

# Lista publicațiilor, granturilor/proiectelor și citărilor

## A1) Cărți publicate/capitole de cărți:

1. Cecilia Arsene și Romeo Iulian Olariu, Cercetarea criminalistica a microurmelor, AIT Laboratories, 185 p., ISBN 978-606-8363-09-7x1, 2011.
2. Cecilia Arsene, Romeo Iulian Olariu, Understanding atmospheric chemistry of hydrocarbons. An introductory approach, 177 p., ISBN: 978-973-702-657-6, TEHNOPRESS, Iasi, 2009.
3. Cecilia Arsene, Romeo Iulian Olariu, Metode analitico-statistice în investigarea sistemelor chimice, 241 p., ISBN: 978-973-730-606-7, PERFORMANTICA, Iasi, 2009.
4. Vione, D., Minero, C., Maurino, V., Olariu, R.I., Arsene, C., Mostofa, K.M.G., Photoinduced Transformation Processes in Surface Waters, pp.309-332, Chapter 9, in Photochemistry: UV/VIS Spectroscopy, Photochemical Reactions and Photosynthesis, Maes, K.J., Willems, J.M., Eds., Series Chemical Engineering Methods and Technology, ISBN: 978-1-61209-506-6, Imprint: Nova Press, 2011 (book chapter).
5. Cecilia Arsene, Romeo Iulian Olariu, Sulfur in atmosfera, Editura Tehnica, Științifică și Didactică, 198 p., ISBN: 973-8188-87-3, CERMI, Iasi, 2003.
6. Romeo Iulian Olariu, Cecilia Arsene, Degradarea atmosferică a hidrocarburilor aromatice, 101 p., ISBN 973-8490-25-1, Ed. PIM, Iasi, 2002.
7. R. Olariu, I. Barnes, K.H. Becker, Kinetics of hydroxylated benzenes, in Atmospheric Diagnostics in Urban Regions, ed. By J.P. Lay, K.H. Becker, W.H. Hauthal, B. Rindone, C. Zetzsch, ISBN 3-503-06070-7, Erich Schmidt Verlag, Berlin, 2001, p113-119 (book chapter).

## A2) Articole apărute

### A2.1) În reviste de specialitate ISI Thomson Reuters, internaționale

1. 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. **ISI 2.946**.
2. 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. **ISI 2.946**
3. 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. **ISI 1.007**.
4. 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. **ISI 2.686**.
5. 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 (3), 322-348, 2015. **ISI 0.706**.
6. Olariu R.I., Barnes I., Bejan I., Arsene C., Vione D., Klotz B., Becker K.H. FT-IR product study of the reactions of NO<sub>3</sub> radicals with ortho -, meta -, and para-cresol, Environmental Science and Technology, 47(14), 7729-7738, 2013. **ISI 5.228**
7. Duncianu M., Olariu R.I., Riffault V., Visez N., Tomas A., Coddeville P. Development of a new flow reactor for kinetic studies. Application to the ozonolysis of a series of alkenes, Journal of Physical Chemistry A, 116(24), 6169-6179, 2012. **ISI 2.946**
8. Dulman V., Cucu-Man S.M., Olariu R.I., Buhaceanu R., Dumitras M., Bunia I. A new heterogeneous catalytic system for decolorization and mineralization of Orange G acid dye based on hydrogen peroxide and a macroporous chelating polymer Dyes and Pigments, 95, 79-88, 2012. **ISI 3.126**
9. Gherasim, C.V., Bourceanu, G., Olariu, R.I., Arsene, C. A novel polymer inclusion membrane applied in chromium (VI) separation from aqueous solutions, Journal of Hazardous Materials, 197, 244-253, 2011. **ISI 4.173**
10. Cernat, R.I., Mihaiescu, 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(9), 1239-1245, 2011. **ISI 2.731**
11. Cecilia Arsene, Romeo Iulian Olariu, Pavlos Zarmpas, Maria Kanakidou, Nikolaos Mihalopoulos, 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. **ISI 3.465**
12. Cecilia Arsene, Davide Vione, Nelu Grinberg, Romeo Iulian Olariu, GCxGC-MS HYPERNATED TECHNIQUES FOR THE ANALYSIS OF VOLATILE ORGANIC COMPOUNDS IN AIR, Journal of Liquid Chromatography & Related Technologies, 34, 1077-1111, 2011. **ISI 0.706**

13. Gherasim, C.V., Bourceanu, G., Olariu, R.I., Arsene, C. Removal of lead(II) from aqueous solutions by a polyvinyl-chloride inclusion membrane without added plasticizer, *Journal of Membrane Science*, 377( 1-2), 167-174, 2011. **ISI 3.85**
14. Stefan Marius, Hritcu Lucian, Mihasan Marius, Pricop Daniela, Gostin Irina, Olariu Romeo-Iulian, Dunca Simona, Melnig Viorel, Enhanced antibacterial effect of silver nanoparticles obtained by electrochemical synthesis in poly(amide-hydroxyurethane) media, *J Mater Sci Mater Med*. 22(4):789-96, 2011. **ISI 2.316**
15. Romeo-Iulian Olariu, Davide Vione, Nelu Grinberg, Cecilia Arsene, Sample preparation for trace analysis by chromatographic methods, *Journal of Liquid Chromatography & Related Technologies*, 33, 9, 1174-1207, 2010. **ISI 0.706**
16. R.M. Pinto, R.I. Olariu, J. Lameiras, F.T. Martins, A.A. Dias, G.J. Langley, P. Rodrigues, C.D. Maycock, J.P. Santos, M.F. Duarte, M.T. Fernandez, M.L. Costa, Study of selected benzyl azides by UV photoelectron spectroscopy and mass spectrometry, *Journal of Molecular Structure* 980, 163–171, 2010. **ISI 1.634**
17. Davide Vione, Swapna Khanra, Simona Cucu Man, Pratap Reddy Maddigapu, Radharani Das, Cecilia Arsene, Romeo-Iulian Olariu, Valter Maurino, Claudio Minero, Inhibition vs. enhancement of the nitrate-induced phototransformation of organic substrates by the OH scavengers bicarbonate and carbonate, *Water Research* 43, 4718 – 4728, 2009. **ISI 4.865**
18. Vione Davide, Lauri Vittorio, Minero Claudio, Maurino Valter, Malandrino Mery Carlotti Maria Eugenia, Olariu Romeo-Iulian, Arsene Cecilia, Photostability and photolability of dissolved organic matter upon irradiation of natural water samples under simulated sunlight, *Aquatic Sciences*, 71 (1), 34-45, 2009. **ISI 2.106**
19. Davide Vione, Valter Maurino, Claudio Minero, Marius Duncianu, Romeo-Iulian Olariu, Cecilia Arsene, Mohamed Sarakha, Gilles Mailhot, Assessing the transformation kinetics of 2- and 4-nitrophenol in the atmospheric aqueous phase. Implications for the distribution of both nitroisomers in the atmosphere, *Atmospheric Environment* 43 (14), 2321-2327, 2009. **ISI 3.465**
20. Vione, D., Maurino, V., Cucu-Man, S., Khanra, S., Arsene, C., Olariu, R., Minero, C., Formation of organobrominated compounds in the presence of bromide under simulated atmospheric aerosol conditions, *Chemistry Sustainable Chemistry*, 1, 197–204, 2008. **ISI 6.827**
21. Arsene Cecilia, Olariu Romeo Iulian, Mihalopoulos Nikolaos, Chemical composition of rainwater in the northeastern Romania, Iasi region (2003-2006), *Atmospheric Environment* 41, 9452 - 9467, 2007. **ISI 3.465**
22. Bejan Iustinian, Barnes Ian, Olariu Romeo, Zhou Shouming, Wiesen Peter, Benter Thorsten, Investigations on the gas-phase photolysis and OH radical kinetics of methyl-2-nitrophenols, *Phys. Chem. Chem. Phys.*, 9, 5686–5692, 2007. **ISI 3.573**
23. F. Innocenti, M. L. Costa, A. A. Dias, M. Goubet, A. Morris, R. I. Olariu, S. Stranges, N. Zema and J. M. Dyke, A study of the NO radical with PE and CIS spectroscopy: investigation of NO( $b^3\Pi$ , 3p) and NO( $b^3\Pi$ , 4p) Rydberg states, *Molecular Physics*, Vol. 105, Nos. 5–7, 771–796, 2007. **ISI 1.819**
24. F. Innocenti, L. Zuin, M. L. Costa, A. A. Dias, M. Goubet, A. Morris, R. I. Olariu, S. Stranges, J. M. Dyke, A study of the CF radical with PE and CIS spectroscopy: investigation of Rydberg states above the first ionization threshold, *Molecular Physics*, Vol. 105, Nos. 5–7, 755–769, 2007. **ISI 1.819**
25. Davide Vione, Gianpaolo Falltti, Valter Maurino, Claudio Minero, Ezio Pelizzetti, Mery Malandrino, Roberto Ajassa, Romeo-Iulian Olariu and Cecilia Arsene, Sources and Sink of Hydroxyl radicals upon Irradiation of Natural Water Samples, *Environmental Science & Technology*, 40, 3775-3781, 2006. **ISI 5.228**
26. Davide Vione, Valter Maurino, Claudio Minero, Ezio Pelizzetti, Mark A. J. Harrison, Romeo-Iulian Olariu and Cecilia Arsene, Photochemical Reactions in the Tropospheric Aqueous Phase and on Particulate Matter. *Chemical Society Reviews*, 35,441-453, 2006. **ISI 28.76**
27. J.P.Santos, M.L. Costa, R.I.Olariu, F.Parente, Theoretical study of the molecular proprieties of benzyle axide, 2-, 3-, 4-methylbenzyl azide, *The European Physical Journal D*, 29, 379-384, 2006. **ISI 1.476**
28. Mark A. J. Harriosn, Silvia Barra, Daniele Borghesi, Davide Vione, Cecilia Arsene, Romeo Iulian Olariu, Nitrated phenols in the atmosphere: a review. *Atmospheric Environment*, 39, 231-248, 2005. **ISI 3.465**
29. R.I. Olariu; I. Bejan, I. Barnes, B. Klotz, K.H. Becker, K. Wirtz, Rate Coefficient for the Gase-Phase Reaction of NO<sub>3</sub> Radicals with Selected Dihydroxybenzene. *International Journal of Chemical Kinetics*, 36, 577-583, 2004. **ISI 1.007**
30. Tomas, A.; Olariu, R.I.; Barnes, I. and Becker, K.H., Kinetics of the Reaction of O<sub>3</sub> with Selected Benzenediols, *International Journal of Chemical Kinetics*, 35 223-230, 2003. **ISI 1.007**

31. Olariu, R.I.; Barnes, I.; Becker, K.H.; Klotz, B. and Mocanu, R., FT-IR study of the ring-retaining products from the reaction of OH radical with phenol, o-, m-, and p-cresol, Atmospheric Environment, 36, 3685-3697, 2002. **ISI 3.465**
32. Geiger, H.; Barnes, I.; Becker, K.H.; Bohn, B.; Brauers, T.; Donner, B.; Dorn, H.P.; Elend, M.; Freitas Dinis, C.M.; Grossmann, D.; Hass, H.; Hein, H.; Hoffmann, A.; Hoppe, L.; Hülsemann, F.; Kley, D.; Klotz, B.; Libuda, H.G.; Maurer, T.; Mihelcic, D.; Moortgat, G.K.; Olariu, R.I.; Neeb, P.; Poppe, D.; Ruppert, L.; Sauer, C.G.; Shestakov, O.; Somnitz, H.; Stockwell, W.; Thürner, L.P.; Wahner, A.; Wiesen, P.; Zabel, F.; Zellner, R. and Setzsch, C., Chemical Mechanism Development: Laboratory Studies and Model Applications, Journal of Atmospheric Chemistry, 42, 323-357, 2002. **ISI 0.985**
33. Wietkamp, C.; Baumbach, G.; Becker, K.H.; Braun-Schoen, S.; Burger, H.; Dinev, S.; Fabian, R.; Frey, S.; Fritzsche, K.; Glaser, J.; Glauer, F.; Herb, F.; Immler, Junkermann, W.; Kanter, H.J.; Lindemann, C.; Loeschner, A.; Mohnen, V.A.; Möller, D.; Neidhart, B.; Olariu, R.I.; Reimer, E.; Schmidt, V.; Schubert, G.; Spittler, M.; Vogt, U.; Weidauer, D.; Windholtz, L.; Wöste, L., Wie richtig sind Lidarmessungen der Ozonverteilung?, Gefahrstoffe-Reinhaltung der Luft, Bd. 60, Nr. 7/8 S. 279/284, ISSN 0344-9629, 2000. **ISI 0.478**
34. Olariu, R.I.; Barnes, I.; Becker, K.H. and Klotz, B., Rate Coefficients for the Gas-Phase Reaction with OH Radicals with Selected Dihydroxybenzenes and Benzoquinones, International Journal of Chemical Kinetics, 32-696-702, 2000. **ISI 1.007**
35. Mangalagiu, G. C.; Mangalagiu, I.I.; Olariu, R.I. and Petrovanu, M.G., 4-Methylpyrimidinium Ylides II: Selective Reactions of Pyrimidinium Ylides with Activated Alkynes, Synthesis, 14, 2047-2050, 2000. **ISI 2.464**

## **A2.2) în reviste de specialitate ISI Thomson Reuters, naționale**

36. 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. **ISI 0.599**
37. 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. **ISI 0.599**
38. Pindaru D.M., Tanase C., Olariu R.I., Arsene C., Extra and intercellular concentrations of water soluble cations from Xanthoria parietina and Phaeophyscia orbicularis lichenized fungi species, Revista de Chimie, 64(7), 715-719, 2013. **ISI 0.599**
39. Ioana Adriana Stefanescu, Lucian Gavrila, Raluca Delia Mocanu, Romeo Iulian Olariu, Cecilia Arsene, Bioremediation Perspective of Bacillus Megaterium Towards Heavy Metals in Environments Enriched with Phosphogypsum, Revista de Chimie, 62 (2), 245-249, 2011. **ISI 0.599**
40. Roberta Ionela Cernat, Raluca Delia Mocanu, Elena Popa, Ion Sandu, Romeo Iulian Olariu, Cecilia Arsene, Investigation of Chemical Parameters in Biological Systems, Revista de Chimie, 61 (10), 1130-1135, 2010. **ISI 0.599**
41. Doina Humelnicu, Cecilia Arsene, Bety Burghel, Mihaela Bertescu, Ionel Humelnicu, Ion Sandu, Dorina Mantu, Romeo-Iulian Olariu, Interaction of Actinide Cations with Heteropolyoxotungstate Ions [SiW<sub>11</sub>O<sub>39</sub>]<sup>8-</sup> and [SiW<sub>12</sub>O<sub>40</sub>]<sup>4-</sup>, Revista de Chimie, 61 (9), 841-844, 2010. **ISI 0.599**
42. Alexandru Cecal, Florica Ionica, Romeo Olariu, Gheorghe Nemtoi, Liliana Airinei, Radiometric method for the study of the steels corrosion, Environmental Engineering and Management Journal, 9(7), 939-944, 2010. **ISI 1.004**
43. Danut Cozma, Catalin Tănase, Cristian Tunsu, Romeo-Iulian Olariu, Alin Ionaș, Aurel Pui, Statistic study of heavy metal distribution In the specific mushrooms from the steril Dumps călimani area, Environmental Engineering and Management Journal, 9 (5), 659-665, 2010. **ISI 1.004**
44. Romeo-Iulian Olariu, Doina Humelnicu, Ion Sandu, Ionel Humelnicu, Cecilia Arsene, Caracterizarea fizico-chimica a unui derivat nou de silice-polioxometalat obtinut prin tratament termic, Revista de Chimie 60 (11), 1216-1219, 2009. **ISI 0.599**
45. Doina Humelnicu, Romeo-Iulian Olariu, Ion Sandu, Ionel Humelnicu, Andrei Victor Sandu, Cecilia Arsene, Studies on Chemical Interferences on Uranium (VI) and Thorium (IV) Reaction with (iso)polyoxometalates, Revista de Chimie 60 (12), 1264-1269, 2009. **ISI 0.599**
46. Vione, D., Casanova, I., Minero, C., Duncianu, M., Olariu, R.-I., Arsene, C., Assessing the potentiality of Romanian surface waters to produce hydroxyl and nitrite radicals, Revista de Chimie 60 (2), 123-126, 2009. **ISI 0.599**
47. Vione, D., Ravizzoli, B., Rinaldi, E., Pettinato, F., Arsene, C., Olariu, R.-I., Studies regarding groundwater quality at rural sites: 1. Estimation of the anthropic factor impact by complementary chemical analyses, Revista de Chimie 60 (3), 237-240, 2009. **ISI 0.599**

48. Vione, D., Rinaldi, E., Minero, C., Maurino, V., Olariu, R.-I., Arsene, C., Studies regarding groundwater quality at rural bites. 2. Photochemical generation of OH and NO<sub>2</sub> radicals upon UV-A irradiation of nitrate-rich groundwater, *Revista de Chimie* 60 (6), 551-554, 2009. **ISI 0.599**
49. R.I.Olariu, D. Humelnicu, C. Arsene, I. Sandu, G. Carja, Synthesis and chemical characterization of new derivative complexes from UO<sub>2</sub><sup>2+</sup> and Th<sup>4+</sup> ions with the (iso)polioxomolybdate and (iso)polioxotungstate clusters *Revista de Chimie*, 59(9), 1052-1056, 2008. **ISI 0.599**
50. D. Humelnicu, R.I. Olariu, I. Sandu, N.Apostolescu, A.V. Sandu, C. Arsene, New heteropolyoxotungstates and heteropolyoxomolybdates containing radioactive ions (uranyl and thorium) in their structure, *Revista de Chimie*, 59(8), 920-925, 2008. **ISI 0.599**
51. Doina Humelnicu, Romeo Iulian Olariu, Alexandru Cecal, Recovery of some inorganic compounds from the sludges resulted after the leaching of uranyl ions from uranium ores, *Journal of Environmental Engineering and Management*, Vol.7, No.4, 401-407, 2008. **ISI 1.004**
52. Tanase Catalin, Aurel Pui, Olariu Romeo si Cozma Danut-Gabriel, Analysis of heavy metals contnt in the soil and in the macromycetes species growing on mine waste dumps, *Revista de Chimie* 59(5), 479-485, 2008. **ISI 0.599**
53. Cecilia Arsene, Ian Barnes, Romeo Iulian Olariu, Karl Heinz Becker, Dimethyl sulphide photo-oxidation at various NO<sub>2</sub> concentrations.1. Product study and mechanistic investigations.*Revue Roumanie de Chimie*, 50(6), 359-369, 2005. **ISI 0.418**
54. Cecilia Arsene, Romeo Iulian Olariu and Ian Barnes, Dimethyl sulphide photo-oxidation at various NO<sub>2</sub> concentrations. 2. Investigation of particle formation, *Revue Roumanie de Chimie*, 50,(6) 487-492, 2005. **ISI 0.418**
55. Suteu D., Paduraru C., Olariu R.I., Utilizarea materialelor celulozice in depoluarea apelor reziduale, *Revista de Chimie*, 49 (7), 467-469, 1998. **ISI 0.599**
56. G. Irimia, R. Mocanu, R. Olariu, I. Sarghie, Quantitative study of Ni (II) and Mn (II) chelates with o-substituted hydroxybenzophenon by extractive-polarographic methods and extractive-photochemical methods, *Revista de Chimie*, 48 (5), 395-398, 1997. **ISI 0.599**

#### **A2.4) Autor principal/ corespondent în articole din reviste de specialitate ISI Thomson Reuters:**

1. 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 (3), 322-348, 2015.
2. 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), 13391342, 2015.
3. Olariu R.I., Barnes I., Bejan I., Arsene C., Vione D., Klotz B., Becker K.H. FT-IR product study of the reactions of NO<sub>3</sub> radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47(14), 7729-7738, 2013.
4. Cecilia Arsene, Davide Vione, Nelu Grinberg, Romeo Iulian Olariu, GCxGC-MS HYPHENATED TECHNIQUES FOR THE ANALYSIS, OF VOLATILE ORGANIC COMPOUNDS IN AIR, *Journal of Liquid Chromatography & Related Technologies*, 34, 1077–1111, 2011.
5. Ioana Adriana Stefanescu, Lucian Gavrilă, Raluca Delia Mocanu, Romeo Iulian Olariu, Cecilia Arsene, Bioremediation Perspective of Bacillus Megaterium Towards Heavy Metals in Environments Enriched with Phosphogypsum, *Revista de Chimie*, 62 (2), 245-249, 2011.
6. Romeo-Iulian Olariu, Davide Vione, Nelu Grinberg, Cecilia Arsene, Sample preparation for trace analysis by chromatographic methods, *Journal of Liquid Chromatography & Related Technologies*, 33, 9, 1174-1207, 2010.
7. Roberta Ionela Cernat, Raluca Delia Mocanu, Elena Popa, Ion Sandu, Romeo Iulian Olariu, Cecilia Arsene, Investigation of Chemical Parameters in Biological Systems, *Revista de Chimie*, 61 (10), 1130-1135, 2010.
8. Doina Humelnicu, Cecilia Arsene, Bety Burghele, Mihaela Bertescu, Ionel Humelnicu, Ion Sandu, Dorina Mantu, Romeo-Iulian Olariu, Interaction of Actinide Cations with Heteropolyoxotungstate Ions [SiW<sub>11</sub>O<sub>39</sub>]<sup>8-</sup> and [SiW<sub>12</sub>O<sub>40</sub>]<sup>4-</sup>, *Revista de Chimie*, 61 (9), 841-844, 2010.
9. Romeo-Iulian Olariu, Doina Humelnicu, Ion Sandu, Ionel Humelnicu, Cecilia Arsene, Caracterizarea fizico-chimica a unui derivat nou de silice-polioxometalat obtinut prin tratament termic, *Revista de Chimie* 60 (11), 1216-1219, 2009.
10. Vione, D., Rinaldi, E., Minero, C., Maurino, V., Olariu, R.-I., Arsene, C., Studies regarding groundwater quality at rural bites. 2. Photochemical generation of OH and NO<sub>2</sub> radicals upon UV-A irradiation of nitrate-rich groundwater, *Revista de Chimie* 60 (6), 551-554, 2009.

11. Vione, D., Ravizzoli, B., Rinaldi, E., Pettinato, F., Arsene, C., Olariu, R.-I., Studies regarding groundwater quality at rural sites: 1. Estimation of the anthropic factor impact by complementary chemical analyses, *Revista de Chimie* 60 (3), 237-240, 2009.
12. R.I.Olariu, D. Humelnicu, C. Arsene, I. Sandu, G. Carja, Synthesis and chemical characterization of new derivative complexes from  $\text{UO}_2^{2+}$  and  $\text{Th}^{4+}$  ions with the (iso)polioxomolybdate and (iso)polioxotungstate clusters *Revista de Chimie*, 59(9), 1052-1056, 2008.
13. R.I. Olariu; I. Bejan, I. Barnes, B. Klotz, K.H. Becker, K. Wirtz, Rate Coefficient for the Gas-Phase Reaction of  $\text{NO}_3$  Radicals with Selected Dihydroxybenzene. *International Journal of Chemical Kinetics*, 36, 577-583, 2004.
14. Olariu, R.I.; Barnes, I.; Becker, K.H.; Klotz, B. and Mocanu, R., FT-IR study of the ring-retaining products from the reaction of OH radical with phenol, o-, m-, and p-cresol, *Atmospheric Environment*, 36, 3685-3697, 2002.
15. Olariu, R.I.; Barnes, I.; Becker, K.H. and Klotz, B., Rate Coefficients for the Gas-Phase Reaction with OH Radicals with Selected Dihydroxybenzenes and Benzoquinones, *International Journal of Chemical Kinetics*, 32-696-702, 2000.

#### **A2.5) Granturi/proiecte câștigate prin competiție -director de proiect național**

1. Proiect **POSCCE-A2-O2.2.1-2009-4, ID 901**, SMIS 13984, Nr. contract: 257 / 28.09.2010, Tema: CENTRU INTEGRAT DE STUDII IN STIINTA MEDIULUI PENTRU REGIUNEA DE DEZVOLTARE NORD-EST / CERNESIM. Valoare proiect **32009409 Lei**.
2. Proiect **PN-II-2007 Cod 405**, contractul de finanțare nr. 9 / 28.09.2007; Cercetări privind reținerea unor radionuclizi din mediu pe sorbenți heteropolioxometalați în scopul determinării lor prin cromatografie ionică. Valoare proiect **826717 Lei**.

#### **A2.6) Granturi/proiecte câștigate prin competiție -director de proiect internațional**

1. Contract **NATO: ESP.EAP.CLG 982287**. Perioada de desfășurare **2006-2008**. Tema: **Pesticides and Organic Nitrate Level in Natural Matrixes from Iasi-Romania**. Beneficiar: **NATO**, în cadrul programului Environmental Security Valoare totală: **10000 EUR**.
2. Contract de cercetare științifică: **EVR1-CT-2001 -40013**; Perioada de desfășurare **2002-2004**. Tema: **Improvements and Access to a Large Simulation Chamber (IALSI)**; Beneficiar: **Comunitatea Europeană** în cadrul subprogramului: Environment and Sustainable Development; Global Change, Climate and Biodiversity; Valoare totală: **17500 EUR**.

#### **A2.7) Granturi/proiecte câștigate prin competiție –membru în echipă la proiecte naționale**

1. **PN-II-RU-TE-2014-4-2461**, Studii privind oxidarea compușilor aromatici substituiți în condiții de atmosferă simulată // Studies on the Oxidation of Substituted AROMATIC Compounds under Simulated Atmospheric Conditions (Acronim: SOS-AROMATIC), Director Proiect CS.III. dr. Iustinian-Gabriel BEJAN. Valoare totală proiect **550000 RON**.
2. **PN-II-ID-PCE-2011-3-0471, 2011-2014**, Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania (EVOLUTION-AIR), Director proiect: Conf. dr. Cecilia Arsene. Valoare totală proiect **1050000 RON**.
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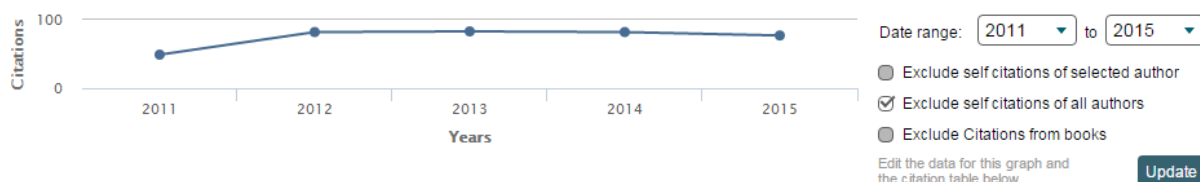
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