

FIȘĂ DE AUTOEVALUARE

privind standardele minimale pe domenii ale Universității, pentru posturile de cercetare

ANEXA 2

Domeniul de Cercetare - CHIMIE			
Cercetător Științific ICI-CERNESIM	<u>Criterii minime</u> N _{max} = 8 FIC = 12 FIC _{AP} = 5 H = 2	<u>Nivel indeplinire</u> N _{max} = 7 FIC = 34.17 FIC _{AP} = 13.3 H = 3	ÎNDEPLINIT

- Marin S.L., Mardare (Balusescu) G., [C. Roman](#), Sandu I., Olariu R.I., Arsene C., Vasilache V., Authentication and Evaluation of the Technique of Minting the Romanian Coins of the 20th Century. I, Plastic Materials, 68 (9), 2155-2159, 2017 <https://doi.org/10.37358/RC.17.9.5846>. Factor impact: **1.41**
- Roman T., R-L. Asavei, N. Karkalos, [C. Roman](#), C. Vîrlan et al, Synthesis and adsorption properties of nanocrystalline ferrites for kinetic modeling development, International Journal of Applied Ceramic Technology, 16 (2), 693-705, 2019, DOI: 10.1111/ijac.13091. Factor impact: **1.76**
- [Roman C.](#), Roman T., Arsene C., Bejan I.G., Olariu R.-I., Gas-phase IR cross-sections and single crystal structures data for atmospheric relevant nitrocatechols, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 256, 120379, <https://doi.org/10.1016/j.saa.2021.120379>, 2022. Factor impact: **4.10**
- [Roman, C.](#), Arsene, C., Bejan, I. G., and Olariu, R.-I., Investigations into the gas-phase photolysis and OH radical kinetics of nitrocatechols: Implications of intramolecular interactions on their atmospheric behavior, Atmospheric Chemistry and Physics, 22, 2203–2219, <https://doi.org/10.5194/acp-22-2203-2022>, 2022. Factor impact: **6.30**
- Grira, A., Amarandei, C., [Roman, C.](#), Bejaoui, O., Aloui, N., El Dib, G., Arsene, C., Bejan, I. G., Olariu, R. I., Canosa, A., and Tomas, A.: Gas-phase ozone reaction kinetics of C5 –C8 unsaturated alcohols of biogenic interest, Journal of Physical Chemistry A, 126, 4413, <https://doi.org/10.1021/acs.jpca.2c02805>, 2022. Factor impact: **2.90**
- Mapelli, C., Schleicher, J. V., Hawtin, A., Rankine, C. D., Whiting, F. C., Byrne, F., McElroy, C. R., [Roman, C.](#), Arsene, C., Olariu, R. I., Bejan, I. G., Dillon, T. J., Atmospheric Breakdown Chemistry of the New “Green” Solvent 2,2,5,5-Tetramethyloxolane via Gas-Phase Reactions with OH and Cl Radicals. Atmospheric Chemistry and Physics, 22, 14589–14602, <https://doi.org/10.5194/acp-22-14589-2022>, 2022. Factor impact: **6.30**
- Arsene, C., G. Bejan, I., [Roman, C.](#), I. Olariu, R., Minella, M., Passananti, M., Carena, L., and Vione, D., Evaluation of the environmental fate of a semivolatile transformation product of ibuprofen based on a simple two-media fate model, Environmental Science & Technology, 56 (22), 15650-15660, <https://doi.org/10.1021/acs.est.2c04867>, 2022. Factor impact: **11.40**