

a) Contribution list (max. 10 publications) assigned as the most relevant for the professional achievements obtained post PhD entitlement

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**.
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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) PhD Thesis

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) Books and books chapters

Books

1. Cecilia Arsene and Romeo Iulian Olariu, Research on microtrace in criminality, 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 and Romeo Iulian Olariu, Analytical-statistical methods in the investigation of chemical systems, 241 p., ISBN: 978-973-730-606-7, PERFORMANTICA, Iasi, **2009**.
4. Cecilia Arsene and Romeo Iulian Olariu, Sulphur in the atmosphere, Editura Tehnica, Stiintifica si Didactica, 198 p., ISBN: 973-8188-87-3, CERMI, Iasi, **2003**.
5. Romeo Iulian Olariu and Cecilia Arsene, Atmospheric degradation of aromatic hydrocarbons, 101 p., ISBN 973-8490-25-1, Ed. PIM, Iasi, **2002**.

Books chapters

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) Articles/research studies, published in international scientific journals, ISI quoted articles (other than those presented under a section)

11. Pindaru, D.M., Tanase, C., Olariu, R.I., Arsene, C.*, Chemical composition and ions concentrations in Xanthoria Parietina and Phaeosphaeria 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

- soluble cations from Xanthoria Parietina and Phaeosphyscia orbicularis lichenised fungi species, *Revista de Chimie*, Bucharest, 64, 715-719, **2013**.
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 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**.
 17. Cernat, R.I., Mocanu, R.D., Popa, E., Sandu, I., Olariu, R.I., Arsene, C.*, Investigation of chemical parameters in biological systems, *Revista de Chimie*, 61, 1130-1135, **2010**.
 18. Humelnicu, D., Arsene, C., Burghel, B., Bertescu, M., Humelnicu, I., Sandu, I., Olariu, R.I., Interaction of actinide cations with heteropolytungstate ions $[\text{SiW}_{11}\text{O}_{39}]^{8-}$ and $[\text{SiW}_{12}\text{O}_{40}]^{4-}$, *Revista de Chimie*, 61, 841-844, **2010**.
 19. 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**.
 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**.
 21. Olariu, R.I., Humelnicu, D., Sandu, I., Humelnicu, I., Arsene, C.*, Physico-chemical characterization of a new silica-polyoxometalate thermally modified unit, *Revista de Chimie*, 60, 1216-1219, **2009**.
 22. 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**.
 23. 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_2 radicals upon UV-A irradiation of nitrate-rich groundwater, *Revista de Chimie*, 60, 551-554, **2009**.
 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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 27. 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, 123-126, **2009**.
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36. Onofrei, T., Arsene, C., Hurduc, N., A non-isothermal kinetic study upon the Pb(II) sorption on chemically-modified celluloses, *Cellulose Chemistry and Technology*, 36, 507-514, **2002**.
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f) Publications in enlarged format, published in editorial work specific for major international conferences

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**.
2. Arsene, C.*, Mihalopoulos, N., Olariu, R.I., Atmospheric wet deposition monitoring in Iasi, Romania, pp. 369-377, in *Environmental Simulation Chambers - Application to Atmospheric Chemical Processes*, Barnes, I., Rudzinski, K. J., eds., NATO Science Series, IV. Earth and Environmental Sciences, Vol. 62, ISBN: 1-4020-4231-0, Springer, Netherlands, **2006**.
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**.
4. Olariu, R.I., Duncianu, M., Arsene, C., Wirtz, K., Determination of photolysis frequencies for small carbonyl compounds using the EUPHORE chamber facilities, pp. 121-128, in *Environmental Simulation Chambers - Application to Atmospheric Chemical Processes*, Barnes, I., Rudzinski, K. J., eds., NATO Science Series, IV. Earth and Environmental Sciences, Vol. 62, ISBN: 1-4020-4231-0, Springer, Netherlands, **2006**.
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g) Other publications and scientific contributions

Scientific articles published in enlarged format in international and national BDI indexed journals

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., Burghiele, 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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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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Other contributions to international scientific manifestations (conferences, congress, symposia, seminars and workshops)

1. Pindaru D., Tanase, C., Olariu, R.I., Arsene, C., Atmospheric deposition of organic and inorganic nitrogen in the north-eastern Romania, 2010 International Aerosol Conference, P2K19, pp. 80, Helsinki, Finland, **2010**.
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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1. Marcu, M., Olariu, R.I., Arsene, C., Speciation and temporal variability of iron in wet and dry deposition in Iasi, north-eastern Romania, The XXXI-st Romanian Chemistry Conference, ISBN 978-973-750-194-3, pp. 237, **2010**.
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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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