

CURRICULUM VITAE

First name: LUCIAN-OCTAV

Surname: COPOLOVICI

Born: August 13, 1976, Turda, Romania

Marital status: Married (with Dr. Dana Copolovici – one child)

Citizenship: Romanian

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Education:

B.Sc. (June 1998) in Physical Chemistry, Faculty of Chemistry and Chemical Engineering, “Babes-Bolyai” University, Cluj-Napoca, Romania, (9.33 out of 10).

Title of the diploma thesis: “Li⁺ Intercalation in Graphite Anodes” (10 out of 10).

M.Sc. (June 1999) in Applied Electrochemistry, Faculty of Chemistry and Chemical Engineering, “Babes-Bolyai” University, Cluj-Napoca, Romania (10 out of 10).

Title of the Master thesis: “Kinetic Methods. Multicomponent Determination” (10 out of 10)

Ph.D. (1999 – 2003) in Chemistry “Babes-Bolyai” University, Cluj-Napoca, Romania,

Defended on 12.12.2003

Ph.D. thesis: “Kinetic Methods for Determination of Organic Compounds in Waters”.

Dr. Habilitate (2014) in Environmental Science

Defended on 20.02.2014

Hab. Thesis: “Volatile Organic Compounds Emission from Plants”

Experience:

2017-present Director, Institute of Technical and Natural Sciences Research Development of Aurel Vlaicu University, Arad, Romania

2014- present Ph. D. supervisor in Environmental Science at “Babes-Bolyai” University, Cluj-Napoca, Romania

2014- present Professor, Faculty of Food Engineering, Tourism and Environmental Protection,
Aurel Vlaicu University, Arad, Romania

2012-2014 Senior Researcher II, Institute of Technical and Natural Sciences Research Development
of Aurel Vlaicu University, Arad, Romania,

2011-2013 Senior Researcher, Department of Plant Physiology, Estonian University of Life
Science, Tartu, Estonia

2008-2011 Researcher, Department of Plant Physiology, Estonian University of Life Science, Tartu,
Estonia

2007- 2008 Exceptional researcher, Estonian University of Life Science, Tartu, Estonia

2006- 2007 Post-doctoral researcher at Department of Inorganic Chemistry, Faculty of Chemistry
and Chemical Engineering, “Babes-Bolyai” University, Cluj-Napoca, Romania.

2005-2006 Post-doctoral researcher at Ghent University, Department of Analytical Chemistry,
Institute of Nuclear Science, Ghent, Belgium.

2004-2005 Researcher in the Marie Curie Research and Training Network “ISONET”, Department
of Plant Physiology, Institute of Molecular and Cell Biology, Tartu, Estonia.

Course leader:

“Methods and analytical techniques used for measuring Biogenic Volatile Organic Compounds
(BVOC) emission from plants”- ATMOSPHERE-BIOSPHERE STUDIES (ABS) master studies

Advanced techniques for monitoring pollutants – Master level

Ecology and Environmental Protection – Bachelor level

Ecosystems Protection – Bachelor level

Hands-on experience

Spectrometry (UV/VIS, IR, diode array spectrophotometer), potentiometry, sensors, gas
chromatography (FID, MS), ionic chromatography, liquid chromatography, PTR-MS, NMR,
Schlenk techniques, gas -exchange techniques.

Research focus

- ❖ Plant stress ecophysiology and VOC emission
- ❖ Analytical methods development for organic compounds and pharmaceutical products
- ❖ Enzymatic and redox reactions

Research Stays:

April 2002 - May 2002, Veszprem University, Department of General and Inorganic Chemistry, Hungary, Prof. Dr. Attila Horvath

September 2004, Centro di Ecologia Alpina, Monte Bondone, Italy

November 2004, Unitat Ecofisiologia CSIC-CEAB-CREAF, Center for Ecological Research and Forestry Applications (CREAF), Universitat Autònoma de Barcelona, Bellaterra (Barcelona), Spain, Prof. Dr. Josep Penuelas

May-June 2006, Department of Plant Physiology, Institute of Molecular and Cell Biology, Tartu, Estonia, Prof. Dr. Ulo Niinemets

October-November 2006, Departments of Inorganic and Analytical Chemistry, University of Cagliari, Italy, Prof. Dr. Vito Lippolis

Projects:

Grant SPO for Est European researchers from Belgium Government

Grant European Science Foundation *Determination of monoterpene physico-chemical characteristics*, Reference number 815

Grant European Science Foundation *Sesquiterpene emission from plants induced by stress conditions*, Reference number 1838

Estonian Science Foundation *Physico-chemical traits of and signalling by volatile compounds*
Grant JD 101

Grant PNII-RU-TE-2011-3-0022 *Emission of volatile compounds from Betulacea and Fagacea elicited during biotic and abiotic stresses*

Projects member:

1. *Kinetic methods for organic compounds and heavy metal, kinetic studies for substances with biological activities and oxidation process*. Grant CNCSIS, 2000-2002, Master of the project: Prof. Dr. Ioan Baldea
2. *Polymethynicdyes. Kinetic and spectral studies*, Grant CNCSIS 2002-2004. Master of the project: Prof. Assoc. Dr. Ioan Panea
3. *Kinetic studies used in hydrocarbons oxidation and kinetic methods*, Grant CNCSIS 2001. Master of the project: Lect. Dr. Claudia Muresanu
4. *Chemical systems for analytical application*, Grant CNCSIS 2001-2003. Master of the project: Lect. Dr. Alexandra Rustoiu-Csavdari
5. *Kinetic-mathematics modelling of complex reactions*, Grant CNCSIS, 2002-2004, Master of the project: Prof. Dr. Ioan Bâldea

6. *Characterisation and sources of carbonaceous atmospheric aerosols*, SPO contract no. EV/02/11A, Master of the project: Prof. Dr. Willy Maenhaut
7. *Organomercury, organoselenium and organotellurium hypervalent compounds - syntethesis, structural characterisation in solution and solid state, reactivity*, Project CEEEX 19, mod 2, - postdoctoral researcher, 2006-2008, Master of the project: Prof. Dr. Cristian Silvestru
8. *Functional relations between plant structure and physiological activity*, Science Foundation Grant, 2005 – 2007, Master of the project: Dr. Katja Huve
9. *Constitutive and induced emission of volatile isoprenoids in forest trees*, Estonian Science Foundation Grant 7645, 2008 – 2011, Master of the project: Prof. Dr. Ulo Niinemets
10. *Plant stress ecophysiology*, Estonian Science Foundation Grant, 2007 – 2012, Master of the project: Prof. Dr. Ulo Niinemets
11. *Induction of plant VOC emission by biotic and abiotic stresses and consequences for community ecology: a multidisciplinary approach (A-BIO-VOC)*, EUROCORES / EUROVOL, 2011-2014, Master of the project: Prof. Dr. Ulo Niinemets
12. *Proiect POS CCE „Bast Plants – strategic renewable resources for european economy”* contract no 210/2010, Master of the project: Prof. Dr. Ryszard M. Kozlowski
13. *Research Center in Natural and Technical Sciences*, Project POSCCE- O.2.2.1, 2014-2015, management team member, Master of the project: CS I Dr. Cecilia Sîrghie

PROFESSIONAL MEMBERSHIP

Romanian Chemical Society (since 2000), Romanian National Society of Environmental Sciences and Engineering (since 2012) – initiator member, Romanian Society of Biochemistry and Molecular Biology (since 2015)

Other Experience:

- I was supervisor of five bachelor and two master theses in chemical physics, one bachelor thesis in plant physiology, one bachelor and 3 master theses in environmental sciences.
- Course certificate: The new global research system – challenges facing young supervisors of today, Sagadi, Estonia, 16-19 September 2008
- Reviewer for “Annals of Forest Science”, “Environmental Pollution”, “Tree Physiology”, “Atmospheric Environment”, “Biogeosciences”, “PNAS”, “Mini-Reviews in Medicinal Chemistry”, “Science of the Total Environment”, “Journal of Planar Chromatography”, “Anthropod-Plant Interactions”, “Journal of Chemical Engineering”, “Australian Journal Crop Science”, “Textile Research Journal”, “Global Change Biology”, “Food Chemistry”, “Analytical Letters”, PLOS One, Trees, etc.

- Reviewer for UEFISCDI, ANCSI, NSF, European Commission (ERC projects), Bulgarian Science Foundation
- Referee for 7 Ph.D. thesis: two at Babes-Bolyai University, Cluj-Napoca, 4 at USAMVB Timisoara, 1 at Politehnica Bucharest
- Member in CNATDCU – environmental engineering commission (since 2016)
- Member in editorial board for Journal of Natural Fibers, Scientific Bulletin of Escorena

List of Publications:

a) Articles in ISI international journals

1. **Lucian Copolovici**, Ioan Bâldea, Kinetic Determination of Aromatic Amines at Millimolar Level, *Anal. & Bioanal. Chem.*, **2002**, 374, 13-16 (I.F. = 3.431).
2. Simona Bungău, Ioan Bâldea, **Lucian Copolovici**, Determinarea acidului ascorbic din fructe folosind o metodă de tip Landolt (Ascorbic acid determination from fruits using Landolt type methods), (*in Romanian*), *Rev. Chim.*, **2002**, 54(3), 213-216 (I.F. = 1.232).
3. Claudia Muresanu, **Lucian Copolovici**, Kinetic Method for Acetylsalicylic Acid Determination Based on its Inhibitory Effect Upon Catalytic Decomposition of H₂O₂, *Anal. & Bioanal. Chem.*, **2004**, 318, 1868-1872 (I.F. = 3.431).
4. Simona Bungău, **Lucian Copolovici**, Ioan Bâldea, Ildiko Szabo, Determinarea metioninei printr-o metodă de oxidare cu permanganat din produse farmaceutice, (Methionine Determination Using an Oxidation Method from Drugs), (*in Romanian*), *Rev. Chim.*, **2004**, 55(11), 886-888 (I.F. = 1.232).
5. Simona Bungău, **Lucian Copolovici**, Ioan Bâldea, Vasilica Merca, Determinarea piridoxinei din produse farmaceutice utilizând două metode cinetice, (Pyridoxine Determination Using Two Kinetic Methods from Drugs), (*in Romanian*), *Rev. Chim.*, **2004**, 55(12), 945-948 (I.F. = 1.232).
6. **Lucian Copolovici**, Simona Bungău, Felicia Drăgan, Determination of Acetylsalicylic Acid from Drugs Using Kinetic Methods, *Rev. Chim.*, **2005**, 56(4), 374-377 (I.F. = 1.232).
7. Claudia Muresanu, **Lucian Copolovici**, and Florina Pogacean, Kinetic Method for *para*-nitrophenole Determination Based on an Enzyme Catalysed Reaction, *Central European Journal Chemistry*, **2005**, 3(4), 592-604 (I.F. = 1.46).
8. **Lucian Copolovici**, Iolanda Filella, Joan Llusà, Ülo Niinemets, Josep Peñuelas, The capacity for thermal protection of photosynthetic electron transport varies for different monoterpenes in *Quercus ilex*, *Plant Physiology.*, **2005**, 139, 485-496 (I.F. = 6.456).

9. **Lucian Copolovici**, Ülo Niinemets, Temperature dependencies of Henry's law constants and octanol/water partition coefficients for key plant volatile monoterpenoids, *Chemosphere*, **2005**, 61, 1390-1400 (I.F. = 4.208).
10. **Lucian Copolovici**, Ülo Niinemets, Effects of low-molecular organic compounds, pH and salt content on partitioning equilibrium of monoterpene at water -air and water- lipid phases interfaces, *Chemosphere*, **2007**, 69, 621-629 (I.F. = 4.208).
11. **Lucian Copolovici**, Cristian Silvestru, Vito Lippolis, Richard A. Varga, Iodidomesityltellurium(II) iodido-trimesitylditellurium(II)(Te-Te), *Acta Crystallogr.*, **2007**, C63, o528-o529, (I.F. = 4.099).
12. **Lucian Copolovici**, Richard A. Varga, Vito Lippolis, Cristian Silvestru, Bis(tetraphenyl-imido-diphosphine acid) tri-iodide, *Acta Crystallogr.*, **2007**, E63, o4206-o4207.
13. **Lucian Copolovici**, Vilma Bojan, Cristian Silvestru, Richard A. Varga, 1-Bromo-2,6-bis(*N*-methylpiperazinylmethyl)benzene, *Acta Crystallogr.*, **2007**, E63, o4323.
14. **Lucian Copolovici**, Vilma Bojan, Cristian Silvestru, Richard A. Varga, 1-Bromo-2,6-bis(*N*-morpholinylmethyl)benzene, *Acta Crystallogr.*, **2007**, E63, o4570.
15. **Lucian Copolovici**, Ioan Baldea, Kinetics of the Phenol Oxidation by Permanganate in Acidic Media, *Rev. Roum. Chem*, **2007**, 52, 1045 – 1050 (I.F. = 0.246).
16. Steffen Noe, **Lucian Copolovici**, Ülo Niinemets, Evi Vaino, Storage of limonene in leaves is positively correlated to the leaves lipid content, *Plant Biology*, **2008**, 10, 129 - 137 (I.F. = 2.106).
17. Bahtijor Rasulov, **Lucian Copolovici**, Agu Laisk, Ulo Niinemets, Postillumination isoprene emission: in vivo measurements of dimethylallyldiphosphate pool size and isoprene synthase kinetics in aspen leaves, *Plant Physiology*, **2009**, 149, 1609-1618 (I.F. = 6.456).
18. Ivan Kourtchev, **Lucian Copolovici**, Magda Claeys, Willy Maenhaut, Characterization of atmospheric aerosols at a forested site in Central Europe, *Environmental Science & Technology*, **2009**, 43, 4665-4671 (I.F. = 6.198).
19. **Lucian Copolovici**, Astrid Kannaste, Ulo Niinemets, Gas chromatography-mass spectrometry method for determination of monoterpene and sesquiterpene emissions from stressed plants, *Studia Univ. Babes-Bolyai, Chem.*, **2009**, 54, 329-333 (I.F. = 0.224).
20. **Lucian Copolovici**, Ulo Niinemets, Flooding induced emissions of volatile signalling compounds in three tree species with differing waterlogging tolerance, *Plant Cell and Environment*, **2010**, 33, 1582-1594 (I.F. = 6.173).

21. Merje Toome, Pille Randjärv, **Lucian Copolovici**, Ülo Niinemets, Katrin Heinsoo, Anne Luik, Steffen M. Noe, Leaf rust induced volatile organic compounds signalling in willow during the infection, *Planta*, **2010**, 232(1), 235-243 (I.F. = 3.361).
22. **Lucian Copolovici**, Ioan Baldea, Kinetics of the phenol oxidation by permanganate in acidic media. The intermediate oxidized species 4,4'-biphenoquinone evolution, *Studia Univ. Babes-Bolyai, Chem.*, **2010**, 55(2), 155-167 (I.F. = 0.244).
23. **Lucian Copolovici**, Ioan Baldea, Alexandra Csavdari, Determination of aromatic amines and phenols by kinetic methods based on Landolt effect, *Studia Univ. Babes-Bolyai, Chem.*, **2010**, 55(1), 103-111 (I.F. = 0.244).
24. Ulo Niinemets, **Lucian Copolovici**, Katja Huve, High within-canopy variation in isoprene emission potentials in temperate trees: implications for predicting canopy-scale isoprene fluxes, *Journal of Geophysical Research – Biogeosciences*, **2010**, 115, G04029 (I.F. = 3.318).
25. **Lucian Copolovici**, Astrid Kannaste, Triinu Remmel, Vivian Vislap, Ulo Niinemets, Volatile emissions from *Alnus Glutiosa* induced by herbivory are quantitatively related to the extent of damage, *Journal of Chemical Ecology*, **2011**, 37, 18-28 (I.F. = 2.385).
26. Steffen M. Noe, Veljo Kimmel, Katja Huve, **Lucian Copolovici**, Miguel Portillo-Estrada, Ulle Puttsepp, Kalev Jagiste, Ulo Niinemets, Lukas Hortnagl, Georg Wohlfahrt, Ecosystem-scale biosphere-atmosphere interactions of a hemiboreal mixed forest stand at Jarvselja, Estonia, *Forest Ecology and Management*, **2011**, 262, 71-81. (I.F. = 3.064).
27. Ülo Niinemets, Uwe Kuhn, Peter C. Harley, Michael Staudt, Almut Arneth, Alessandro Cescatti, Paolo Ciccioli, **Lucian Copolovici**, Chris Geron, Alex Guenther, Jürgen Kesselmeier, Manuel T. Lerdau, Russell K. Monson, Josep Peñuelas, Estimation of isoprenoid emission factors from enclosure studies: measurements, data processing, quality and standardized measurement protocols, *Biogeosciences*, **2011**, 8, 2209-2246 (I.F. = 3.851).
28. Z. Sun, **Lucian Copolovici**, Ulo Niinemets, Can the capacity for isoprene emission acclimate to environmental modifications during autumn senescence in temperate deciduous tree species *Populus tremula*?, *Journal of Plant Research*, **2012**, 125, 263-274 (I.F. = 1.899).
29. **Lucian Copolovici**, Astrid Kannaste, Leila Pazouki, Ulo Niinemets, Emissions of green leaf volatiles and terpenoids from *Solanum lycopersicum* are quantitatively related to the severity of cold and heat shock treatments, *Journal of Plant Physiology*, **2012**, 169, 664-672 (I.F. = 3.121).

30. Steffen Noe, Katja Huve, Ulo Niinemets, **Lucian Copolovici** Seasonal variation in vertical volatile compounds air concentrations within a remote hemiboreal mixed forest, *Atmospheric Chemistry and Physics*, **2012**, 12, 3909–3926 (I.F. = 5.318).
31. Zhihong Sun, Ülo Niinemets, Katja Hüve, Steffen M. Noe, Bahtijor Rasulov, **Lucian Copolovici**, Vivian Vislap Enhanced isoprene emission capacity and altered light responsiveness in aspen grown under elevated atmospheric CO₂ concentration, *Global Change Biology*, **2012**, 18, 3423–3440 (I.F. = 8.502).
32. Eve Veromann, Merje Toome, Astrid Kännaste, Riina Kaasik, **Lucian Copolovici**, Jaak Flink, Gabriella Kovács, Lea Narits, Anne Luik, Ülo Niinemets, Effects of nitrogen fertilization on insect pests, their parasitoids, plant diseases and volatile organic compounds in *Brassica napus*, *Crop Protection*, **2013**, 43, 79–88 (I.F. = 1.834).
33. Ocsana Opriş, Florina Copaciu, Maria Loredana Soran, Dumitru Ristoiu, Ülo Niinemets, **Lucian Copolovici**, Influence of nine antibiotics on key secondary metabolites and physiological characteristics in *Triticum aestivum*: leaf volatiles as a promising new tool to assess toxicity, *Ecotoxicology and Environmental Safety*, **2013**, 87, 70–79 (I.F. = 3.743).
34. Florina Copaciu, Ocsana Opriş, Virginia Coman, Dumitru Ristoiu, Ülo Niinemets, **Lucian Copolovici**, Diffuse water pollution by anthraquinone and azo dyes in environment importantly alters foliage volatiles, carotenoids and physiology in wheat (*Triticum aestivum*), *Water Air and Soil Pollution*, **2013**, 224, 1478 (I.F. = 1.702).
35. Astrid Kännaste, **Lucian Copolovici**, Leila Pazouki, Marina Suhhorutšenko, Ülo Niinemets, Highly variable chemical signatures over short spatial distances among Scots pine (*Pinus sylvestris*) populations, *Tree Physiology*, **2013**, 33, 374–387 (I.F. = 3.653).
36. Magdalena Tomás, Jaume Flexas, **Lucian Copolovici**, Jeroni Galmés, Lea Hallik, Hipólito Medrano, Miquel Ribas-Carbó, Tiina Tosens, Vivian Vislap, Ülo Niinemets, Importance of leaf anatomy in determining mesophyll diffusion conductance to CO₂ across species: quantitative limitations and scaling up by models, *Journal of Experimental Botany*, **2013**, 64, 2269–2281 (I.F. = 5.83).
37. Emanuele Pallozzi, Tsonko Tsonev, Giovanni Marino, **Lucian Copolovici**, Ülo Niinemets, Francesco Loreto, Mauro Centritto, Isoprenoid emissions, photosynthesis and mesophyll diffusion conductance in response to blue light, *Environmental and Experimental Botany*, **2013**, 95, 50–58 (I.F. = 4.369).

38. Ülo Niinemets, Astrid Kännaste, **Lucian Copolovici**, Quantitative patterns between plant volatile emissions induced by biotic stresses and the degree of damage, *Frontiers in Plant Science*, **2013**, 4, 262. doi: 10.3389/fpls.2013.00262 (I.F. = 4.298).
39. **Lucian Copolovici**, Astrid Kännaste, Triinu Rimmel, Ülo Niinemets, Volatile organic compound emissions from *Alnus glutinosa* under interacting drought and herbivory stresses, *Environmental and Experimental Botany*, **2014**, 100, 55. Doi: 10.1016/j.envexpbot.2013.12.011 (I.F. = 4.369).
40. Salme Timmusk, Islam Abd El Daim, **Lucian Copolovici**, Triin Tanilas, Astrid Kännaste, Lawrence Behers, Eviatar Nevo, Gulaim Seisenbaeva, Elna Stenström, Ülo Niinemets, Drought-tolerance of wheat improved by soil bacteria from harsh environments: enhanced biomass production and reduced emissions of stress volatiles, *PLOS One*, **2014**, 9, e96086 (I.F. = 2.806).
41. Maria-Loredana Soran, Manuela Stan, Ülo Niinemets, **Lucian Copolovici**, Influence of microwave frequency electromagnetic radiation on terpene emission and content in aromatic plants, *Journal of Plant Physiology*, **2014**, 171, 1436-1443 (I.F. = 3.121).
42. **Lucian Copolovici**, Fred Väärtnõu, Miguel Portillo Estrada, Ülo Niinemets, Oak powdery mildew (*Erysiphe alphitoides*) induced volatile emissions scale with the degree of infection in *Quercus robur*, *Tree Physiology*, **2014**, 34, 1399-1410 (I.F. = 3.653).
43. Jeroni Galmes, M. V. Kapralov, **Lucian O. Copolovici**, C. Hermida-Carrera, Ulo Niinemets, Temperature responses of the Rubisco maximum carboxylase activity across domains of life: phylogenetic signals, tradeoffs, and importance for carbon gain, *Photosynthesis Research*, **2015**, 123, 183-201 (I.F. = 3.864).
44. Cecilia Sirghie, Mihaela Dochia, Ioan Vifor Istoc, Dorina Chambre and **Lucian Copolovici**, A comparison of a new method mediated by molybdenum complex with an enzymatic method for bleaching flax fibers, *Journal of Natural Fibers*, **2015**, 12, 378-387 (I.F. = 0.974).
45. Miguel Portillo-Estrada, **Lucian Copolovici**, Ulo Niinemets, Bias in leaf dry mass estimation after oven-drying isoprenoid storing leaves, *Trees*, **2015**, 29, 1805-1816 (I.F. = 1.842).
46. Cecilia Sirghie, Ioan Vifor Istoc, Simona Bungău, **Lucian Copolovici**, The influence of ultrasound field on laccase degumming process, *Cellulose Chemistry and Technology*, **2015**, 49, 901-904 (I.F. = 0.763).
47. **Lucian Copolovici**, Ulo Niinemets, Temperature dependencies of Henry's law constants for different plant sesquiterpenes, *Chemosphere*, **2015**, 138, 751-757 (I.F. = 4.208).

48. Florina Copaciu, Ocsana Opriş, Ülo Niinemets, **Lucian Copolovici**, Toxic influence of key organic soil pollutants on the total flavonoid content in wheat leaves, *Water Air and Soil Pollution*, **2016**, 227, 196 (I.F. = 1.702).
49. Kaia Kask, Astrid Kännaste, Eero Talts, **Lucian Copolovici**, Ülo Niinemets, How specialized volatiles respond to chronic, and short-term physiological and shock heat stress in *Brassica nigra*, *Plant Cell and Environment*, **2016**, 39, 2027-2042 (I.F. = 6.173).
50. Ildikó Lung, Maria-Loredana Soran, Ocsana Opriş, Mihail Radu Cătălin Truşcă, Ülo Niinemets, **Lucian Copolovici**, Induction of stress volatiles and changes in essential oil content and composition upon microwave exposure in the aromatic plant *Ocimum basilicum*, *Science of the Total Environment*, **2016**, 569, 489-495 (I.F. = 4.900).
51. Pasi Yli-Pirilä, **Lucian Copolovici**, Astrid Kannaste, Steffen Noe, James Blande, Santtu Mikkonen, Tero Klemola, Juha Pulkkinen, Annele Virtanen, Ari Laaksonen, Jorma Joutsensaari, Ülo Niinemets, Jarmo Holopainen, Herbivory by an outbreaking moth increases emissions of biogenic volatiles and leads to enhanced secondary organic aerosol formation capacity, *Environmental Science & Technology*, **2016**, 50, 11501-11510 DOI: 10.1021/acs.est.6b02800 (I.F. = 6.198).
52. Daniel Tomescu, Radu Şumălan, **Lucian Copolovici**, Dana Copolovici, The influence of soil salinity on volatile organic compounds emission and photosynthetic parameters of different local varieties of *Solanum lycopersicum* L., *Open Life Sciences*, **2017**, 12, 135-142 (I.F. = 0.448).
53. **Lucian Copolovici**, Andreea Pag, Astrid Kännaste, Adina Bodescu, Daniel Tomescu, Dana Copolovici, Maria-Loredana Soran, Ülo Niinemets, Disproportionate photosynthetic decline and inverse relationship between constitutive and induced volatile emissions upon feeding of *Quercus robur* leaves by large larvae of gypsy moth (*Lymantria dispar*) *Environmental and Experimental Botany*, **2017**, 138, 184-192 (I.F. = 4.369).
54. Dana Copolovici, Simona Bungau, Rica Boscencu, Delia Tit, **Lucian Copolovici**, The Fatty Acids Composition and Antioxidant Activity of Walnut Cold Press Oil, *Revista de chimie*, **2017**, 68, 507-509 (I.F. = 1.232).
55. Adriana Nita, Delia Tit, **Lucian Copolovici**, Carmen Melinte, Dana Copolovici, Simona Bungau, ¹H-NMR study of famptodine and nitzidine complexes with β-cyclodextrin, *Revista de chimie*, **2017**, 68, 1170-1173 (I.F. = 1.232).
56. **Lucian Copolovici**, Daniela Timiş, Monica Tăşchină, Simona Bungău, Gabriela Cioca, Dana Copolovici, Diclofenac influence on photosynthetic parameters and volatile organic compounds

emission from *Phaseolus vulgaris* L. plants, *Revista de chimie*, **2017**, 68, 2076-2078 (I.F. = 1.232).

57. Monica Tășchină, Dana Maria Copolovici, Simona Bungău, Andreea Lupitu, **Lucian Copolovici**, Ciprian Iovan, The influence of residual acetaminophen on beans (*Phaseolus vulgaris* L.) plants secondary metabolites, *Farmacia*, **2017**, 65, 709-713 (I.F. = 1.348).
58. Simona Bungau, Delia Tit, Ciprian Iovan, **Lucian Copolovici**, Rica Boscencu, Gabriela Cioca, Dana Copolovici, New method for simultaneous determination of ascorbic and acetylsalicylic acids in effervescent tablets, *Revista de chimie*, **2017**, 68, 2495-2498 (I.F. = 1.232).
59. **Lucian Copolovici**, Adelina Ban, Ioana Faur, Dana Copolovici, The influence of simulated acidic rain on plants volatile organic compounds emission and photosynthetic parameters, *AgroLife Scientific Journal*, **2017**, 6, 73-76
60. Astrid Kannaste, Lauri Laanisto, Leila Pazouki, **Lucian Copolovici**, Marina Suhorutšenko, Muhammad Azeem, Lauri Toom, Anna-Karin Borg-Karlson, Ülo Niinemets, Diterpenoid fingerprints in pine foliage across an environmental and chemotypic matrix: isoabienol content is a key trait differentiating chemotypes, *Phytochemistry*, **2018**, 147, 80-88 (I.F. = 3.205)

Note: I.F. = Impact factor according with ISI Thompson Citation Report 2016

b) Articles in other national journals including BDI

(1) BDI articles

1. Alexandra Rustoiu-Csavdari, Ioan Baldea, **Lucian Copolovici**, Dana Mihai, The Hydrogen Peroxide- Iodide Reaction in Kinetic Chemical Analysis. An attempt for multicomponent calibration, *Studia Univ. Babes-Bolyai, Chem.*, **2000**, 45, 119-138.
2. Simona Bungău, Ioan Bâldea, **Lucian Copolovici**, Determination of some aminoacids from pharmaceutical products by using a kinetic method based on a clock Landolt-type system of redox reactions, *Studia Univ. Babes-Bolyai, Chem.*, **2002**, 47, 75-84.
3. Simona Bungău, **Lucian Copolovici**, Gavril Niac and Ioan Baldea, Kinetic Determination of B₁, B₂ and B₆ vitamins, *Studia Univ. Babes-Bolyai, Chem.*, **2002**, 47, 141-148.
4. **Lucian Copolovici**, Claudia Muresanu, and Florina Fagadar, Kinetic Method for Hydroxylamine Determination based on an Enzyme Catalysed Reaction, *Bull. Inst. Polit. Iași*, **2003**, 5, 184-189.
5. **Lucian Copolovici**, Ioan Baldea, Logarithmic Extrapolation Method for Kinetic Determination of Amines Mixtures, *Studia Univ. "Babes-Bolyai", Chemia*, **2003**, 48(2), 85-90.

6. **Lucian Copolovici**, Ioan Baldea, Logarithmic Extrapolation Method for Kinetic Determination, *Annals of West Univ. Timisoara, Ser. Chemistry*, **2003**, 12(3), 1605-1612.
7. Simona Bungau, **Lucian Copolovici**, Ioan Baldea, Vitamin C and Aspirin Kinetic Determination from Pharmaceutical Effervescent Forms without Separation, *Farmacia*, **2004**, 52(1), 83-89.
8. Simona Bungău, **Lucian Copolovici**, Ioan Baldea, Ildiko Szabo, Kinetic Methods for the Determination of Cysteine and Methionine without Initial Separation, *Farmacia*, **2004**, 55(4), 60-66.
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