



Academia Română
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Rezultatele de excepție ale Centrului de Chimie Organică în anul 2019

1. D-nei Dr ing. Isabela-Costinela Trăistaru (Man) i s-a decernat Premiul Nicolae Teclu al Academiei Române
2. Factorul mediu de impact per lucrare publicată de cercetătorii din CCO, în jurnale indexate pe Web of Science în 2020, este 3,670.
3. Factorul mediu de impact cumulat per cercetător din CCO (45 cercetători) în 2020 este 5,382.
4. S-au publicat 15 lucrări în reviste internaționale de prestigiu cu factor de impact > 5 listate mai jos:

Nr.	Articolul	Factor Impact
1	X. Xu, <u>V. V. Jerca</u> , R. Hoogenboom, „Bio-inspired Hydrogels as Multi-task Anti-icing Hydrogel Coatings”, <i>Chem</i> , 2020, 6(4), 820-822. DOI: 10.1016/j.chempr.2020.03.015	19.735
2	X. Xu, <u>V. V. Jerca</u> , R. Hoogenboom, „Structural Diversification of Pillar[n]arene Macrocycles”, <i>Angewandte Chemie International Edition</i> , 2020, 59(16), 6314-6316. DOI: 10.1002/anie.202002467	12.959
3	S.Divanis, T.Kutlusoy, I.M.I.Boye, <u>I.C.Man</u> *, J.Rossmesl, “Oxygen Evolution Reaction: A perspective on a decade of atomic scale simulations”, <i>Chemical Science</i> , 2020, 11,2943-2950,	9.556
4	A.Simion, N.Candu, B.Cojocar, S. Coman, C.Bucur, A.Forneli, A. Primo, <u>I.C.Man</u> , V. Parvulescu, H.Garcia, “Nanometer-thick films of antimony oxide nanoparticles grafted on defective graphenes as heterogeneous base catalysts for coupling reactions”, <i>Journal of Catalysis</i> , 2020, 390,135-14	7.888
5	L.X. You, B.B. Zhao, S.X. Yao, G. Xiong, <u>I. Dragutan</u> , <u>V. Dragutan</u> *, X.G. Liu, F. Ding, Y.G. Sun, “Engineering functional group decorated ZIFs to high-performance Pd@ZIF-92 nanocatalysts for C(sp ²)-C(sp ²) couplings in aqueous medium”, <i>J. Catal. (Elsevier)</i> 2020, 392(Dec.), 80-87. DOI: 10.1016/j.jcat.2020.09.024	7.888
6	R. Merckx, T. Swift, R. Rees, J. F. R. Van Guyse, E. Schoolaert, K. De Clerck, H. Ottevaere, H. Thienpont, <u>V. V. Jerca</u> , R. Hoogenboom, „Förster Resonance Energy Transfer in Fluorophore Labeled Poly(2-Ethyl-2-Oxazoline)s”, <i>Journal of Materials Chemistry C</i> , 2020, 8, 14125-14137. DOI: 10.1039/D0TC02830D	7.059
7	R.-A. Mitran, D. Lincu, S. Ioniță, M. Deaconu., <u>V. V. Jerca</u> , O. C. Mocioiu, D. Berger, C. Matei, „High Temperature Shape – Stabilized Phase Change Materials Obtained Using Mesoporous Silica and NaCl – NaBr – Na ₂ MoO ₄ salt eutectic”, <i>Solar Energy Materials and Solar Cells</i> , 2020, 218, 110760. DOI: 10.1016/j.solmat.2020.110760	6.984
8	M. Raicopol, N. Chira, M. Pandele, <u>A. Hanganu</u> , A.A. Ivanov, <u>V. Tecuceanu</u> , I.G. Bugean, G.-O. Buica “Electrodes modified with clickable thiosemicarbazone ligands for sensitive voltammetric detection of Hg(II) ions” <i>Sensors and Actuators B: Chemical</i> 2020, Vol 313, 128030. DOI: 10.1016/j.snb.2020.128030	6.390
9	<u>I.C.Man</u> *, S.G.Soriga, I.Tranca, “First principle studies of oxygen reduction reaction on N doped graphene: Impact of N concentration, position and co-adsorbate effect”, <i>Applied Surface Science</i> , 2020, 510, 1454470,	6.182
10	C. M. Damian, C. Ott, R. Stan, <u>A. Hanganu</u> , R. Trusca, B. Balanuca, “Harnessing a byproduct from wastewater treatment to obtain improved starch/poly(vinyl alcohol) composites”, <i>Carbohydrate Polymers</i> , 2020, 238, 115777, https://doi.org/10.1016/j.carbpol.2019.115777 .	6.044

11	E. Van Den Broeck, B. Verbraeken, K. Dedecker, P. Cnudde, L. Vanduyffhuys, T. Verstraelen, K. Van Hecke, <u>V. V. Jerca</u> , S. Catak, R. Hoogenboom, V. Van Speybroeck, „Cation– π Interactions Accelerate the Living Cationic Ring-Opening Polymerization of Unsaturated 2-Alkyl-2-oxazolines”, <i>Macromolecules</i> , 2020, 53(10), 3832–3846. DOI: 10.1021/acs.macromol.0c00865	5.918
12	X. Xu, <u>F. A. Jerca</u> , <u>V. V. Jerca</u> , R. Hoogenboom „Self-Healing and Moldable Poly(2-isopropenyl-2-oxazoline) Supramolecular Hydrogels Based on a Transient Metal Coordination Network”, <i>Macromolecules</i> , 2020, 53(15), 6566–6575. DOI: 10.1021/acs.macromol.0c01242	5.918
13	A.M. Pandele, H. Iovu, C. Orbeci, C. Tuncel, F. Miculescu, <u>A. Nicolescu</u> , <u>C. Deleanu</u> , S.I. Voicu “Surface Modified Cellulose Acetate Membranes for the Reactive Retention of Tetracycline”, <i>Separation and Purification Technology</i> , 2020, 249, 117145, DOI: 10.1016/j.seppur.2020.117145.	5.774
14	S. Maji, <u>V. V. Jerca</u> , R. Hoogenboom, „Dual pH and Thermoresponsive Alternating Polyampholytes in Alcohol/Water Solvent Mixtures”, <i>Polymer Chemistry</i> 2020, 11, 2205-2211. DOI: 10.1039/D0PY00032A	5.342
15	<u>A. Nicolescu</u> , A. Airinei, E. Georgescu, F. Georgescu, R. Tigoianu, F. Oancea, <u>C. Deleanu</u> , “Synthesis, photophysical properties and solvatochromic analysis of some naphthalene-1,8-dicarboxylic acid derivatives”, <i>Journal of Molecular Liquids</i> , 2020, 303, 112626. DOI: 10.1016/j.molliq.2020.112626.	5.065

Director,

Dr.ing. Dumitru Mircea VULUGA