

- a) Lista lucrărilor (maxim 10 publicații) considerate a fi cele mai relevante pentru realizările profesionale obținute ulterior conferirii titlului de doctor în știință**
1. 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**.
 2. 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**.
 3. Arsene, C.*, Olariu, R.I., Zampas, 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**.
 4. 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**.
 5. Arsene, C., Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, *Global NEST Journal*, 11, 333-340, **2009**.
 6. Arsene, C.*, Olariu, R.I., Mihalopoulos, N., Chemical composition of rainwater in the north-eastern Romania, Iasi region (2003-2006), *Atmospheric Environment*, 41, 9452-9467, **2007**.
 7. Arsene, C., Bougiatioti, A., Kanakidou, M., Bonsang, B., Mihalopoulos, N., Tropospheric OH and Cl levels deduced from non-methane hydrocarbon measurements in a marine site, *Atmospheric Chemistry and Physics*, 7, 4661-4673, **2007**.
 8. Vione, D., Maurino, V., Minero, C., Pelizzetti, E., Harrison, M.A.J., Olariu, R.I., Arsene, C., Photochemical reactions in the tropospheric aqueous phase and on particulate matter, *Chemical Society Reviews*, 35, 441-453, **2006**.
 9. Vione, D., Falletti, G., Maurino, V., Minero, C., Pelizzetti, E., Malandrino, M., Ajassa, R., Olariu, R.I., Arsene, C., Sources and sinks of hydroxyl radical upon irradiation of natural water samples, *Environmental Science and Technology*, 40, 3775-3781, **2006**.
 10. Arsene, C., Barnes, I., Becker, K.H., Benter, Th., Gas phase reaction of Cl with dimethyl sulphide. Temperature and oxygen partial pressure dependence of the rate constant, *International Journal of Chemical Kinetics*, 36, 66-73, **2005**.
- b) Teza de doctorat**
Atmospheric Degradation Mechanism of Organic Sulphur Compounds
Thesis submitted to the Faculty of Chemistry, Bergische Universität – Gesamthochschule Wuppertal, Germany, for the Degree of Doctor in Science (Dr. rerum naturalium.) by Cecilia Arsene in October **2001**. Thesis defended in December 14th 2001.
- c) -----**
- d) Cărți și capitole în cărți**
Cărți
1. Cecilia Arsene și Romeo Iulian Olariu, Cercetarea criminalistica a microurmelor, AIT Laboratories, 978-606-8363-09-7x1, 185 pp, **2011**.
 2. Cecilia Arsene and 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 și Romeo Iulian Olariu, Metode analitico-statistice în investigarea sistemelor chimice, 241 p., ISBN: 978-973-730-606-7, PERFORMANTICA, Iasi, **2009**.
 4. Cecilia Arsene și Romeo Iulian Olariu, Sulfur in atmosfera, Editura Tehnica, Stiintifica și Didactica, 198 p., ISBN: 973-8188-87-3, CERMI, Iasi, **2003**.
 5. Romeo Iulian Olariu și Cecilia Arsene, Degradarea atmosferică a hidrocarburilor aromatice, 101 p., ISBN 973-8490-25-1, Ed. PIM, Iasi, **2002**.
- Capitole în cărți**
1. 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**.
- e) Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal, articole ISI (altele decât cele de la punctul a)**
11. Pindaru, D.M., Tanase, C., Olariu, R.I., Arsene, C.*, Chemical composition and ions concentrations in Xanthoria Parietina and Phaeosphyscia orbicularis lichenised fungi species from Iasi, north-eastern Romania, *Revista de Chimie*, Bucharest, 64, 807-814, **2013**.
 12. Pindaru, D.M., Tanase, C., Olariu, R.I., Arsene, C.*, Extra and intercellular concentrations of water

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13. Arsene, C., Vione, D., Grinberg, N., Olariu, R.I., GCxGC-MS hyphenated techniques for the analysis, of volatile organic compounds in air, *Journal of Liquid Chromatography & Related Technologies*, 34, 1077-1111, **2011**.
14. Gherasim, C.V.I., 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**.
15. Stefanescu, I.A., Gavrilă, L., Mocanu, R.D., Olariu, R.I., Arsene, C.*, Bioremediation perspective of *Bacillus Megaterium* towards heavy metals in environments enriched with phosphogypsum, *Revista de Chimie*, 62, 245-249, **2011**.
16. Olariu, R.I., Arsene, C., Humelnicu, D., Duncianu, M., Mantu, D., Investigation on environmental radionuclide retention on hetero-polioxo-metallic sorbents for radionuclide analysis by ionic chromatography, *International Journal of Conservation Science*, 1, 248, **2010**.
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20. Humelnicu, D., Olariu, R.I., Sandu, I., Humelnicu, I., Sandu, A.V., Arsene, C., Studies on chemical interferences on uranium (VI) and thorium (IV) reaction with (iso)polyoxometalates, *Revista de Chimie*, 60, 1264-1269, **2009**.
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24. Vione, D., Maurino, V., Minero, C., Duncianu, M., Olariu, R.I., Arsene, C., Sarakha, M., Mailhot, G., 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, 2321-2327, **2009**.
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- f) Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate**
1. Arsene, C.*, Bougiatioti, A., Mihalopoulos, N., Non-methane hydrocarbons variability in the Eastern Mediterranean, pp. 197-206, in *Regional Climate Variability and its Impacts in the Mediterranean Area*, Mellouki, A., Ravishankara, A.R., eds, NATO Science Series, IV. Earth and Environmental Sciences, Vol. 79, ISBN: 978-1-4020-6428-9, Springer, Netherlands, **2007**.
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 3. Arsene, C., Olariu, R.I., Violaki, K., Mihalopoulos, N., Dissolved organic nitrogen deposition on land in the northeastern part of Romania, Workshop on agricultural air quality. State of the science, Aneja, V.P., Schlesinger, W.H., Knighton, R., Jennings, G., Niyogi, D., Gillian, W., Duke, C.S., eds., Potomac, Maryland USA, pp. 464-467, **2006**.
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 9. Arsene, C., Barnes, I., Becker, K.H., Mocanu, R., Product studies on the photo-oxidation of dimethyl sulphoxide (DMSO:CH₃S(O)CH₃), in *EC Cluster, Chemical Processes and Mechanisms and EUROTRAC-2, Chemical Mechanism Development*, Rossi, M.J., Rossi, E.M., eds., Switzerland, pp. 17-20, **2000**.
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g) Alte lucrări și contribuții științifice

Articole științifice publicate în extenso în reviste internaționale și naționale indexate BDI

1. Pindaru, D.M., Tanase, C., Arsene, C., Olariu, R.I., Micromorphological and chemical aspects of some lichenized fungi species, Journal of Plant Development, 19, 73-82, **2012**.
2. Olariu, R.I., Arsene, C., Humelnicu, D., Vasilache, V., Solid-phase extraction and spectrophotometric determination of ultra trace thorium (IV) in water samples, International Journal of Criminal Investigation, 1, 25-30, **2011**.
3. Humelnicu, D., Olariu, R.I., Arsene, C., Bertescu, M., Burghel, B.D., A comparative study on the removal of uranyl ions from artificially enriched radioactive waters using clays from Romania, Analele Stiintifice ale Universitatii Al.I. Cuza Iasi, Geologie, LVI, 1, 85-93, **2010**.
4. Cernat, R.I., Butnaru, L., Mihaescu, T., Olariu, R.I., Arsene, C., Concentratiile ceruloplasminei si cuprului in serul pacientilor cu tuberculoza pulmonara activa, Ceruloplasmin and copper concentrations in patients with active pulmonary tuberculosis, Revista Romana de Medicina de Laborator, Romanian Review of Laboratory Medicine, ISSN 1841-6624, 18, (2/4), 13-14, **2010**.
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9. Olariu, R.I., Barnes, I., Arsene, C., Becker, K.H., Wirtz, K., Maldonado, C., Ponds, M., Studies on the atmospheric oxidation of phenol: I. Gas-phase product analysis, pp. 16-26, in The European Photoreactor EUPHORE, 3RD REPORT 2000, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, **2001**.
10. Olariu, R.I., Barnes, I., Arsene, C., Becker, K.H., Wirtz, K., Studies on the atmospheric oxidation of phenol: II. Secondary organic aerosol formation, pp. 27-38, in The European Photoreactor EUPHORE, 3RD REPORT 2000, Barnes, I., Brockmann, K., eds., Compiled and Produced by Institute of Physical Chemistry, Bergische Universitat Wuppertal, Germany, **2001**.
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Lucrări susținute la manifestări științifice (conferințe, congrese, simpozioane, seminarii și ateliere de lucru), străinătate

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2. Arsene, C., Olariu, R.I., Ponzo, M., Vione, D., Fast reversed-phase ion-pair liquid chromatography in the simultaneous analysis of nitrite and nitrate in rainwater samples collected in the north-eastern Romania over 2003-2008, pp. 28, 9th Csaba Horváth Medal Award Symposium, Hartford, Connecticut, USA, **2009**.
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4. Arsene, C., Bougiatioti, A., Mihalopoulos, N., Indirect evidence of chlorine atom concentration in the lower troposphere of the Eastern Mediterranean, European Geosciences Union, SRef-ID: 1607-7962/gra/EGU2007-A-00538, Geophysical Research Abstracts, Vol. 9, 00538, **2007**.
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3. Arsene, C., Non-methane hydrocarbon measurements. Implications for the atmospheric photochemistry, pp. 361, Book of abstracts, A XXX- a Conferinta Nationala de Chimie, Calimanesti-Valcea, Romania, ISBN 973750124-1, **2008**.
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5. Arsene, C., Bougiatioti, E., Mihalopoulos, N., Development of a gas chromatographic method (GC) for non-methane hydrocarbons (NMHCs) measurements in the gas phase, pp. 377, A XXIX- a Conferinta Nationala de Chimie, Calimanesti-Valcea, Romania, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, **2006**.
6. Arsene, C., Barnes, I., Albu, M., Olariu, R.I., Bejan, I., Wirtz, K., Gas phase reactions of organic sulphur compounds with Cl atoms and NO₃ radicals, pp. 376, A XXIX- a Conferinta Nationala de Chimie, Calimanesti-Valcea, Romania, ISBN-10 973-750-049-0; ISBN-13 978-973-750-049-6, **2006**.
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