

Grupul de cercetare

Chimia analitică a mediului

Publicații (selectiv)

1. Winiberg, F.A.F., Dillon, T.J., Orr, S.C., Groß, C.B.M., Bejan, I., Brumby, C.A., Evans, M.J., Smith, S.C., Heard, D.E., Seakins, P.W. Direct measurements of OH and other product yields from the $\text{HO}_2 + \text{CH}_3\text{C}(\text{O})\text{O}_2$ reaction, *Atmospheric Chemistry and Physics*, 16, 6, 4023-4042, **2016**.
2. Dulman, V., Cucu-Man, S.-M., Bunia, I., Dumitras, M., Batch and fixed bed column studies on removal of Orange G acid dye by a weak base functionalized polymer, *Desalination and Water Treatment*, 57, 14708-14727, **2016**.
3. Farrugia, L.N., Bejan, I., Smith, S.C., Medeiros, D.J., Seakins, P.W., Revised structure activity parameters derived from new rate coefficient determinations for the reactions of chlorine atoms with a series of seven ketones at 290 K and 1 atm, *Chemical Physics Letters*, 640, 87-93, **2015**.
4. Bejan, I., Barnes, I., Wiesen, P., Wenger, J.C., Temperature dependent rate coefficients for the reaction of OH radicals with dimethylbenzoquinones, *Chemical Physics Letters*, 639, 145-150, **2015**.
5. Gibilisco, R.G., Blanco, M.B., Bejan, I., Barnes, I., Wiesen, P., Teruel, M.A., Atmospheric Sink of (E)-3-Hexen-1-ol, (Z)-3-Hepten-1-ol, and (Z)-3-Octen-1-ol: Rate Coefficients and Mechanisms of the OH-Radical Initiated Degradation, *Environmental Science and Technology*, 49, 13, 7717-7725, **2015**.
6. Lauraguais, A., Bejan, I., Barnes, I., Wiesen, P., Coeur, C., Rate Coefficients for the Gas-Phase Reactions of Hydroxyl Radicals with a Series of Methoxylated Aromatic Compounds, *Journal of Physical Chemistry A*, 119, 24, 6179-6187, **2015**.
7. Olariu, R.I., Vione, D., Grinberg, N., Arsene C., Applications of liquid chromatographic techniques in the chemical characterization of atmospheric aerosols, *Journal of Liquid Chromatography and Related Technologies*, 38, 322-348, **2015**.
8. Sandu, I., Olariu, R.I., Sandu, I.G., Stirbu, C., Pascu, C., Vasilache, V., Vione, D., Arsene, C., Investigation of the dynamics and kinetics involved in saline aerosol generation under air erosion of pure and contaminated halide salts, *Journal of Aerosol Science*, 81, 100-109, **2015**.
9. Pinto, R.M., Guerra, M., Copeland, G., Olariu, R.I., Rodrigues, P., Teresa Barros, M., Lourdes Costa, M., Dias, A.A., The mechanism of pyrolysis of benzyl azide: Spectroscopic evidence for benzenemethanimine formation, *Journal of Physical Chemistry A*, 119, 4118-4126, **2015**.
10. Bejan, I., Duncianu, M., Olariu, R., Barnes, I., Seakins, P.W., Wiesen, P., Kinetic study of the gas-phase reactions of chlorine atoms with 2-chlorophenol, 2-nitrophenol, and four methyl-2-nitrophenol isomers, *Journal of Physical Chemistry A*, 119, 4735-4745, **2015**.
11. Braure, T., Riffault, V., Tomas, A., Olariu, R.I., Arsene, C., Bedjanian, Y., Coddeville, P., Ozonolysis of a Series of Methylated Alkenes: Reaction Rate Coefficients and Gas-Phase Products, *Journal of Chemical Kinetics*, 47 (9), 596-605, **2015**.
12. Harmens, H., Norris, D.A., Sharps, K., Mills, G., Alber, R., Aleksiyenak, Y., Blum, O., Cucu-Man, S.-M., Dam, M., De Temmerman, L., Ene, A., Fernández, J.A., Martínez-Abaigar, J., Frontasyeva, M., Godzik, B.I., Jeran, Z., Lazo, P., Leblond, S., Liiv, S., Magnússon, S.H., Maňková, B., Karlsson, G.P., Piispanen, J., Poikolainen, J., Santamaria, J.M., Skudnik, M., Spiric, Z., Stafilov, T., Steinnes, E., Stihl, C., Suchara, I., Thöni, L., Todoran, R., Yurukova, L., Zechmeister, H.G., Heavy metal and nitrogen

concentrations in mosses are declining across Europe whilst some "hotspots" remain in 2010, *Environmental Pollution*, 200, 93-104, **2015**.

13. Alina-Giorgiana Negru, Cecilia Arsene, Ana-Maria Zbancio, Ionel I. Mangalagiu, Romeo Iulian Olariu, Physico-chemical Behaviour of Newly Synthesized Macrocyclic Compounds. A reality between expectations and experimental evidences, *Revista de Chimie*, 66(9), 1339-1342, **2015**.
14. Olariu, R.I., Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H., FTIR product study of the reactions of NO₃ radicals with ortho-, meta-, and para-cresol, *Environmental Science and Technology*, 47, 7729-7738, **2013**.
15. Pindaru D.M., Tanase C., Olariu R.I., Arsene C., Chemical composition and ions concentration in *xanthoria parietina* and *phaeophyscia orbicularis* lichenised fungi species from Iasi, North-Eastern Romania, *Revista de Chimie*, 64(8), 807-814, **2013**.
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17. Cucu-Man, S., Steinnes, E. Analysis of selected biomonitors to evaluate the suitability for their complementary use in monitoring trace element atmospheric deposition, *Environmental Monitoring and Assessment*, 185, 7775-7791, **2013**.
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21. Cernat, R.I., Mihaescu, T., Vornicu, M. Vione, D., Olariu, R.I., Arsene, C.*, Serum trace metal and ceruloplasmin variability in individuals treated for pulmonary tuberculosis, *International Journal of Tuberculosis and Lung Diseases*, 15, 1239-1245, **2011**.
22. Arsene, C., Olariu, R.I., Zarmpas, P., Kanakidou, M., Mihalopoulos, N., Ion composition of coarse and fine particles in Iasi, north-eastern Romania. Implications for aerosols chemistry in the area, *Atmospheric Environment*, 45, 906-916, **2011**.
23. Olariu, R.I., Vione, D., Grinberg, N., Arsene, C.*, Sample preparation for trace analysis by chromatographic methods, *Journal of Liquid Chromatography & Related Technologies*, 33, 1174-1207, **2010**.
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25. Vione, D., Khanra, S., Cucu Man, S., Maddigapu, P.R., Das, R., Arsene, C., Olariu, R.I., Maurino, V., Minero, C., Inhibition vs. enhancement of the nitrate-induced phototransformation of organic substrates by the OH scavengers bicarbonate and carbonate, *Water Research*, 43, 4718 – 4728, **2009**.
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