:000676454700001)
14. S. Bucur, I. Mangalagiu, A. Diacon, A. Mocanu, F. Rizea, R. Somoghi, A. Ghebur, **A.C. Boscornea**, E. Rusen, "Novel Chemical Architectures Based on Beta-Cyclodextrin Derivatives Covalently Attached on Polymer Spheres". Polymers, 2021, 13, 2338:2353. (WOS:000677151400001)
15. I. Asofiei, A.C. Boscornea, D.I. Buliga, A. Diacon, S.T. Tomas, C.V. Pop, "Mixture design experiments applied for the formulation of a textile ink with reproduction of the NATO IRR green color used in military camouflage", Textile Research Journal, 2020, Article Number: 0040517520938152 (ISSN 0040-5175, Accession Number WOS:000546738300001)
16. A.Bărar, **C. Boscornea**, M. Bălăsoiu, D. Mănăilă-Maximean, , "Two-diode modelling of perovskite solar cells and parameter extraction using the Lambert function" UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, 2021, 83(4), pp. 285-294 (WOS:000731398600026).
17. E.-M Ungureanu, , M.-L.Tatu, E. Georgescu, , **C. Boscornea**, , M.-M. Popa, , G.Stanciu, "Influence of the chemical structure and solvent polarity on the fluorescence of 3-aryl-7-benzoyl-pyrrolo [1,2-c]pyrimidines", Dyes and Pigments, 2020, Volume 174, March, Article number 108023(ISSN 0143-7208, Accession Number WOS:000509632600020)
18. A.I. Nicoara, N. Cirstea, **C. Boscornea**, A. Badanoiu, "Coatings with intumescent filler based on alkali activated glass", 2019, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 81(3), pp. 19-28 (ISSN: 1454-2331, Accession Number WOS:000487215400003).
19. A. Barar, D. Manaila-Maximean, **C. Boscornea**,; M. Vladescu, P. Schiopu, "Thermal behavior of the electrical parameters for a novel zinc derivative-based dye-sensitized solar cell", Proceedings of SPIE, Volume: 10977, Advanced topics in optoelectronics, microelectronics, and nanotechnologies IX, Article Number: UNSP 109770Q (ISBN:978-1-5106-2614-0, ISSN: 0277-786X, eISSN: 1996-756X, Accession Number WOS:000458717900025).
20. M.-L. Tatu, E. Georgescu, **C. Boscornea**, M.-M. Popa, E.-M. Ungureanu, „Synthesis and fluorescence of new 3-biphenylpyrrolo[1,2-c]pyrimidines’, Arabian Journal of Chemistry, 2017, 10(5), pp. 643-652.(WOS:000403777700007).

21. R. Georgescu, **C. Boscornea**, I. Calinescu, R. State, “Raman, IR and UV-Vis spectroscopic investigations of some substituted phthalocyanines”, *Revista de Chimie*, 2015, 66(10), pp. 1554-1557(WOS:000368436300003).
22. T. Kodom, E. Rusen, I. Călinescu, A. Mocanu, R. Șomoghi, A. Dinescu, A. Diacon, **C. Boscornea**, “*Silver Nanoparticles Influence on Photocatalytic Activity of Hybrid Materials Based on TiO₂ P25*”, *Journal of Nanomaterials*, 2015, Volume 2015, Article number 210734(WOS:000360741600001).
23. R. Georgescu, J.F Van Staden, R.-I Stefan-Van Staden, **C. Boscornea**, “*Evaluation of amperometric dot microsensors for the analysis of folic acid in pharmaceutical tablets and urine samples*”, *Journal of Porphyrins and Phthalocyanines*, 2015, 19(5), pp. 679-687(WOS:000355750500004).
24. M.-L Tatu, E. Georgescu, **C. Boscornea**, M.-M Popa, E.-M Ungureanu, “*Synthesis and fluorescence of 1-[7-(4-nitrobenzoyl)-3-(biphenyl-4-yl)pyrrolo[1,2-c]pyrimidin-5-yl]Ethanone*”, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 2015, 77(3), 2015, pp. 49-58.
25. R. Georgescu, **C. Boscornea**, C. Pop, , S. Tomas, , I. Călinescu, “*New phthalocyanine compound potentially used as photosensitizer dye in Gratzel-type solar cells*”, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, 2015, 77 (1), pp. 107-118.

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

1.

- Selecție cu maximum 20 lucrări în volume de conferințe

- 1 D.-I. Buliga, I. Popa, A. Diacon, **C. A. Boscornea**, *Optimization of a green method for extracting bioactive compounds from plant materials and techniques for stabilization improvement. RICCE 2024*, Constanța, România
2. I. Popa, A.-M. Drăghici-Popa, A. I. Gavrilă, D.-I. Buliga, **C. A. Boscornea**, *A promising solvent, fatty acid ethyl esters, for ultrasound-assisted extraction of liposoluble bioactive compounds RICCE 2024*, Constanța, România.
3. D.-I. Buliga, A. Mocanu, E. Rusen, A. Diacon, G. Toader, O. Brincoveanu, I. Calinescu, **A. C. Boscornea**, *Phycocyanin loaded alginate-based hydrogels with potential medical applications. SICHEM 2024*, București, România
4. D.-I. Buliga, M. Raduly, V. Rădițoiu, **C. A. Boscornea**, *Optical and tinctorial properties of some natural dyes embedded in hybrid silica coatings. PRIOCHEM XIX-2023* București, România
5. A.-M. Draghici-Popa, D.-I. Buliga, I. Popa, S. Tomas, **A. C. Boscornea**, *Photoprotective cosmetic products with polyphenolic extract from grape marc. PRIOCHEM XIX-2023*, București, România
6. D.-I. Buliga, I. Popa, **C.A. Boscornea**, A.M. Draghici-Popa, *Recovery of Natural Pigments with Potential Applications in Cosmetics and Food through Conventional and Unconventional Methods (BBB PP-47)*, Book of Abstracts, 82 **PRIOCHEM XVIII** București România 2022
7. D.-I. Buliga, **A. C. Boscornea**, I. Popa, A.-M. Draghici-Popa, Ioan Calinescu, *Phycocyanin – a possible solution for natural blue pigments. NeXT-Chem 2021*, București, România

8. S. T. Tomas, A.-M. Draghici-Popa, I. Popa, D.-I. Buliga, **A. C. Boscornea**, *Bioactive compounds extraction from blackthorn fruits*. **AdFoodChem 2021**, București, România

9. D.-I. Buliga, **A. C. Boscornea**, I. Calinescu, A. Diacon, I. Popa, *Optimization of ultrasound-assisted extraction of chlorophylls from spinach by-products using response surface methodology and stabilization of the extracted pigments by encapsulation*. **Chemistry World Conference 2021**, Roma, Italia

10. D.-I., Buliga; A. Diacon; I. Asofiei; **A. C. Boscornea** Stabilization of Photosensitive Curcumin by Microencapsulation, Multidisciplinary Digital Publishing Institute Proceedings, 1, 96, 2020-10-30

11. D.I. Buliga, **A. C. Boscornea**, I. Asofiei, S. Tomas, C. Pop ”*Coloured materials with controlled absorption and emission for military camouflage*”, 21st Romanian International Conference on Chemistry and Chemical Engineering Constanta- Mamaia, ROMANIA - September 4 – 7, 2019

13. I. Asofiei, **A. C. Boscornea**, D.I. Buliga, S. Tomas, C. Pop, ”*Self-cleaning waterborne paints based on TiO₂ sensitized with mixed chromophore dyes*”, 21st Romanian International Conference on Chemistry and Chemical Engineering Constanta- Mamaia, ROMANIA - September 4 – 7, 2019

14. D. I. Buliga, **A. C. Boscornea**, *Photocatalytic activity of TiO₂ sensitized with azomethin – phthalocyanine metal complexes*, PRIOCHEM XIV, Bucuresti, 2018

15. **C. Boscornea**, I. Maior, A. Cojocar, A.M. Brezoiu, A. Ivanciu, A. Lascu, *Epoxy anticorrosive systems based on metal phthalocyanines*, International Symposium of Chemical Engineering and Materials-SICHEM, Bucuresti, 2018.

E. Brevete obținute în întreaga activitate

1.

Data:
25.06.2025

Semnătura: