

Curriculum Vitae

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Date of birth:

Nationality: Hungarian

Citizenship: Romanian

EDUCATION

- 2002 – 2008: PhD Degree in Medical Sciences, domain of Pharmacy (with Summa cum Laude), “Iuliu Hatieganu” University of Medicine & Pharmacy, Cluj-Napoca, Romania
- 2001 – 2004: 2nd Specialization in Pharmaceutical Laboratory, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Cluj-Napoca, Romania
- 2002 – 2004: M.Sc. degree in Drug Analysis, “Iuliu Hatieganu” University of Medicine & Pharmacy, Cluj-Napoca, Romania
- 2001 – 2004: 1st Specialization in Pharmacy, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Cluj-Napoca, Romania
- 1996 – 2001: B.S. Pharmacy (first out of 88 graduates), Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Cluj-Napoca, Romania
- 1992-1996: GCE Advanced level in Chemistry and Biology, “Brassai Sámuel” Theoretical Highschool of Cluj-Napoca

PROFESSIONAL POSITIONS

- 2021 – present: Habilitated (full) professor, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Analytical Chemistry Department, Cluj-Napoca, Romania
- 2017 – 2021: Professor, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Analytical Chemistry Department, Cluj-Napoca, Romania
- 2012 – 2017: Associate Professor, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Analytical Chemistry Department, Cluj-Napoca, Romania
- 2007 – 2012: Assistant Professor, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Analytical Chemistry Department, Cluj-Napoca, Romania
- 2004 – 2007: Teaching Assistant, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Analytical Chemistry Department, Cluj-Napoca, Romania
- 2002 – 2004: Junior Teaching Assistant, Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine & Pharmacy, Analytical Chemistry Department, Cluj-Napoca, Romania
- 2001 – 2002: Pharmacist, Glaxo SmithKline-Europharm Pharmacy

COURSES TAUGHT

- 2002 – 2008: laboratory practice of Qualitative Analytical Chemistry, Quantitative Analytical Chemistry and Instrumental Analytical Chemistry for 1st and 2nd year Pharmacy students, both for Romanian and French section within the Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine and Pharmacy Cluj-Napoca
- 2008 – present: courses of Quantitative Analytical Chemistry and Instrumental Analytical Chemistry for 2nd year Pharmacy students, Romanian section within the Faculty of Pharmacy, “Iuliu Hatieganu” University of Medicine and Pharmacy Cluj-Napoca
- 2009 – 2010: laboratory practice and courses of General and Analytical Chemistry for 2nd year students of Technical college of Clinical Laboratory, Faculty of Medicine, “Iuliu Hatieganu” University of Medicine and Pharmacy Cluj-Napoca
- 2013 – present: laboratory practice and courses of Qualitative Analytical Chemistry, Quantitative Analytical Chemistry and Instrumental Analytical Chemistry for 1st and 2nd year Pharmacy students, English

section within the Faculty of Pharmacy, "Iuliu Hațieganu" University of Medicine and Pharmacy Cluj-Napoca

2010 – present: Theoretical and practical aspects of capillary electrophoretic techniques – course and laboratory practice as part of MSc. in Advanced Pharmaceutical Science, "Iuliu Hațieganu" University of Medicine and Pharmacy Cluj-Napoca

2013-present: Introduction in applied Analytical Chemistry, Junior Summer School for High School students, organized by the Pharmacy Student Organization

SCIENTOMETRICS: H-index: 21 (WoS), Citations: >1100

LIST OF PEER-REVIEWED PUBLICATIONS:

Book chapters:

- R. Săndulescu, C. Cristea, V. Hârceagă, E. Bodoki, 2011. Environmental Biosensors. Chapter 13: Electrochemical Sensors for Pharmaceutical and Environmental Analysis, Editor: V. Somerset, Intech, ISBN 978-953-307-486-3
- B.-C. Iacob, E. Bodoki, R. Oprean, 2016. Chiral electrochemical sensors based on molecularly imprinted polymers with pharmaceutical applications, in Handbook of Sustainable Polymers: Processing and Applications, Editors: V.K. Thakur, M.K. Thakur, Pan Stanford, ISBN 9789814613538
- R. Săndulescu, M. Tertîș, C. Cristea, E. Bodoki, 2015. Chapter 1: New Materials for the Construction of Electrochemical Biosensors, in Nanotechnology and Nanomaterials, "Biosensors - Micro and Nanoscale Applications", Editor: Toonika Rincken, Intech, ISBN 978-953-51-2173-2
- B. Kiss, E. Bodoki, A. Pop, F. Loghin, 2016. Chapter 48: Assays for Flunitrazepam, in The Neuropathology Of Drug Addictions And Substance Misuse, vol. 2, Editor: V.R. Preedy, Academic Press, ISBN 978-0-12-800212-4
- R. Săndulescu, C. Cristea, E. Bodoki, R. Oprean, 2016. Chapter 3: Recent Advances in the Analysis of Bioactive Compounds based on Molecular Recognition, in Frontiers in Bioactive Compounds, vol.1, Natural sources, physicochemical characterization and applications, Editor: C. Apetrei, Bentham Science Publisher, ISBN 978-1-68108-342-1.
- B.-C. Iacob, A. E. Bodoki, L. Oprean, E. Bodoki, 2018. Chapter 1: Metal – Ligand interactions in molecular imprinting, in Ligand, Editor: S. Chandreleka, Bhaskar Biswas, Intech, ISBN 978-953-51-5665-9.
- B.-C. Iacob, A. E. Bodoki, B. Feier, E. Bodoki, R. Oprean, 2019. Chapter 22. Polimeri imprimați molecular - sisteme avansate de transport ale substanțelor active, in Medicamentele secolului XXI și terapii moderne, Editor: Ovidiu Oniga, Editura Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca, ISBN: 978-973-693-896-2
- E. Bodoki, C. Cristea, A. Cernat, A. Florea, B. Feier, O. Hosu, B. Iacob, R. Oprean, M. Tertîș, R. Săndulescu, 2020. Biomarkeri tumorali - metode de detecție și sisteme avansate de transport la țintă bazate pe elemente biomimetice, in Progrese în terapia, cercetarea și managementul cancerului, Editor: Ovidiu Oniga, Editura Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca, ISBN: 978-973-693-959-4
- C. Cristea, M. Tertîș, O. Hosu-Stăncioiu, B. Feier, B. Cezar Iacob, I. Gug, E. Bodoki, R. Oprean, R. Săndulescu, Dispozitive analitice moderne pentru diagnosticul și tratamentul afecțiunilor cutanate în Terapia unor afecțiuni cutanate din perspective farmaceutice și medicale, Editor: Ovidiu Oniga, Editura Medicală Universitară "Iuliu Hațieganu" Cluj-Napoca, ISBN: 978-606-075-062-8

Refereed journal articles and proceedings:

- GOLD VS. SILVER COLLOIDAL NANOPARTICLE FILMS FOR OPTIMIZED SERS DETECTION OF PROPRANOLOL AND ELECTROCHEMICAL-SERS ANALYSES, Cristina M. Muntean, Denisa Cuibus, Sanda Boca, Alexandra Falamas, Nicoleta Tosa, Ioana Andreea Brezestean, Attila Bende, Lucian Barbu-Tudoran, Rebeca Moldovan, Ede Bodoki, Cosmin Farcau, *Biosensors* 2023, 13, 530 (IF 5.743)
- TOWARD MICROFLUIDIC SERS AND EC-SERS APPLICATIONS VIA TUNABLE GOLD FILMS OVER NANOSPHERES, Alexandra Falamas, Denisa Cuibus, Nicoleta Tosa, Ioana Brezestean, Cristina M. Muntean, Karolina Milenko, Elizaveta Vereshchagina, Rebeca Moldovan, Ede Bodoki, Cosmin Farcau, *Discover Nano*, 2023, 18 (1), 73
- TOPICAL TREATMENT FOR RETINAL DEGENERATIVE PATHOLOGIES: A SYSTEMATIC REVIEW, Lăcrămioara Samoilă, Oliviu Voștinaru, Elena Dinte, Andreea Elena Bodoki, Bogdan-Cezar Iacob, Ede Bodoki, Ovidiu Samoilă, *International Journal of Molecular Sciences*, 2023, 24(9), 8045 (IF 6.208)

- RUXOLITINIB-LOADED IMPRINTED POLYMERIC DRUG RESERVOIR FOR THE LOCAL MANAGEMENT OF POST-SURGICAL RESIDUAL GLIOBLASTOMA CELLS, A.-I. Bărăian, B.-C. Iacob, O. Sorițău, I. Tomuță, L.R. Tefas, L. Barbu-Tudoran, S. Șuşman, E. Bodoki, *Polymers*, 2023, 15(4):965 (IF 4.967)
- ANALYTICAL PERSPECTIVES IN THE STUDY OF POLYVALENT INTERACTIONS OF FREE AND SURFACE-BOUND OLIGONUCLEOTIDES AND THEIR IMPLICATIONS IN AFFINITY BIOSENSING, L.-E. Gliga, B.-C. Iacob, S.-N. Moldovean, D.A. Spivak, A. E. Bodoki, E. Bodoki, R. Oprean, *International Journal of Molecular Sciences*, 2023, 24(1), 175 (IF 6.208)
- EC-SERS DETECTION OF THIABENDAZOLE IN APPLE JUICE USING ACTIVATED SCREEN-PRINTED ELECTRODES, R. Moldovan, K. Milenko, E. Vereshchagina, B.-C. Iacob, K. Schneider, C. Farcău, E. Bodoki, *Food Chemistry*, 2023, 405, 134713 (IF 9.231)
- IN VIVO APPLICATIONS OF MOLECULARLY IMPRINTED POLYMERS FOR DRUG DELIVERY: A PHARMACEUTICAL PERSPECTIVE, A.I. Baraian, B.-C. Iacob, A.E. Bodoki, E. Bodoki, *International Journal of Molecular Sciences*, 2022, 23(22), 14071 (IF 6.208)
- REVIEW ON COMBINING SURFACE-ENHANCED RAMAN SPECTROSCOPY AND ELECTROCHEMISTRY FOR ANALYTICAL APPLICATIONS, R. Moldovan, E. Vereshchagina, K. Milenko, B.-C. Iacob, A. E. Bodoki, A. Falamas, N. Tosa, C. M. Muntean, C. Farcău, E. Bodoki, *Analytica Chimica Acta*, 2022, 1209, 339250 (IF 6.911)
- ZEIN AND LIGNIN-BASED NANOPARTICLES AS SOYBEAN SEED TREATMENT: TRANSLOCATION AND IMPACT ON SEED AND PLANT HEALTH, T. Kacsó, E. A. Hanna, F. Salinas, C. E. Astete, E. Bodoki, R. Oprean, P. P. Price, V. P. Doyle, C. A. R. Bonser, J. A. Davis, C. M. Sabliov, *Applied Nanoscience*, 2022, 12(4) 1557–1569, (IF 3.869)
- OFF-RESONANCE GOLD NANOBONE FILMS AT LIQUID INTERFACE FOR SERS APPLICATIONS, R. Moldovan, V. Toma, B.-C. Iacob, R.I. Stiuțuc, E. Bodoki, *Sensors*, 2021, 22(1):236 (IF 3.847)
- PERSPECTIVES OF MOLECULARLY IMPRINTED POLYMER-BASED DRUG DELIVERY SYSTEMS IN OCULAR THERAPY, A.E. Bodoki, B.-C. Iacob, E. Dinte, O. Vostinaru, O. Samoila, E. Bodoki, *Polymers*, 2021, 13(21):3649 (IF 4.800)
- HIGH-ENERGY BALL MILLING AND SPARK PLASMA SINTERING OF MOLYBDENUM – LANTHANUM OXIDE (Mo-La₂O₃) AND MOLYBDENUM – LANTHANUM ZIRCONATE (MO-La₂Zr₂O₇) COMPOSITE POWDERS, L. Čelko, S. Tkachenko, M. Casas-Luna, L. Dyčková, V. Bednaříková, M. Remešová, P. Komarov, A. Deák, M. Baláž, D. Crawford, S. Diaz-de-la-Torre, E. Bodoki, J. Cihlář, *International Journal of Refractory Metals and Hard Materials*, 2021, 102(7):105717 (IF 4.804)
- CHIRAL ENHANCEMENT VIA SURFACE-CONFINED SUPRAMOLECULAR SELF-ASSEMBLY AT THE ELECTRIFIED LIQUID/SOLID INTERFACE, I.A. Stoian, B.-C. Iacob, J.P. Prates Ramalho, I.O. Marian, E. Bodoki, R. Oprean, *Electrochimica Acta*, 2021, 387(9):138464 (IF 6.901)
- STRATEGIES FOR SERS DETECTION OF ORGANOCHLORINE PESTICIDES, R. Moldovan, B.-C. Iacob, C. Farcău, E. Bodoki, R. Oprean, *Nanomaterials*, 2021, 11(2):304 (IF 5.719)
- SIMULATION OF THE OXIDATIVE METABOLIZATION PATTERN OF NETUPITANT, A NK1 RECEPTOR ANTAGONIST, BY ELECTROCHEMISTRY COUPLED TO MASS SPECTROMETRY, R. Chira, J. Fangmeyer, I. O. Neaga, V. Zaharia, U. Karst, E. Bodoki, R. Oprean, *Journal of Pharmaceutical Analysis*, 2021, 11(5) (IF 14.026)
- ELECTROCHEMICAL PLATFORM FOR THE DETECTION OF ADENOSINE USING A SANDWICH STRUCTURED MOLECULARLY IMPRINTED POLYMER-BASED SENSOR, L.-E. Gliga, B.-C. Iacob, B. Cheșceș, A. Florea, L. Barbu-Tudoran, E. Bodoki, R. Oprean, *Electrochimica Acta*, 2020, 354, 136656. (IF 6.215)
- ANALYTICAL TECHNIQUES FOR MULTIPLEX ANALYSIS OF PROTEIN BIOMARKERS, A. Van Gool, F. Corrales, M. Čolović, D. Krstić, B. Oliver-Martos, E. Martínez-Cáceres, I. Jakasa, G. Gajski, V. Brun, K. Kyriacou, I. Burzynska-Pedziwiatr, L. A. Wozniak, S. Nierkens, C. Pascual García, J. Katrlík, Z. Bojic-Trbojevic, J. Vacek, A. Llorente, F. Antohe, V. Suica, G. Suarez, R. t'Kindt, P. Martin, D. Penque, I. L. Martins, E. Bodoki, B.-C. Iacob, E. Aydınođan, S. Timur, J. Allinson, C. Sutton, T. Luiđer, S. Wittfooth, M. Sammar, *Expert Review of Proteomics*, 2020, 17(4), 257-273. (IF 3.614)
- ELECTROCHEMICALLY SIMULATED OXIDATIVE METABOLIZATION PATTERN OF NEUROKININ-1 ANTAGONIST APREPITANT, R. Chira, J. Fangmeyer, V. Zaharia, U. Karst E. Bodoki, R. Oprean, *Journal of the Electrochemical Society*, 2020, 167:085502. (IF 3.721)
- OPHTHALMIC NANOSYSTEMS WITH ANTIOXIDANTS FOR THE PREVENTION AND TREATMENT OF EYE DISEASES, E. Dinte, O. Vostinaru, O. Samoila, B. Sevastre, E. Bodoki, *Coatings*, 2020, 10(1), 36. (IF 2.436)

- BIOMIMETIC ELECTROCHEMICAL SENSOR FOR THE HIGHLY SELECTIVE DETECTION OF AZITHROMYCIN IN BIOLOGICAL SAMPLES, I.A. Stoian, B.-C. Iacob, C.-L. Dudas, L. Barbu-Tudoran, D. Bogdan, I.O. Marian, E. Bodoki, R. Oprean, *Biosensors & Bioelectronics*, 2020, 155:112098. (IF 10.257)
- PERSPECTIVES OF MOLECULARLY IMPRINTED POLYMER-BASED DRUG DELIVERY SYSTEMS IN CANCER THERAPY, A.E. Bodoki, B.-C. Iacob, E. Bodoki, *Polymers*, 2019, 11(12), 2085. (IF 3.426)
- BIOACTIVE ALIPHATIC POLYCARBONATES CARRYING GUANIDINIUM FUNCTIONS: AN INNOVATIVE APPROACH FOR MYOTONIC DYSTROPHY TYPE 1 THERAPY, A. Baroni, I. Neaga, N. Delbosc, M. Wells, L. Verdy, E. Ansseau, J.J. Vanden Eynde, A. Belayew, E. Bodoki, R. Oprean, S. Hambye, B. Blankert, *ACS Omega*, 2019, 4(19), 18126–18135. (IF 2.87)
- A CHIRAL ELECTROCHEMICAL SYSTEM BASED ON L-CYSTEINE MODIFIED GOLD NANOPARTICLES FOR PROPRANOLOL ENANTIODISCRIMINATION: ELECTROANALYSIS AND COMPUTATIONAL MODELLING, I.–A. Stoian, B.-C. Iacob, J.P. Prates Ramalho, I.O. Marian, V. Chiş, E. Bodoki, R. Oprean, *Electrochimica Acta*, 2019, 326, 134961. (IF 6.215)
- SELECTIVITY EVALUATION OF PHENYL BASED STATIONARY PHASES FOR THE ANALYSIS OF AMINO ACID DIASTEREOMERS BY LIQUID CHROMATOGRAPHY COUPLED WITH MASS SPECTROMETRY, R.-C. Moldovan, E. Bodoki, A.-C. Servais, J. Crommen, R. Oprean, M. Fillet, *Journal of Chromatography A*, 2019, 1590, 80-87 (IF 4.049)
- TOPICAL NANODELIVERY SYSTEM OF LUTEIN FOR THE PREVENTION OF SELENITE-INDUCED CATARACT, E. Bodoki, O. Vostinaru, O. Samoila, E. Dinte, A.E. Bodoki, S. Swetledge, C.E. Astete, C.M. Sabliov, *Nanomedicine: Nanotechnology, Biology and Medicine*, 2019, 15(1), 188-197. (IF 5.182)
- SECURIDACA–SAPONINS ARE NATURAL INHIBITORS OF AKT, MCL-1, AND BCL2L1 IN CERVICAL CANCER CELLS, T.O. Obasi, C. Braicu, B.C. Iacob, E. Bodoki, A. Jurj, L. Raduly, I. Berindan-Neagoe, R. Oprean, *Cancer Management and Research*, 2018, 10, 5709-5724 (IF 3.702)
- IMPROVED ENANTIOSELECTIVITY FOR ATENOLOL EMPLOYING PIVOT BASED MOLECULAR IMPRINTING, A.E. Bodoki, B.-C. Iacob, L.E.Gliga, S.L.Oprean, D.A.Spivak, N. Gariano, E. Bodoki, *Molecules*, 2018, 23(8), 1875 (IF 3.098)
- PERSPECTIVES IN THE DESIGN OF ZEIN-BASED POLYMERIC DELIVERY SYSTEMS WITH PROGRAMMED WEAR DOWN FOR SUSTAINABLE AGRICULTURAL APPLICATIONS, T. Kacso, I.O.Neaga, A. Erincz, C. Astete, C. Sabliov, R. Oprean, E. Bodoki, *Polymer Degradation and Stability*, 2018, 155, 130-135 (IF 3.193)
- CAPILLARY ELECTROPHORESIS-MASS SPECTROMETRY OF DERIVATIZED AMINO ACIDS FOR TARGETED NEUROMETABOLOMICS – PH MEDIATED REVERSAL OF DIASTEREOMER MIGRATION ORDER, R. Moldovan, E. Bodoki, A.-C. Servais, B. Chankvetadze, J. Crommen, R. Oprean, M. Fillet, *Journal of Chromatography A*, 2018, 1564, 199-206 (IF 3.716)
- AFFINITY CAPILLARY ELECTROPHORESIS FOR IDENTIFICATION OF ACTIVE DRUG CANDIDATES IN MYOTONIC DYSTROPHY TYPE 1, I.O. Neaga, S. Hambye, E. Bodoki, C. Palmieri, E. Ansseau, A. Belayew, R. Oprean, B. Blankert, *Analytical and Bioanalytical Chemistry*, 2018, 410(18), p1-13 (IF 3.307)
- ZEIN NANOPARTICLES UPTAKE BY HYDROPONICALLY GROWN SOYBEAN PLANTS, K. Ristroph, C.E. Astete, E. Bodoki, C.M Sabliov, *Environmental Science & Technology*, 2017, 51(24), 14065-14071 (IF 6.653)
- MOLECULAR-TRAPPING IN EMULSION'S MONOLAYER: A NEW STRATEGY FOR PRODUCTION AND PURIFICATION OF BIOACTIVE SAPONINS, T.C. Obasi, R. Moldovan, A. Toiu, C. Braicu, E. Bodoki, I. Berindan-Neagoe, I. Oniga, R. Sandulescu, R. Oprean, *Scientific Reports*, 2017, 7(14511), 1-9 (IF 4.122)
- CHARACTERIZATION OF ORTHOSIPHON STAMINEUS BENTH. EXTRACTS BY REVERSED-PHASE THIN LAYER CHROMATOGRAPHIC METHODS, N.-K. Olah, D. Hanganu, E. Bodoki, R. Oprean, C. Toma, C. Morgovan, E. Chişe, A. Braşovan, S.C.A. Cobzac, S. Gocan, *Studia UBB Chemia*, 2017, LXII, 3, 9-18 (IF 0.305)
- ZEIN NANOPARTICLES UPTAKE AND TRANSLOCATION IN HYDROPONICALLY GROWN SUGARCANE PLANTS, A. Prasad, C. Astete, A.E. Bodoki, McK. Windham, E. Bodoki, C.M. Sabliov, *Journal of Agricultural and Food Chemistry*, 2017, 66(26), 6544-6551. (IF 3.412)

- DETERMINATION OF ROSMARINIC ACID BY HPTLC-IMAGE ANALYSIS IN MEDICINAL TEAS AND THEIR BIOLOGICAL PROPERTIES, D. Benedec, I. Oniga, A. Kozma-Imre, D. Hanganu, V. Tarmure, E. Bodoki, *Farmacia*, 2017, 65(4), 605-609 (IF 1.507)
- NANOSTRUCTURED PLATFORM BASED ON GRAPHENE-POLYPYRROLE COMPOSITE FOR IMMUNOSENSOR FABRICATION, A. Cernat, M. Tertiş, C.N. Păpară, E. Bodoki, R. Săndulescu, *Procedia Technology*, 2017, 27, 108-109
- (+) OR (-)-1-(9-FLUORENYL)ETHYL CHLOROFORMATE AS CHIRAL DERIVATIZING AGENT: A REVIEW, R-C. Moldovan, E. Bodoki, A-C. Servais, J. Crommen, R. Oprean, M. Fillet, *Journal of Chromatography A*, 2017, 1513, 1-17 (IF 3.716)
- CLIMATIC CONDITIONS INFLUENCE EMERGING MYCOTOXIN PRESENCE IN WHEAT GROWN IN ROMANIA - A TWO YEAR SURVEY, O. Stanciu, C. Juan, D. Miere, A. Dumitrescu, E. Bodoki, F. Loghin, J. Mañes, *Crop Protection*, 2017 (100) 124-133 (IF 1.920)
- NANOSIZED AND NANOSTRUCTURED PLATFORMS FOR BIOSENSORS DESIGN, R. Săndulescu, M. Tertiş, A. Florea, L. Fritea, O. Hosu, B. Ciui, A. Cernat, B. Feier, A. Maghear, B. Iacob, E. Bodoki, C. Cristea, *5th Workshop: Specific methods for food safety and quality*, Ed. V. Vasic, 2016, 126-133, ISBN: 978-86-7306-133-7
- PREDICTING CHROMATOGRAPHIC BEHAVIOR OF SEVERAL CHIRAL B-BLOCKERS FROM MOLECULAR STRUCTURE BY QSPR ANALYSIS, Mona Maria Talmaciu, Ede Bodoki, James Platts, Radu Oprean, *Studia UBB Chemia*, 2016, (61)4, 99 – 112 (IF 0.244)
- A MICELLAR ELECTROKINETIC CHROMATOGRAPHY–MASS SPECTROMETRY APPROACH USING IN-CAPILLARY DIASTEREOMERIC DERIVATIZATION FOR FULLY AUTOMATIZED CHIRAL ANALYSIS OF AMINO ACIDS, Radu Moldovan, Ede Bodoki, Timea Kacsó, Anne-Catherine Servais, Jacques Crommen, Radu Oprean, Marianne Fillet, *Journal of Chromatography A*, 2016, 1467, 400-408 (IF 3.981)
- STUDY OF THE MOLECULAR RECOGNITION MECHANISM OF AN ULTRATHIN MIP FILM-BASED CHIRAL ELECTROCHEMICAL SENSOR, Bogdan-Cezar Iacob, Ede Bodoki, Cosmin Farcau, Lucian Barbu-Tudoran, Radu Oprean, *Electrochimica Acta*, 2016, 217, 195-202 (IF 4.803)
- ANALYSIS OF PERFUMES WITH SYNTHETIC HUMAN PHEROMONES BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY, Ioana Gavris, Ede Bodoki, Radu Oprean, *Farmacia*, 2016, 64(5), 793-796 (IF 1.348)
- GLOBAL CHEMICAL REACTIVITY PARAMETERS FOR SEVERAL CHIRAL BETA-BLOCKERS FROM DENSITY FUNCTIONAL THEORY VIEWPOINT, Mona Maria Talmaciu, Ede Bodoki, Radu Oprean, *Clujul Medical*, 2016, 89(4), 513-518
- APPLICATION OF CAPACITIVELY COUPLED CONTACTLESS CONDUCTIVITY AS AN EXTERNAL DETECTOR FOR ZONE ELECTROPHORESIS IN POLY(DIMETHYLSILOXANE) CHIPS, Péter. I. Koczka, Ede Bodoki, Attila Gáspár, *Electrophoresis*, 2016, 37(3), 398-405 (IF 3.028)
- STUDY OF NUCLEIC ACID-LIGAND INTERACTIONS BY CAPILLARY ELECTROPHORETIC TECHNIQUES: A REVIEW, Ioan O. Neaga, Ede Bodoki, Stephanie Hambye, Bertrand Blankert, Radu Oprean, *Talanta*, 2016, 148, 247-256 (IF 4.162)
- REMOVAL OF NITROANILINE FROM WATER/ETHANOL BY ELECTROCOAGULATION USING RESPONSE SURFACE METHODOLOGY, Guy Bertrand Tamne, Charles P. Nanseu-Njiki, Ede Bodoki, Robert Săndulescu, Radu Oprean, Emmanuel Ngameni, *Clean - Soil, Air, Water*, 2016, 44(4), 430-437 (IF 1.473)
- CHIRAL SEPARATION OF 16 BETA-BLOCKERS ON IMMOBILIZED POLYSACCHARIDE CHIRAL STATIONARY PHASES, Radu-Cristian Moldovan, Gabriel-Sorin Dascăl, Ede Bodoki, Valentin Mirel, Radu Oprean, *Farmacia*, 2015, 63(6), 909-912 (IF 1.162)
- ASSESSMENT OF PERFUME INGREDIENTS WITH APHRODISIAC POTENTIAL BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY, Ioana Gavriş, Ede Bodoki, Philippe Verite, Radu Oprean, *Farmacia*, 2015, 63(5), 760-764 (IF 1.162)
- MECHANISTIC STUDY OF COLCHICINE'S ELECTROCHEMICAL OXIDATION, Ede Bodoki, Ruxandra Chira, Valentin Zaharia, Robert Săndulescu, *Electrochimica Acta*, 2015, 178, 624-630 (IF 4.803)
- AB INITIO STUDY OF THE NA–COLCHICINE POSITIVELY CHARGED COMPLEX, Ede Bodoki, Diana Bogdan, Robert Săndulescu, *Farmacia*, 2015, 63(4) 539-542 (IF 1.162)
- MECHANISTIC STUDY OF COLCHICINE'S REDUCTION BEHAVIOR, Ede Bodoki, Laurian Vlase, Robert Săndulescu, *Electrochemistry Communications*, 2015, 56, 51-55 (IF 4.569)

- NANOSTRUCTURED PLATFORM BASED ON GRAPHENE-POLYPYRROLE COMPOSITE FOR IMMUNOSENSOR FABRICATION, Andreea Cernat, Mihaela Tertiş, Claudia Nicoleta Păpară, Ede Bodoki, Robert Săndulescu, *Int. J. Electrochem. Sci.*, 2015, 10, 4718 - 4731 (IF 1.692)
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PROFESSIONAL EXPERIENCE AND TRAINING

- Dec 2022 – July 2023 Leaders in Innovation Fellowship, LIF Global 2023 – training in scientific entrepreneurship by the Royal Academy of Engineering, London & Oxentia, Oxford, UK
- April 2015 Professional visit – Spectroelectrochemical study of MIP-based chiral sensor for b-blockers, dr. Evgenia Dmitrieva, IFW Dresden
- August 2013 International Summer School on Spectroelectrochemistry – Theoretical background and practical training in spectroelectrochemical techniques, prof.dr. Lothar Dunsch, IFW Dresden
- June 2011 Training course – Multivariate Data Analysis, Umetrics AB, Amsterdam
- June-July 2009 Professional visit covering the Chiral separations by capillary electrophoresis by NACE , Universite de Liège/Department of Drug Analysis, Liège – prof. Jacques Crommen
- February 2008 Training course – LC-MS Interpretation, Crawford Scientific, Manchester
- February 2008 Training course – LC-MS for the Chromatographer, Crawford Scientific, Manchester
- October 2007 Training course – Design of Experiments, Umetrics AB, Helsinki
- May 2006 Training course – Validation of analytical methods, University of Medicine and Pharmacy "Iuliu Hatieganu"/Drug Analysis Department
- April-June 2006 Professional visit - Technology of fabrication of disposable screen-printed electrodes used in pharmaceutical, clinical and environmental analysis, Universita degli Studi Firenze/ Faculty of Chemistry, Firenze – prof. Marco Mascini
- September-November 2005 Professional visit - Study of miniaturized analytical devices based on magnetic microparticles for the analysis of heavy metals, Universite Libre de Bruxelles, Faculty of Pharmacy, Laboratory of Bioelectrochemistry and Instrumental Analysis, Brussels – prof. Jean-Michel Kauffmann
- September 2004 Professional visit - Fabrication, optimization and application of biosensors in the analysis of bioactive compounds, Universite Libre de Bruxelles, Faculty of Pharmacy, Laboratory of Bioelectrochemistry and Instrumental Analysis, Brussels – prof. Jean-Michel Kauffmann
- April 2004 HPLC – a practical course, University of Medicine and Pharmacy "Iuliu Hatieganu"/Drug Analysis Department
- February-June 2001 Professional visit - Electrophoretic separation techniques and voltamperometric studies of pharmaceuticals, Universite Libre de Bruxelles, Faculty of Pharmacy, Laboratory of Bioelectrochemistry and Instrumental Analysis, Brussels – prof. Jean-Michel Kauffmann

RESEARCH GRANTS:

- 7 national research grants – project director
- 2 international research project – national coordinator
- 20 national and international research grants – member (member of Innovation and Exploitation committee of a Horizon 2020 research project - H2020-SU-SEC-2018, BorderSens: Border detection of illicit drugs and precursors by highly accurate electrochemical sensors, No 833787/05.04.2019).

He is a member of the Management Committee Board in two operational COST (European Cooperation in Science & Technology) networks focused on the clinical validation on protein biomarkers (CA16113 – CliniMARK, 2016-2020, www.clinimark.eu) and on the application of mechanochemistry in various domains of the industry (CA18112 – Mech@SustInd: Mechanochemistry for sustainable industry, 2019 – 2023, www.mechsustind.eu).

PATENTS:

1. Printed planar electrochemical sensor, no. RO125127/29.04.2011, Romanian State Office for Inventions and Trademarks
2. Process of synthesis of polypyrrole beads containing covalently immobilized enzymes no. RO128661/26.02.2016, Romanian State Office for Inventions and Trademarks
3. Delivery of bioactive, nanoencapsulated antioxidants, no. 10292943/21.05.2019, United States Patent and Trademark Office (international patent application File No. Sabliov 14A26W)
4. Fabrication of a drug delivery system for the controlled and sustained release of ruxolitinib in glioblastoma, in filing process (no. 17658/22.06.2022) to Romanian State Office for Inventions and Trademarks
5. Green synthesis of molecularly imprinted polymers, in filing process (no. 36547/22.12.2022) to Romanian State Office for Inventions and Trademarks
6. New forms of lutein and their uses, in filing process (no. 9137/31.03.2023) to Romanian State Office for Inventions and Trademarks and PCT application

HONORS, AWARDS, AND FELLOWSHIPS:

1. Leaders in Innovation – LIF 2023 graduate – Royal Academy of Engineering & Oxentia, UK (2023)
2. Teodor Goina Award – for the University's first international patent application - awarded by Iuliu Hatieganu University, Cluj-Napoca (2018)
3. Bronze Medal at the International Warsaw Invention Show 2018 (IWIS), October 15-17, 2018, Warsaw, Poland
4. Award of excellence and Gold medal at the XVth International Specialized Exhibition InfoInvent, 2017, Chisinau, Rep. of Moldova
5. Award of excellence and Gold medal at the XVth International Exhibition of Research, Innovation and Inventions ProInvent, 2017, Cluj-Napoca
6. Politechnica Innovation Award at the European Exhibition of Creativity and Innovation Euroinvent, 2017, Iași
7. Gold Medal at the International Fair of Inventions and Innovations “Traian Vuia”, 2017, Timisoara
8. Fulbright Scholar at Louisiana State University, USA (2016 – Romanian - U.S. Fulbright Commission)
9. Teodor Goina Award – awarded by Iuliu Hatieganu University, Cluj-Napoca (2016)
10. Bologna Professor Award – awarded by the National Alliance of Student Organizations of Romania (2015)
11. Teodor Goina Award – awarded by Iuliu Hatieganu University, Cluj-Napoca (2015)
12. Award of excellence and Gold medal at the IXth International Exhibition of Research, Innovation and Inventions ProInvent, 2011, Cluj-Napoca
13. Teodor Goina Award – awarded by Iuliu Hatieganu University, Cluj-Napoca for scientific achievements of the Analytical Chemistry Department (2010)
14. Young Scientist Award – awarded by the Romanian Electrochemical Society (2009)
15. Ioan Baci Award – awarded by Iuliu Hatieganu University of Medicine and Pharmacy Cluj-Napoca for the most valuable PhD thesis of years 2008-2009 (Summa cum Laude - Doctor in the field of Medical Sciences, Pharmacy)

SYNERGISTIC ACTIVITIES

Chair/member of scientific/organizing committee of conferences: 19th National Congress of Pharmacy, 2023, Cluj-Napoca, Romania. 27th International Symposium on Separation Sciences, 2023, Cluj-Napoca, Romania. 4th Central and Eastern European Conference on Health and Environment, Romania, 2014. Summer School on Electrochemistry for Environmental and Biomedical Applications, Romania, 2013. Journee d'Electrochimie, Romania, 2009. 13th National Congress of Pharmacy Romania, 2006. Clinical Skills Competition within the National Congress of Pharmacy Students, 2001.

- 2010 – present Member of the Advisory board of Journal of Planar Chromatography – Modern TLC (Springer, Editor-in-chief: Prof.dr. B. Spangenberg)
- 2018 – 2022 Member in the Management Committee of CA16113 – CliniMARK: Good biomarker practice to increase the number of clinically validated biomarkers, www.clinimark.eu
- 2019 - 2023 Member in the Management Committee of CA18112 – Mech@SustInd: Mechanochemistry for sustainable industry, www.mechsustind.eu
- 2012 – 2016 Member of Council of Faculty of Pharmacy, Iuliu Hatieganu University of Medicine & Pharmacy, Cluj-Napoca
- 2012 – present Member of Council of Pharmacy 1 Department, Faculty of Pharmacy, Iuliu Hatieganu University of Medicine & Pharmacy, Cluj-Napoca

PROFESSIONAL ASSOCIATIONS

Member of: Romanian Society of Pharmaceutical Sciences, Romanian Society of Chemistry – Romanian Separation Sciences, International Society of Electrochemistry, Romanian Society of Electrochemistry, International Society of Molecular Imprinting

LANGUAGE SKILLS

Languages: English – Fluent
French – Proficient
Romanian – Fluent
Hungarian – Native