

## INFORMAȚII PERSONALE

## Lucian Octav Copolovici



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🗣 [Redacted]  
📄 [Redacted] | **Nationalitatea** Română

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## EXPERIENȚA PROFESIONALĂ

- 01/10/2014–Prezent**    **Profesor**  
Facultatea de Inginerie Alimentara, Turism si Protectia Mediului, Universitatea "Aurel Vlaicu", Arad (Romania)  
Atributii    Prelegeri, cursuri si seminarii in domeniul ingineriei mediului si ingineriei alimentare  
Cercetare stiintifica in domeniul stiintei si ingineriei mediului, ingineriei alimentare
- 17/01/2017–Prezent**    **Director**  
Institutul de Cercetare-Dezvoltare-Inovare în Științe Tehnice și Naturale al Universitatii "Aurel Vlaicu", Arad, Romania (ICDISTN)  
Atributii    Coordonarea întregii activități de cercetare științifică a I.C.D.I.S.T.N.  
Sprijinirea activitatii de aplicare a propunerilor pentru granturi și contracte de cercetare științifică în cadrul programelor naționale și internaționale precum și în colaborare cu mediul socio-economic
- 01/10/2014–30/09/2019**    **Conducator de doctorat asociat la scoala doctorala de Stiinta Mediului**  
Facultatea de Stiinta si Ingineria Mediului, Universitatea "Babes-Bolyai", Cluj-Napoca (Romania)  
Atributii    Supervizare si coordonare doctoranzi in domeniul stiintei mediului
- 01/10/2012–30/09/2014**    **Cercetator Stiintific II**  
Institutul de Cercetare-Dezvoltare-Inovare în Științe Tehnice și Naturale al Universitatii "Aurel Vlaicu", Arad (Romania)  
Atributii    Cercetare stiintifica in domeniul stiintelor naturale  
Responsabil laborator cromatografie si stiinte naturale
- 01/10/2011–01/10/2013**    **Senior Researcher**  
Department of Plant Physiology, Estonian University of Life Science, Tartu (Estonia)  
Atributii    Coordonarea laboratoarelor de cercetare din domeniul stiintelor naturale
- 01/10/2007–30/09/2011**    **Researcher**  
Department of Plant Physiology, Estonian University of Life Science, Tartu (Estonia)

Atributii Cercetare stiintifica in domeniul stiintelor naturale (fiziologia plantelor, cromatografie, metaboliți secundari)

01/07/2006–30/09/2007 **Cercetator postdoctoral**  
Facultatea de Chimie si Inginerie Chimica, Universitatea "Babes-Bolyai", Cluj-Napoca (Romania)

Atributii Sinteza si caracterizarea compusilor biologic activi cu Se si Te

01/04/2005–31/03/2006 **Postdoctoral researcher**  
Ghent University, Department of Analytical Chemistry, Institute of Nuclear Science, Ghent (Belgium)

Atributii Cercetare stiintifica in domeniul chimiei atmosferei

01/07/2004–30/01/2005 **Researcher**  
Department of Plant Physiology, Tartu University, Tartu (Estonia)

Atributii Cercetare stiintifica in domeniul stiintelor naturale (fiziologia plantelor, cromatografie, metaboliți secundari)

## EDUCAȚIE ȘI FORMARE

18/09/2018 **Abilitare in Ingineria Mediului (OMEN 5506/14.11.2018)**

20/02/2014 **Abilitare in Stiinta Mediului (OM 166/07.04.2014)**

01/11/1999–12/12/2003 **Doctorat in Chimie** EQF level 8  
Universitatea "Babes-Bolyai", Cluj-Napoca, Romania

01/10/1998–30/06/1999 **Studii Aprofundate in Electrochimie Aplicata** EQF level 7  
Facultatea de Chimie si Inginerie Chimica, Universitatea "Babes-Bolyai", Cluj-Napoca (Romania)

01/10/1994–30/06/1998 **Licentiat in Chimie si Fizica** EQF level 6  
Facultatea de Chimie si Inginerie Chimica, Universitatea "Babes-Bolyai", Cluj-Napoca (Romania)

15/09/1990–30/06/1994 **Studii liceale** EQF level 4  
Colegiul National "Mihai Viteazul", Turda (Romania)

## APTITUDINI ȘI COMPETENȚE PERSONALE

Limba materna Romana

Limbi straine

	Ascultare		Vorbire		Scriere
	Ascultare	Citire	Interactiune	Convorbire	
Engleza	C2	C2	C2	C1	C1
Rusa	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

## Aptitudini de comunicare

Aptitudini de comunicare obtinute in urma participarilor la diverse conferinte nationale si international cu prezentari orale

## Aptitudini organizatorice/manageriale

**Membru CNATDCU – Comisia de Ingineria Mediului (2016-2020)**

**Membru Senat (2016-prezent)**

**Membru Consiliu Scolii Doctorale Interdisciplinare (2019-prezent)**

**Specialist - Colegiul Consultativ pentru Cercetare-Dezvoltare și Inovare (CCCDI) - Comisia 2. Energie, mediu și schimbări climatice,**

**Director de proiect:**

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 (valoare 75.415 EUR).

Grant PNII-RU-TE-2011-3-0022 *Emission of volatile compounds from Betulacea and Fagacea elicited during biotic and abiotic stresses* (valoare 920.000 RON).

Proiect CNFIS-FDI -2018-0347, *Laborator la scara pilot de distilare pentru practica studentilor* (valoare 275.660 RON).

Proiect CNFIS-FDI -2019-0150, *Laborator la scara pilot pentru procesarea produselor din carne* (valoare 246.000 RON)

Proiect CNFIS FDI 2020-0178, *Laborator de evaluare a calității mediului pentru practica studenților*, (valoare 260.000 RON)

Proiect PN-III-P4-ID-PCE-2020-0410, *Impactul stresului abiotic și biotic asupra plantelor datorită schimbărilor climatice* (valoare 1.198.000 RON)

Proiect CNFIS-FDI 2022-0274, *Laborator de kinetoterapie și terapii complementare pentru practica studenților*, (valoare 213.000 RON)

**Mentor**

PN-III-P1-1.1-PD-2016-0484, Proiect de cercetare postdoctorala „Evaluarea influenței medicamentelor antiinflamatoare nesteroidiene asupra caracteristicilor fiziologice și metabolitilor secundari din legumele autohtone”, Director. CS III Dr. Ocsana Opris

PN-III-P1-1.1-PD-2019-0349, Proiect de cercetare postdoctorala „Influenta factorilor abiotici asupra caracteristicilor fiziologice si a metabolitilor secundari din plante aromatice”, Director CS III Dr. Andreea Lupitu

**Membru in echipa de management:**

Proiect POSCCE- O.2.2.1, 621/2014 *Research Center in Natural and Technical Sciences*, 2014-2015, Director CS I Dr. Cecilia Sirghie (valoare 15.000.000 RON).

Proiect POC, 30/2016, *New NANO-Architectures Biologically Inspired of Cellular type for Integrated Circuits*, 2016-2020, Director Prof. Dr. Valeriu Beiu (valoare 9.338.000 RON).

Proiect POC, Centru de cercetare in bio-eco-economie sustenabila, 2021-2023, Director: Ramona Lile, (valoare 35.000.000 RON)

**Membru in echipa de proiect:-**

1. *Kinetic methods for organic compounds and heavy metal, kinetic studies for substances with biological activities and oxidation process.* Grant CNCSIS, 2000-2002, Director: Prof. Dr. Ioan Baldea

2. *Polymethynicdyes. Kinetic and spectral studies*, Grant CNCSIS 2002-2004. Director: Conf. Dr. Ioan Panea

3. *Kinetic studies used in hydrocarbons oxidation and kinetic methods*, Grant CNCSIS 2001. Director: Lect. Dr. Claudia Muresanu

4. *Chemical systems for analytical application*, Grant CNCSIS 2001-2003. Director:: Lect. Dr. Alexandra Rustoiu-Csavdari
5. *Kinetic-mathematics modelling of complex reactions*, Grant CNCSIS, 2002-2004, Director:: Prof. Dr. Ioan Bâldea
6. *Characterisation and sources of carbonaceous atmospheric aerosols*, SPO contract no. EV/02/11A, Director:: Prof. Dr. Willy Maenhaut
7. *Organomercury, organoselenium and organotellurium hypervalent compounds - synthesis, structural characterisation in solution and solid state, reactivity*, Project CEEEX 19, mod 2, - postdoctoral researcher, 2006-2008, Director:: Prof. Dr. Cristian Silvestru
8. *Functional relations between plant structure and physiological activity*, Science Foundation Grant, 2005 – 2007, Director:: Dr. Katja Huve
9. *Constitutive and induced emission of volatile isoprenoids in forest trees*, Estonian Science Foundation Grant 7645, 2008 – 2011, Director:: Prof. Dr. Ulo Niinemets
10. *Plant stress ecophysiology*, Estonian Science Foundation Grant, 2007 – 2012, Director:: 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, Director: Prof. Dr. Ulo Niinemets
12. *Bast Plants – strategic renewable resources for european economy* Proiect POS CCE contract no 210/2010, 2012-2013, Director: Prof. Dr. Ryszard M. Kozlowski
13. *Inchiderea lanțurilor de valoare din bioeconomie prin obținerea de bioproduse inovative cerute de piață* PROSPER, Proiect PN-III-P1-1.2-PCCDI-2017-0569, Director: CS I Dr. Florin Oancea
14. *Cell-penetrating peptides-containing systems as a potential platform for the use in breast and prostate cancer treatment*, Proiect PN-III-P4-PCE-2021-0639, 2022-2024, Director: Prof. Dr. Habil. Dana Copolovici

#### Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Independent user	Independent user	Independent user

#### Digital skills - Self-assessment grid

Windows, Open Office, Origin, Prism, NIST, SigmaPlot

#### Alte aptitudini

Spectroscopie (UV/VIS, IR), cromatografie de gaze (FID, MS), de lichide, de schimb ionic, PTR-MS, RMN, tehnici Schlenk, tehnici de schimb de gaze

#### Permis de conducere

B

#### INFORMATII ADITIONALE

##### Membru

Societatea Romana de Chimie (din 2000), Societatea Nationala de Stiinta si Ingineria Mediului (din 2012) – membru fondator, Societatea Romana de Biochimie si Biologie Moleculara (din 2015)

##### Conferinte

Peste 230 de participari cu poster sau prezentari orale la conferinte nationale si internationale

##### Publicatii

95 articole cotate WOS  
7 carti

2 capitole de carte  
30 articole in jurnale BDI

- Premii** Best presentation award, Conferinta Agriculture for Life, Life for Agriculture, June 9 - 11, 2022, Bucharest, Romania  
Best presentation award, ICABBBE 2019, Atena, Grecia 2019  
Premiul si Medalia "Gh. Spacu" al Societatii de Chimie din Romania 2018  
Premiul USAMVB pentru articol stiintific 2018  
Best poster award Sectiunea Biotechnology la Conferinta Agriculture for Life, Life for Agriculture, June 9 - 11, 2018, Bucharest, Romania.  
Best poster award Sectiunea Food Safety la Conferinta Agriculture for Life, Life for Agriculture, June 9 - 11, 2018, Bucharest, Romania.  
Best poster award Sectiunea Biotechnology la Conferinta Agriculture for Life, Life for Agriculture, June 9 - 11, 2014, Bucharest, Romania.
- Citari** Peste 2900, h index 30 (WOS);
- Reviewer pentru** "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, Ecological Letter, etc.
- Expert** UEFISCDI, NSF, European Commission (ERC projects), Bulgarian Science Foundation
- Membri in colectivul editorial** Journal of Natural Fibers  
Scientific and Technical Bulletin Series Chemistry, Food Science & Engineering  
Revista de chimie  
Frontiers in Plant Science

Arad, 14.02.2023

Prof. Dr. Habil. Lucian Copolovici

#### a) Articole ISI

1. **Lucian Copolovici**, Ioan Bâldea, Kinetic Determination of Aromatic Amines at Millimolar Level, *Anal. & Bioanal. Chem.*, **2002**, 374, 13-16 (I.F. = 3.637).
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. = 1.755).
3. Claudia Muresanu, **Lucian Copolovici**, Kinetic Method for Acetylsalicylic Acid Determination Based on its Inhibitory Effect Upon Catalytic Decomposition of H<sub>2</sub>O<sub>2</sub>, *Anal. & Bioanal. Chem.*, **2004**, 318, 1868-1872 (I.F. = 3.637).
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. = 1.755).
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. = 1.755).
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. = 1.755).
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. = 6.902).
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. = 5.778).
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. = 5.778).
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. = 1.109).
12. **Lucian Copolovici**, Richard A. Varga, Vito Lippolis, Cristian Silvestru, Bis(tetraphenyl-imido-diphosphine acid) tri-iodide, *Acta Crystallogr.*, **2007**, E63, o4206-o4207 (I.F. = 0.347).
13. **Lucian Copolovici**, Vilma Bojan, Cristian Silvestru, Richard A. Varga, 1-Bromo-2,6-bis(*N*-methylpiperazinylmethyl)benzene, *Acta Crystallogr.*, **2007**, E63, o4323 (I.F. = 0.347).
14. **Lucian Copolovici**, Vilma Bojan, Cristian Silvestru, Richard A. Varga, 1-Bromo-2,6-bis(*N*-morpholinylmethyl)benzene, *Acta Crystallogr.*, **2007**, E63, o4570 (I.F. = 0.347).
15. **Lucian Copolovici**, Ioan Baldea, Kinetics of the Phenol Oxidation by Permanganate in Acidic Media, *Rev. Roum. Chem*, **2007**, 52, 1045 – 1050 (I.F. = 0.381).

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. = 2.167).
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. = 6.902).
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. = 7.864).
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. = 0.494).
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. = 6.362).
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. = 3.390).
22. **Lucian Copolovici**, Ioan Baldea, Kinetics of the phenol oxidation by permanganate in acidic media. The intermediate oxidized species 4,4'-biphenanthrone evolution, *Studia Univ. Babes-Bolyai, Chem.*, **2010**, 55(2), 155-167 (I.F. = 0.494).
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. = 0.494).
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. = 3.408).
25. **Lucian Copolovici**, Astrid Kannaste, Triinu Remmel, Vivian Vislap, Ulo Niinemets, Volatile emissions from *Alnus glutinosa* induced by herbivory are quantitatively related to the extent of damage, *Journal of Chemical Ecology*, **2011**, 37, 18-28 (I.F. = 2.117).
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 Jarvelja, Estonia, *Forest Ecology and Management*, **2011**, 262, 71-81 (I.F. = 3.170).
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. = 3.480).
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. = 2.185).

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. = 3.013).
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. = 5.414).
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 CO<sub>2</sub> concentration, *Global Change Biology*, **2012**, 18, 3423–3440 (I.F. = 8.555).
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. = 2.381).
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. = 4.872).
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. = 1.900).
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..655).
36. Magdalena Tomás, Jaime 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 CO<sub>2</sub> across species: quantitative limitations and scaling up by models, *Journal of Experimental Botany*, **2013**, 64, 2269-2281 (I.F. = 5.908).
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. = 4.027).
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. = 4.402).
39. **Lucian Copolovici**, Astrid Kännaste, Triinu Remmel, 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. = 4.027).
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. = 2.740).



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. = 3.013).
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. = 3.655).
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. =3.216).
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. = 2.622).
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. = 2.125).
46. Cecilia Sîrghie, 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. =0.857).
47. **Lucian Copolovici**, Ulo Niinemets, Temperature dependencies of Henry's law constants for different plant sesquiterpenes, *Chemosphere*, **2015**, 138, 751-757 (I.F. = 5.778).
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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. = 6.362).
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