

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.Draghici-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; Ş.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. Roşca, 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. Ghebaur, 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. Ghebaur, **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. Vinotoru, 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. Ghebaur, **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, Accesion Number [WOS:000546738300001](#))
- 16.** A.Bărăr, **C. Boscornea**, M. Bălășoiu, D. Mănilă-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, Accesion 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, Accesion 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, Accesion 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. Somoghi, A. Dinescu, A. Diacon, **C. Boscornea**, "Silver Nanoparticles Influence on Photocatalytic Activity of Hybrid Materials Based on TiO₂P25", 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.

- 26.** A. Diacon, E.Rusen, , **C.Boscornea**, A.M.Pandele, C. Cincu, "New phthalocyanine-fullerene dyads for solar cells", UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 73 (3), **2011**, pp. 87-98.
- 27.** **C. A. Boscornea**, Adelina David, Livia Ioan, M. Teodorescu, "Effect of Additives upon the Phase Transition Temperature of alpha, omega-(2-Hydroxyethoxy) Oligo(propylene oxide) in Aqueous Solutions", Materiale Plastice 50 (3), **2013**, 163-166.([WOS:000324783500003](#))
- 28.** A. Barbatu, A. Raditoiu, **C. A. Boscornea**, , C.Pop, S.Tomas, "Reactive azomethine dyes", Revista de Chimie, 64 (3) , **2013**, pp. 268-270.
- 29.** B. Cursaru, M. Teodorescu, **C. Boscornea**, P.O. Stanescu, S. Stoleriu, "Drug absorption and release properties of crosslinked hydrogels based on diepoxy-terminated poly(ethylene glycol)s and aliphatic polyamines - a study on the effect of the gel molecular structure", Materials Science and Engineering C 33, **2013**, 1307–1314.
- 30.** A. Diacon, A. Mocanu, **C. Boscornea**, P. Hudhomme, "Monomer type emission of perylenediiimide derivatives doped polymer particles", Colloids and surfaces a-physicochemical and engineering aspects 407, **2012**, 9-15.
- 31.** P. Iancu, M.C.Stroescu, A.M. Joșceanu, T.D. Danciu, O.C. Pârvulescu, **C. Boscornea**, L. Alexa, «How does e-chemistry work?, Chemical Engineering Transactions, 29, 2012, 1075-1080
- 32.** A. Mocanu, B. Marculescu; R. Somoghi, F. Miculescu, **C. Boscornea**; I.C. Stancu, "Fluorescence enhancement for the complex PAMAM-BSA in the presence of photonic crystal heterostructures", Colloids and surfaces a-physicochemical and engineering aspects, 392(1), **2011**, 288-293.
- 33.** M. Pătrașcu, I. Călinescu, **C. Boscornea**, I. Lăcătușu, D. Martin, D. Ighigeanu, E. Vasile, M. Rădoi "Tracking method for the microwave-assisted synthesis of silver nanoparticles' Journal Of Optoelectronics and Advanced Materials 13(6), **2011**, p. 666 - 671(**FI=0.563**, ISSN 1454-4164, Accesion Number [WOS:000292859800036](#))
- 34.** I. Călinescu, M. Pătrașcu, A. I. Gavrilă, A.Trifan, **C. Boscornea**, „Synthesis and characterisation of silver nanoparticles in the presence of PVA and Tannic acid", UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 73(4), **2011**, 3-10.
- 35.** R. A. Mitran, **C. Boscornea**, Izabela Stancu, S. Tomas, "Some unusual spectral properties of 6-azauracil derivatives" UPB Scientific Bulletin, Series B: Chemistry and Materials Science 73 (1), **2011**, pp. 67-74.
- 36.** I. Sandu, A. Lungu, **C. Boscornea**, S. Tomas, C.Mihailciuc „Electrochemical study of two curcumin-like compounds on activated glassy carbon electrode", Rev. Roum. Chim. 55(6), **2010**, 299-305.
- 37.** A. Diacon, L. Fara, C. Cincu, M. R. Mitroi, C. Zaharia, Edina Rusen, **C. Boscornea**, C. Rosu, D. Comaneci "New materials for hybrid dye-sensitized solar cells", Optical Materials, Vol. 32, Issue 12, **2010**, p. 1583-1586.
- 38.** Andreea Lungu, Ileana Sandu, **C. Boscornea**, S. Tomas, C.Mihailciuc „Electrochemical study of curcumin and bisdemethoxycurcumin on activated glassy carbon electrode", Rev. Roum. Chim. 55(2), **2010**, 109-115.

- 39.** Ana -Maria Albu, Ionica Ionita, Maria Maganu, C. Boscornea, D. S. Vasilescu „*New Trends in Architecture of Azo-Polymer Materials with Applications in Optical Field. 2. Solvatochromic and Photochromic Investigation*” . Mol. Cryst. Liq. Cryst., Vol. 522: **2010**, pp. 127/[539]–137/[549].
- 40.** A. Diacon, E. Rusen, C. Boscornea, C. Zaharia, C. Cincu „*Hybrid dye sensitized solar cells*”, Journal of Optoelectronics and Advanced Materials, Vol. 12, No. 2, **2010**, p. 199 – 204.
- 41.** M. Robu, C.Tanase, C. Boscornea, S.Tomas, R Albulescu” *Curcumin derivatives with potential biological activity*”, Revista de Chimie 60 (1), **2009**, pp. 76-80.
- 42.** P.-R. Ionescu-Mocanu, , G.Hubca, C.Boscornea, , S.Tomas, , L.Işfan, , A.-N.Mocanu, ”*Colorants with mixt naphthoquinone-azomethine cromophore-synthesis, characterization and in vitro toxicity analysis*”, UPB Scientific Bulletin, Series B: Chemistry and Materials Science 71 (3), **2009**, pp. 91-104.
- 43.** Nicoleta Grigoriu, Gh. Hubcă, C. Boscornea, Doina Tărăbășanu Mihăilă, Monica Robu”*Studies on the template synthesis of some phthalocyanines on ferrites support and their characterization using Mössbauer spectroscopy*” UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol. 71(1), **2009**, p. 65-75.
- 44.** C. Boscornea, Nicoleta Grigoriu, Doina Tărăbășanu Mihăilă, Monica Robu “*Obținerea coloranților ftalocianinici prin metode solvotermale*” Revista de Chimie, 59(4), **2008**, pp. 371-375
- 45.** L. İşfan, Ş. Tomas, C. Pop, C. Boscornea, R. Mocanu-Ionescu, .”*Sinteza și caracterizarea unei serii de derivați de tetra-hidrazono ftalocianine de cupru condensate cu diverse aldehyde aromatice*”, Revista de Chimie 58 (10), **2007**, pp. 941-944.
- 46.** L. İşfan, Ş. Tomas, C. Pop, C. Boscornea, R. Mocanu-Ionescu, “*Sinteza unor baze Schiff-derivați ai tetra-aminoftalocianinei de cupru*” Revista de Chimie, 58 (7), **2007**,pp. 664-668.,
- 47.** D. Donescu, C. Radovici, Cristiana Bercu, M. Ghiurea, C. Boscornea “*Efectul templantilor asupra obținerii unor hibride bioxid de titan-ftalocianina*”, **Materiale Plastice**, 44(1), **2007**, 7-13.
- 48.** L. İşfan, , Ş. Tomas, C. Pop, C. Boscornea, R. Mocanu-Ionescu, “*Synthesis and characterization of an azomethine-phthalocyanine cromophore by cyclotetramerization of substituted phtalodinitrile with azomethinic remainder*” Revista de Chimie, 58 (8), **2007**, pp. 830-832.
- 49.** Elena Corina Popescu, Maria Iordan, C. Boscornea, Mihai Barbaros, ”*Structure and properties of carragenan*”Annals of Food Science and Technology, fascicle VIII, **2007**, pp. 27-32.
- 50.** V. Rădițoiu, L. Wagner, Alina Rădițoiu, Viorica Amăriuței, C. Boscornea “*Funcționalizarea fibrelor naturale cu noi agenți cu structură 1,3,5-s-triazinică în scopul compatibilizării acestora cu sisteme cromogene neionice*”, Revista de Chimie, 57(4), **2006**, pp. 424-429.
- 51.** Valentin Raditoiu, Luminita Wagner, Alina Raditoiu, C. Boscornea, C.Tarabasanu-Mihaila „*Noi pigmenți termosenzitivi cu structura benzimidazolon-azoica*”, Revista de Chimie, 56(8), pp. 795-800, **2005**.
- 52.** C. Boscornea, C. Tarabasanu Mihaila, St. Tomas, C. Daescu, “*Synthesis and characterisation of some indigo type polymers having magnet properties*” Revista de Chimie, 55(9), **2004**, 730-733.
- 53.** C. Tarabasanu Mihaila, C. Boscornea, Lavinia Hinescu, Stefan Tomas “*Intelligent materials for medical and ecological interest*”, Ovidius University Annals of Chemistry 15, 77-80, **2004**.

- 54.** I. Serban, M. Calinescu, A. Emaldi, C. Boscornea, N. Stanica "Synthesis and spectral characterisation of copper(II), nickel(II), cobalt(II) and chromium(III) complexes of cinnamoyl methane derivates as ligands", Rev. Roum. Chim 48 (5): **2003**, 381-386.
- 55. C. Boscornea**, St. Tomas, Corina Boscornea, C; Tarabasanu-Mihaila "Tetra-isoindole type organic semiconductors", Bull. Inst. Polit.Iasi, t. XLIX(LIII), f. 5, 117-123, **2003**.
- 56.** C. Tarabasanu Mihaila, Lavinia Hinescu, C. Boscornea, Carmen Moldovan, Mihai Hinescu "Metal Complex tetraisoindoles as a Sensor materials", South. Braz. J. Chem., Vol. 10, No. 11, **2002**, 79-82.
- 57.** C. Boscornea, F. Pasolea, Corina Boscornea, C. Tarabasanu-Mihaila, "Naturalizarea si modificarea culorii naturale a florilor.I. Coloranti nafto-furan-chinolin dionici", Revista de Chimie, 53(5), **2002**, 394-403.
- 58. C. Boscornea**, F. Pasolea, C. Tarabasanu-Mihaila, Corina Boscornea "Naturalizarea si modificarea culorii naturale a florilor. II. Naturalizarea si colorarea trandafirilor cu coloranți cu structură nafto-furan-chinolin dionică", Revista de Chimie, 53(8), **2002**, 595-598.
- 59. C.Boscornea**, St.Tomas, L.G.Hinescu, C.Tarabasanu-Mihaila "Semiconducting Polymers Based on Tetraisoindole", Journal of Materials Processing Tech., Vol 119/1-3, **2001**, pp 344-347.
- 60. C. Boscornea**, St. Tomas, S. Juma, C.Tarabasanu "Componente de cuplare cu structura indigoida si coloranti azoici derivati", Revista de Chimie, 50 (1), **1999**, 13-18.
- 61. C. Boscornea**, St. Tomas, S. Juma, C.Tarabasanu " Sisteme heterociclice compact condensate.I. Coloranti cu cromofor mixt indigoid azoic", Revista de Chimie, 49 (8), **1998**, 529-534.