

Lista de Lucrări

I. Articole științifice publicate în extenso în reviste cotate Web of Science cu factor de impact

1. Marin S.L., G. Mardare (Balusescu), [C. Roman](#), I. Sandu, R.I. Olariu, C. Arsene, V. Vasilache, Implicarea Tehnicilor de Microscopie Optica si Electronica in Autentificarea Obiectelor Numismatice, Revista Materiale Plastice, vol. 68, nr.9/2017.
2. 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, DOI: 10.1111/ijac.13091.

II. Participări la manifestări științifice

Internaționale

1. Bejan I., Marin S.L., [Roman C.](#), Duncianu M., Arsene C., Olariu R.I., *Validation of a Newly Designed Simulation Chamber (ESC-Q-UAIC) Using Gas Phase Investigations on Aromatic Compounds*, 24th International Symposium on Gas Kinetics and Related Phenomena, 17-21 Iulie 2016, York, Regatul Unit.
2. Olariu R.I., Marin S. L., [Roman C.](#), Bejan I.G., Arsene C., *Gas-phase kinetic study of OH radical reactions with selected alkylaromatic compounds*, Atmospheric Chemical and Biological Processes: Interactions and Impacts (ATMOCHEMBIO), 19-21 Iunie 2017, Clermont-Ferrand, Franța, <https://atmochembio.sciencesconf.org/>, pp. 37, 2017.
3. [Roman C.](#), Arsene C., Bejan I., Olariu R.I., *Temperature dependence kinetic studies by using the newly thermostated ESC-Q-UAIC chamber*, The 25th International Symposium on Gas Kinetics and Related Phenomena, 22- 26 Iulie 2018, Lille, Franța. <https://gk18.sciencesconf.org/>
4. [Roman C.](#), Arsene C., Olariu R.I., Bejan I., *Gas phase kinetic study of the OH radical initiated oxidation of alkylfurans at atmospheric pressure and 298±2 K*, The 25th International Symposium on Gas Kinetics and Related Phenomena, 22- 26 Iulie 2018, Lille, Franța. <https://gk18.sciencesconf.org/>
5. [Roman C.](#), Arsene C., Olariu R.I., Bejan I., *Kinetic investigations of the OH-initiated oxidation of a series of alkylfurans at 298 K and atmospheric pressure*, The 6th Atmospheric Chemical Mechanisms Conference, 5-7 December, University of California, Davis, USA. <https://acm.aqrc.ucdavis.edu/>

Naționale

1. [Roman C.](#), Bejan I., Olariu R.I., Arsene C., *Gas phase infrared absorption cross sections for a series of aromatic compounds in the ESC-Q-UAIC Chamber*, "Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference, Iași, Romania, pp. 27, 27-28 October 2016.
2. [Roman C.](#), Bejan I.G., Arsene C., Olariu R.I., *Gas-Phase FT-IR Kinetic Study of the OH Radicals with Phenol*, The 8th Scientific Session of Undergraduate, Master and PhD Students (SCSSMD), 30 Iunie 2017, Iași, Romania, Abstract în Acta Chemica Iași, 25 (1), pp. 103, 2017. <https://content.sciendo.com/view/journals/achi/25/1/article-p99.xml>
3. Olariu R.I., [Roman C.](#), Bejan I.G., Arsene C., *ESC-Q-UAIC chamber, a proper analytical tool for the estimation of infrared absorption cross sections for selected volatile organic compounds in the gas phase*, 20th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), 6-9 Septembrie 2017, Poiana Brașov, România. <http://riccce20.chimie.upb.ro/doc/conference-program.pdf>

4. [Roman C.](#), Bejan I.G., Arsene C., Olariu R.I., FT-IR gas-phase products study of OH radicals initiated photooxidation of phenol, Faculty of Chemistry Conference (IasiChem 2017), 26-28 Octombrie, **2017**, Iasi, România, Abstract în Acta Chemica Iasi, 25 (2), pp. 86, 2017.
<https://content.sciendo.com/view/journals/achi/25/2/article-p304.xml>
5. [Roman C.](#), Arsene C., Bejan I., Duncianu M., Tomas A., Riffault V., Olariu R.I., *Rate coefficient of gas-phase O₃ initiated oxidation of C5-C6 unsaturated aldehydes*, The 9th Scientific Session of Undergraduate, Master and PhD Students (SCSSMD), 29-30 iunie **2018**, Iasi, Romania.
[http://www.chem.uaic.ro/files/File/2017-2018/scssmd2018/2018-program-scssmd-29-30-iunie\(3\).pdf](http://www.chem.uaic.ro/files/File/2017-2018/scssmd2018/2018-program-scssmd-29-30-iunie(3).pdf)
6. [Roman C.](#), Arsene C., Olariu R.I., Bejan I., *Rate coefficient of the gas-phase OH initiated oxidation of 2,5-dimethylfuran at 298±2 K*, The 9th Scientific Session of Undergraduate, Master and PhD Students (SCSSMD), 29-30 iunie **2018**, Iasi, Romania.
<https://content.sciendo.com/view/journals/achi/25/2/article-p304.xml>
7. [Roman C.](#), Arsene C., Bejan I., Olariu R.I., *Rate coefficient of the gas-phase atmospheric OH radical initiated oxidation of 2-methoxyphenol*, The 35th National Chemistry Conference, 02-05 octombrie, **2018**, Căciulata, România.
http://conference.oltchim.ro/texte/program%20CNC_2018.pdf
8. [Roman C.](#), Arsene C., Olariu R.I., Bejan I., *Kinetic study of the gas-phase oh radical initiated oxidation of 2-methylfuran in atmospheric conditions*, The 35th National Chemistry Conference, 02-05 octombrie, **2018**, Căciulata, România.
http://conference.oltchim.ro/texte/program%20CNC_2018.pdf
9. Rusu A.M., [Roman C.](#), Arsene C., Bejan I.G., Olariu R.I., Gas chromatography-mass spectrometry (GC-MS) analysis of gaseous methylglyoxal after derivatization and solid phase extraction, The XXXV-th Romanian Chemistry Conference, Posters Section, Calimanesti-Caciulata, Valcea, Romania, 02-05 October, **2018**.
http://conference.oltchim.ro/texte/program%20CNC_2018.pdf
10. [Roman C.](#), Arsene C., Olariu R.I., Bejan I.G., Rate coefficients for the gas-phase OH radical initiated oxidation of 2,3,5- trimethylfuran and 2,3,4,5-tetramethylfuran in atmospheric conditions, Faculty of Chemistry Conference, IasiChem2018, Posters Section, Iasi, Romania, 25-26 October, **2018**.
<http://www.chem.uaic.ro/files/File/2018-2019/conferinta-facultatii-de-chimie/program-corectat.pdf>
11. Rusu A.M., [Roman C.](#), Arsene C., Bejan I.G., Olariu R.I., Kinetic study of the gas-phase reaction of OH radicals with 3-methyl-2-buten-1-ol at 298 K and atmospheric pressure, Faculty of Chemistry Conference, IasiChem2018, Posters Section, Iasi, Romania, 25-26 October, **2018**
<http://www.chem.uaic.ro/files/File/2018-2019/conferinta-facultatii-de-chimie/program-corectat.pdf>
12. [Roman C.](#), Arsene C., Olariu R.I., Camera de reacție ESC-Q-UAIC, un instrument analitic adecvat pentru studiul chimiei atmosferei, Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, **2018**, Editia I, Universitatea „Alexandru Ioan Cuza”, Iasi, Romania, 31 octombrie – 3 noiembrie.
<http://www.uaic.ro/wp-content/uploads/2018/07/Volum-rezume-Conferinta-Doctoranzi.pdf>
13. Rusu A.M., [Roman C.](#), Arsene C., Olariu R.I., Constanta de viteză a reacției în fază gazoasă a 3-metil-2-buten-1-ol cu radicalii OH la 298 K și presiune atmosferică, Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, **2018**, Editia I, Universitatea „Alexandru Ioan Cuza”, Iasi, Romania, 31 octombrie – 3 noiembrie.
<http://www.uaic.ro/wp-content/uploads/2018/07/Volum-rezume-Conferinta-Doctoranzi.pdf>