

Institutia de invatamant superior: Universitatea „Aurel Vlaicu” din Arad

Facultatea de Inginerie Alimentara, Turism și Protecția Mediului

Departamentul Științe Tehnice și ale Naturii

Poz. post: 08

Disciplinele postului: Ecologie și protecția mediului; protecția ecosistemelor

Fisa de verificare pentru indeplinirea standardelor minime pentru ocuparea postului de profesor universitar

Candidat: Lucian Octav Copolovici

Data nasterii: 13.08.1976

Functia actuala: Cercetator științific II

Institutia: Institutul de Cercetare – Dezvoltare – Inovare in Stiinte Tehnice si Naturale a Universitatii „Aurel Vlaicu” din Arad

Nr.crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori	Punctaj
0	1	2	3	4	5	6
1	1.1	Carti/Capitole în cărți de specialitate/Monografii (cu ISBN)	Professor: minimum 4 Internationale	40 puncte/100pagini		0
				1. Astrid Kannaste, Lucian Copolovici, Ulo Niinemets, <i>Gas Chromatography-Mass Spectrometry Method for Determination of Biogenic Volatile Organic Compounds Emitted by Plants</i> , in: Methods in Molecular Biology, Plant isoprenoids, Methods and Protocols, Humana Press, Springer New York, pp 161-169, 2014, ISBN 978-1-4939-0605-5.	3,2	
			Punctaj Naționale	20 puncte/100pagini		3,2
				1. Simona Bungau, Vasilica Merca, Lucian Copolovici, <i>Analiză Instrumentală și Metode de Separare</i> , Ed. Univ. Oradea, 228 p., 2004, ISBN 973-613-489-X.	45,6	
				2. Simona Bungau, Lucian Copolovici, <i>Chimie Analitică. Analiza Călitativă</i> , Ed. Univ. Oradea, 230 p., 2005, ISBN 973-613-804-6.	46	
				3. Felicia Drăgan, Lucian Copolovici, <i>Sinteză unor produse cu importanță farmaceutică</i> , Ed. Focus, 184 p., 2005, ISBN 973-87104-5-6.	36,8	
				4. Simona Bungau, Lucian Copolovici, <i>Teorie și aplicații practice în analiza cantitativă</i> , Ed. Didactica și Pedagogica, 213 p., 2006, ISBN 973-30-1622-5.	42,6	
				5. Simona Bungău, Delia Mirela Tiț, Lucian Copolovici, Eleonora Marian, <i>Teorie și aplicații practice în analiza cantitativă</i> , Ediția a II-a, Ed. Didactică și Pedagogică, 380 p., 2011, ISBN 978-973-30-2910-6.	76	

9.	Lucian Copolovici, Ülo Niinemets, Temperature dependencies of Henry's law constants and octanol/water partition coefficients for key plant volatile monoterpenoids, <i>Chemosphere</i> , 2005 , <i>61</i> , 1390-1400	2,297
10.	Lucian Copolovici, Ülo Niinemets, Effects of low-molecular organic compounds, pH and salt content on partitioning equilibrium of monoterpane at water-air and water-lipid phases interfaces, <i>Chemosphere</i> , 2007 , <i>69</i> , 621-629	2,739
11.	Lucian Copolovici, Cristian Silvestru, Vito Lippolis, Richard A. Varga, Iodidomesitylltellurium(II) iodido-trimesitylditellurium(II)(Te-Te), <i>Acta Crystallogr.</i> , 2007 , <i>C63</i> , 0528-0529	0,719
12.	Lucian Copolovici, Richard A. Varga, Vito Lippolis, Cristian Silvestru, Bis(tetraphenyl-imido-diphosphine acid) tri-iodide, <i>Acta Crystallogr.</i> , 2007 , <i>E63</i> , 04206-04207	0,347
13.	Lucian Copolovici, Vilma Bojan, Cristian Silvestru, Richard A. Varga, 1-Bromo-2,6-bis(<i>N</i> -methylpiperazinylmethyl)benzene, <i>Acta Crystallogr.</i> , 2007 , <i>E63</i> , 04323	0,347
14.	Lucian Copolovici, Vilma Bojan, Cristian Silvestru, Richard A. Varga, 1-Bromo-2,6-bis(<i>N</i> -morpholinylmethyl)benzene, <i>Acta Crystallogr.</i> , 2007 , <i>E63</i> , 04570	0,347
15.	Lucian Copolovici, Ioan Baldea, Kinetics of the Phenol Oxidation by Permanganate in Acidic Media, <i>Rev. Roum. Chem.</i> , 2007 , <i>52</i> , 1045 - 1050	0,262
16.	Steffen Noe, Lucian Copolovici, Ülo Niinemets, Evi Vaino, Storage of limonene in leaves is positively correlated to the leaves lipid content, <i>Plant Biology</i> , 2008 , <i>10</i> , 129 - 137	1,944
17.	Bahtrijor Rasulov, Lucian Copolovici, Agu Laisk, Ülo Niinemets, Postillumination isoprene emission: in vivo measurements of dimethylallyldiphosphate pool size and isoprene synthase kinetics in aspen leaves, <i>Plant Physiology</i> , 2009 , <i>149</i> , 1609-1618	6,235
18.	Ivan Kourtchev, Lucian Copolovici, Magda Claeys, Willy Maenhaut, Characterization of atmospheric aerosols at a forested site in Central Europe, <i>Environmental Science & Technology</i> , 2009 , <i>43</i> , 4665-4671	4,630
19.	Lucian Copolovici, Astrid Kannaste, Ülo Niinemets, Gas chromatography-mass spectrometry method for determination of monoterpane and sesquiterpene emissions from stressed plants, <i>Studia Univ. Babes-Bolyai. Chem.</i> , 2009 , <i>54</i> , 329-333	0,231
20.	Lucian Copolovici, Ülo Niinemets, Flooding induced emissions of volatile signalling compounds in three tree species with differing waterlogging tolerance, <i>Plant Cell and Environment</i> , 2010 , <i>33</i> , 1582-1594	5,145
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, <i>Planta</i> , 2010 , <i>232</i> (1), 235-243	3,098
22.	Lucian Copolovici, Ioan Baldea, Kinetics of the phenol oxidation by permanganate in acidic media. The intermediate oxidized species 4,4'-biphenoquinone evolution,	0,231

	<i>Studia Univ. Babes-Bolyai, Chem.</i> , 2010 , <i>55</i> (2), 155-167	
23.	Lucian Copolovici , Ioan Baldea, Alexandra Csavdari, Determination of aromatic amines and phenols by kinetic methods based on Landolt effect, <i>Studia Univ. Babes-Bolyai, Chem.</i> , 2010 , <i>55</i> (1), 103-111	0,231
24.	Ulo Nõinemets, Lucian Copolovici , Katja Huve, High within-canopy variation in isoprene emission potentials in temperate trees: implications for predicting canopy-scale isoprene fluxes, <i>Journal of Geophysical Research – Biogeosciences</i> , 2010 , <i>115</i> , G04029	3,303
25.	Lucian Copolovici , Astrid Kannaste, Triinu Remmel, Vivian Vislap, Ulo Nõinemets, Volatile emissions from <i>Alnus Glutinosa</i> induced by herbivory are quantitatively related to the extent of damage, <i>Journal of Chemical Ecology</i> , 2011 , <i>37</i> , 18-28	2,657
26.	Steffen M. Noe, Veljo Kimmel, Katja Huve, Lucian Copolovici , Miguel Portillo-Estrada, Ulle Puttepp, Kallev Jagiste, Ulo Nõinemets, Lukas Hortnagl, Georg Wohlfahrt, Ecosystem-scale biosphere-atmosphere interactions of a hemiboreal mixed forest stand at Jarveljärv, Estonia, <i>Forest Ecology and Management</i> , 2011 , <i>262</i> , 71-81	2,487
27.	Ülo Nõinemets, Uwe Kuhn, Peter C. Harley, Michael Staudt, Almut Arneth, Alessandro Cascati, 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, <i>Biogeosciences</i> , 2011 , <i>8</i> , 2209-2246	3,859
28.	Z. Sun, Lucian Copolovici , Ulo Nõinemets, Can the capacity for isoprene emission acclimate to environmental modifications during autumn senescence in temperate deciduous tree species <i>Populus tremula</i> ?, <i>Journal of Plant Research</i> , 2012 , <i>125</i> , 263-274	1,749
29.	Lucian Copolovici , Astrid Kaunaste, Leila Pazouki, Ulo Nõinemets, Emissions of green leaf volatiles and terpenoids from <i>Solanum lycopersicum</i> are quantitatively related to the severity of cold and heat shock treatments, <i>Journal of Plant Physiology</i> , 2012 , <i>169</i> , 664-672	2,791
30.	Steffen Noe, Katja Huve, Ulo Nõinemets, Lucian Copolovici Seasonal variation in vertical volatile compounds air concentrations within a remote hemiboreal mixed forest, <i>Atmospheric Chemistry and Physics</i> , 2012 , <i>12</i> , 3909-3926	5,520
31.	Zhihong Sun, Ülo Nõinemets, Katja Huve, Steffen M. Noe, Bahijor Rasulov, Lucian Copolovici , Vivian Vislap Enhanced isoprene emission capacity and altered light responsiveness in aspen grown under elevated atmospheric CO ₂ concentration, <i>Global Change Biology</i> , 2012 , <i>18</i> , 3423-3440	6,862
32.	Eve Veromann, Merje Toome, Astrid Kannaste, Riina Kaasik, Lucian Copolovici , Jaak Flink, Gabriella Kovács, Lea Naris, Anne Luik, Ülo Nõinemets, Effects of nitrogen fertilization on insect pests, their parasitoids, plant diseases and volatile organic compounds in <i>Brassica napus</i> , <i>Crop Protection</i> , 2013 , <i>43</i> , 79-88	1,598

33.	Ocsana Opris, Florina Copaciu, Maria Loredana Soran, Dumitru Ristoiu, Ülo Niinemets, Lucian Copolovici, Influence of nine antibiotics on key secondary metabolites and physiological characteristics in <i>Triticum aestivum</i> : leaf volatiles as a promising new tool to assess toxicity, <i>Ecotoxicology and Environmental Safety</i> , 2013, 87, 70-79	2,203	
34.	Florina Copaciu, Ocsana Opris, 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 (<i>Triticum aestivum</i>), <i>Water Air and Soil Pollution</i> , 2013, 224, 1478	1,742	
35.	Astrid Kämnast, Lucian Copolovici, Leila Pazouki, Marina Suhorutšenko, Ülo Niinemets, Highly variable chemical signatures over short spatial distances among Scots pine (<i>Pinus sylvestris</i>) populations, <i>Trees Physiology</i> , 2013, 33, 374-387	3,131	
36.	Magdalena Tomás, Laume Flexas, Lucian Copolovici, Jeroni Galmés, Lea Hallik, Hipólito Medrano, Miquel Ribas-Carbó, Tínia Tosas, Vivian Vislap, Ülo Niinemets, Importance of leaf anatomy in determining mesophyll diffusion conductance to CO ₂ across species: quantitative limitations and scaling up by models, <i>Journal of Experimental Botany</i> , 2013, 64, 2269-2281	5,242	
37.	Emanuele Pallozzi, Tsanko Tsonev, Giovanni Marino, Lucian Copolovici, Ülo Niinemets, Francesco Loreto, Mauro Centritto, Isoprenoid emissions, photosynthesis and mesophyll diffusion conductance in response to blue light, <i>Environmental and Experimental Botany</i> , 2013, 95, 50-58	2,578	
38.	Ülo Niinemets, Astrid Kämnast, Lucian Copolovici, Quantitative patterns between plant volatile emissions induced by biotic stresses and the degree of damage, <i>Frontiers in Plant Science</i> , 2013, 4, 262. doi: 10.3389/fpls.2013.00262	0	
39.	Lucian Copolovici, Astrid Kämnast, Triinu Remmel, Ülo Niinemets, Volatile organic compound emissions from <i>Alnus glutinosa</i> under interacting drought and herbivory stresses, <i>Environmental and Experimental Botany</i> , 2014, 100, 55-63	2,578	
40.	Salme Timmus, Islam Abd El Daim, Lucian Copolovici, Triin Tainlas, Astrid Kämnast, Lawrence Behers, Eviatar Nevo, Gulaim Seisenbaeva, Elna Stenström and Ülo Niinemets, Drought-tolerance of wheat improved by soil bacteria from harsh environments: enhanced biomass production and reduced emissions of stress volatiles, <i>PLOS One</i> , 2014, 9, e96086	3,73	
41.	Cecilia Sirghie, Mihaela Dochia, Ioan Vifor Iștoc, Dorina Chambre and Lucian Copolovici, A comparison of a new method mediated by molybdenum complex with an enzymatic method for bleaching flax fibers, <i>Journal of Natural Fibers</i> , 2014, accepted	0,558	
42.	Maria-Loredana Soran, Manuela Stan, Ülo Niinemets, Lucian Copolovici, Influence of microwave frequency electromagnetic radiation on terpene emission and content in aromatic plants, <i>Journal of Plant Physiology</i> , 2014, 171, 1436-1443.	2,699	
Total Factor de impact			94,031
2	2.2	Brevete de inventie	International ⁽¹⁾
			F _{equival} = 5,0
			-
			0

	Național ⁽²⁾	F _L _{equiv} = 0,5	0	
	Total Punctaj A2.2	-	0	
2.3	Articole în reviste și volumele unor manifestări științifice, indexate în baze de date internaționale ⁽³⁾ ISI proceedings	Profesor /CSI 5 puncte/lucrare	<p>1. A. Rustoiu-Csavdari, L. Copolovici, Z. Nagy, Possible Use of Artificial Neural Network in Tricomponent Calibration, Proc. 14th International Congress of Chemical and Process Engineering, 27-31 August, Praha, Czech Republic, 2000 (on CD).</p> <p>2. Manuela Stan, Maria L. Soran, Codruța Varodi, Ioana Lung, Lucian Copolovici, Constantin Mărășoiu, Extraction and GC determination of volatile aroma compounds from extracts of three plant species of the <i>Araliaceae</i> family, <i>AIP Conference Proceedings</i>, 1565, 75-78, 2013</p>	5
	Total Punctaj A2.3	Director/responsabil: Profesor/CSI <i>minimum 2 (granturi/proiecte/contracte)</i>	10	
2.4	Granturi/proiecte câștigate prin competiție	Internaționale – 15 puncte/5000 euro	<p>1. Grant SPO for Est European researchers from Belgium Government – 19.200 Euro 57,60</p> <p>2. Grant European Science Foundation Sesquiterpene emission from plants induced by stress conditions, Reference number 1838 – 7.200 Euro 21,60</p> <p>3. Estonian Science Foundation Physico-chemical traits of and signalling by volatile compounds Grant JD 101 - 75415,75 Euro 226,25</p> <p>1. Grant PNII-RU-TE-2011-3-0022 Emission of volatile compounds from Betulacea and Fagaceae elicited during biotic and abiotic stresses – 920.000 Lei 408,89</p>	
		Total Punctaj A2.3	TOTAL A2	
3	Recunoașterea și impactul	Citări în reviste ISI Thomson Reuters și BDI (se exclud autocitările ⁽⁵⁾)	<p>Profesor/CSI <i>minimum 30 citări</i> 3 puncte/citare^(3,4)</p> <p>Total punctaj A3.1</p>	
	2. Condiții minime (A_i)⁽⁶⁾	237 citări conform ISI Web of Knowledge la data de 21.06.2014	231* ₃	
	Nr. Categoria	Condiții profesor	Punctaj realizat (% fata de minim)	
1	Domeniul de activitate	Minimum 210 puncte	310,2 puncte (+47 %)	
2	Activitatea de cercetare (A2)	Minimum 500 puncte	4380,32 puncte (+776%)	
3	Recunoașterea impactului activității (A3)	Minimum 90 puncte	711 puncte (+690%)	
TOTAL		Minimum 800 puncte	5419,52 puncte (+573%)	

2. Condiții minime (A_i)⁽⁶⁾

Nr. crt.	Categorie	Condiții profesor	Punctaj realizat (% fata de minim)
1	Domeniul de activitate	Minimum 210 puncte	310,2 puncte (+47 %)
2	Activitatea de cercetare (A2)	Minimum 500 puncte	4380,32 puncte (+776%)
3	Recunoașterea impactului activității (A3)	Minimum 90 puncte	711 puncte (+690%)

Arad, 24.07.2014