

Anexa 2a

Titlu proiect: Evaluation of Volatile Organics in the Lower/Upper Troposphere - their Impact on the Oxidizing, Noxious and Aerosol Influx Capacity in Romania

Categoria de proiect: PCE (PN-II-PCE-2011-3-0471)

Contractul de finanțare: Nr. 200/05.10.2011

Manager proiect: Prof. univ. dr. habil. Cecilia ARSENE

Lista rezultate

Nr. crt.	NUME AUTORI	TITLUL ARTICOLULUI/ CĂRȚII/ COMUNICĂRII ȘTIINȚIFICE	REVISTA / VOLUMUL/EDITURA IN CARE A APARUT / CONFERINȚA LA CARE S-A COMUNICAT	ANUL PUBLICĂRII/ COMUNICĂRII
ARTICOLE ISI				
1	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 Sciences, 81, 100-109	2015
2	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	International Journal of Chemical Kinetics, 47, 596-605	2015
3	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
4	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 methyl-2-nitrophenol isomers	Journal of Physical Chemistry A, 119, 4735-4745	2015
5	Negru, A.G., Arsene, C., Zbancioc, A.M., Mangalagiu, I.I., Olariu, R.I.	Physico-chemical behaviour of newly synthesised macrocyclic compounds. A reality between expectations and experimental evidences	Revista de Chimie Bucharest, 66, 1339-1342	2015
6	Olariu, R.I., Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H.	FTIR product study of the reactions of NO ₃ radicals with ortho-, meta-, and para-cresol	Environmental Science and Technology, 47, 7729-7738	2013
7	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, 808-814	2013
8	Pindaru, D.M., Tanase, C., Olariu, R.I., Arsene, C.	Extra and intercellular concentrations of water soluble cations from Xanthoria Parietina	Revista de Chimie, Bucharest, 64, 715-719	2013

		and <i>Phaeosphyscia orbicularis</i> lichenised fungi species		
9	Cucu-Man, S.M., Steinnes, E.	Analysis of selected biomonitors to evaluate the suitability for their complementary use in monitoring trace element atmospheric deposition	Environmental Monitoring Assessment, DOI 10.1007/s10661-013-3135-1	2013
ARTICOLE ALTE BAZE DE DATE				
1	Arsene, C	Chemical composition of aerosols, a fragile barrier between healing and wounding, keynote within the International Conference on Medical Physics August 03-05, 2015, Birmingham, UK	Journal of Nuclear Medicine and Radiation Therapy, 6:4	2015
2	Negru, A.G., Zbancioc, G., Mangalagiu, I., Arsene, C., Olariu, R.I.	Physico-chemical behaviour of newly synthesized organic compounds. A reality between expectations and experimental evidences	Acta Chimica Iasi, 22(2), DOI: 102478/achi-2014-0014	2014
3	Petrea-Ioneasa, M., Olariu, R.I., Arsene, C.	Water soluble organic carbon in aerosols from Iasi, north-eastern Romania	Acta Chimica Iasi, 22(2), pp. 256, DOI: 102478/achi-2014-0014	2014
4	Arsene, C., Olariu, R.I., Duncianu, M., Riffault, V., Tomas, A.,	Flow reactor ozonolysis studies of selected dimethyl hexenes in the gas phase	Supplement of the Acta Chimica Iasi journal, ISSN 2067-2438, ISSN (online): 2067 - 2446, pp. 24	2013
5	Olariu, R.I., Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H.	Night chemistry of hydroxyl(methyl)benzenes: New directions in atmospheric chemistry at the A.I.Cuza University of Iasi	Supplement of the Acta Chimica Iasi journal, ISSN 2067-2438, ISSN (online): 2067 - 2446, pp. 18	2013
CARTI				
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DOCUMENTATIE TEHNICA, BREVETE				
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COMUNICARI STIINTIFICE NATIONALE				
1	Bejan, I., Arsene, C., Olariu, R.I.	Atmospheric chemistry investigations in a newly designed gas phase simulation chamber (ESC-Q-UAIC)	3rd International Conference on Analytical Chemistry (ROICAC), Iasi, Romania, 28-31 August	2016
2	Galon (Negru), G.A., Olariu, R.I., Arsene, C.	Atmospheric behavior and size distribution of water soluble acetate, formate and oxalate ions in urban aerosols from Iasi, Romania	The International Conference CHIMIA 2016 "New Trends in Applied Chemistry", Constanta, Romania, May	2016
3	Galon (Negru), G.A., Pruna, I., Olariu, R.I., Arsene, C.	Mono- and multimodal distributions of water soluble ionic species in urban particulate matter from Iasi, Romania	Sesiunea de comunicari stiintifice a studentilor, masteranzilor și doctoranzilor (SCSSMD), Chimia - frontiera deschisa spre cunoastere, editia VII, pp. 4, Iasi, Romania, 24	2016

4	Galon (Negru), G.A., Olariu, R.I., Arsene, C.	Trace Water Soluble Ions in Fine Atmospheric Particles from Iasi, North-Eastern Romania	Iunie Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2016, Florescu, M., Raicu, V., LeGac, S., Turcu, I., Maerty, J.L., Eds., pp. 116, Transilvania University Press, ISSN 2360-3461	2016
5	Galon (Negru), G.A., Olariu, R.I., Arsene, C.	Particulate matter and gaseous pollutants variability in Iasi urban area, north-eastern Romania	12 th International Conference on Colloid and Surface-Chemistry, ICCSC-2016, pp. 53, Iasi, Romania, 16-18 May	2016
6	Galon (Negru), G.A., Olariu, R.I., Arsene, C.	Mass concentrations and chemical composition of size resolved atmospheric aerosols in the north-eastern Romania, Iasi region	Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), pp. 35, Cluj-Napoca, Romania, 12-14 May	2016
7	Mardare (Balusescu), G., Olariu, R.I., Arsene, C.	Methoxy phenols and other structural constituents in <i>Datura innoxia</i> seeds. Mechanistic approaches	The International Conference CHIMIA 2016 "New Trends in Applied Chemistry", Constanta, Romania, May	2016
8	Mardare (Balusescu), G., Olariu, R.I., Arsene, C.	Gas Chromatography/Mass Spectrometry (GC/MS) as Challenging Problems Solving Microanalytical Tools	Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, IC-ANMBES 2016, Florescu, M., Raicu, V., LeGac, S., Turcu, I., Maerty, J.L., Eds., pp. 121, Transilvania University Press, ISSN 2360-3461	2016
9	Mardare (Balusescu), G., Olariu, R.I., Arsene, C.	Sterols in <i>Datura innoxia</i> as potential key source specific tracers for organic components in ambient atmospheric aerosol particles	12 th International Conference on Colloid and Surface-Chemistry, ICCSC-2016, pp. 68, Iasi, Romania, 16-18 May	2016
10	Mardare (Balusescu), G., Olariu, R.I., Arsene, C.	Gas chromatography-mass spectrometry analysis of a lignin marker and an indirect contributor to secondary organic aerosols in the atmosphere: p- vinylguaiaicol in <i>Datura innoxia</i>	Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), pp. 33, Cluj-Napoca, Romania, 12-14 May	2016
11	Marin, S.L., Galon (Negru), A.G., Mardare (Balusescu), G., Bejan, I., Olariu, R.I., Arsene, C.	Gas-phase kinetic study of OH radical reactions with mesitylene in the newly designed ESCQ-UAIC chamber	Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE I), pp. 34,	2016

			Cluj-Napoca, Romania, 12-14 May	
12	Soroaga, L.V., Olariu, R.I., Galon (Negru), A.G., Arsene, C.	Elemental and morphological analysis of airborne particulate matter collected in Iasi, north-eastern Romania	Sesiunea de comunicari stiintifice a studentilor, masteranzilor și doctoranzilor (SCSSMD), Chimia - frontiera deschisa spre cunoastere, editia VII, pp. 6, Iasi, Romania, 24 Iunie	2016
13	Olariu, R.I., Arsene, C., Barnes, I., Klotz, B., Becker, K.H.	Gas-phase absorption cross sections of selected aromatic hydrocarbons in the IR spectral ranges	"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, Book of Abstracts, pp. 7, oral communication	2014
14	Petrea-Ioneasa, M., Olariu, R.I., Arsene, C.	Water soluble organic carbon in aerosols from Iasi, north-eastern Romania	"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference Iasi, Romania, Book of Abstracts, pp. 31, poster	2014
15	Negru, A.G., Zbancioc, G., Mangalagiu, I., Arsene, C., Olariu, R.I.	Physico-chemical behaviour of newly synthesized organic compounds. A reality between expectations and experimental evidences	3rd French-Romanian Colloquim on Medicinal Chemistry, pp. 51, poster	2014
16	Arsene, C., Olariu, R.I., Duncianu, M., Riffault, V., Tomas, A.,	Flow reactor ozonolysis studies of selected dimethyl hexenes in the gas phase	"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry,, Book of Abstract, Supplement of the Acta Chimica Iasi journal, ISSSN 2067-2438, ISSN (online): 2067 – 2446, pp. 24	2013
17	Olariu, R.I., Barnes, I., Bejan, I., Arsene, C., Vione, D., Klotz, B., Becker, K.H.	Night chemistry of hydroxyl(methyl)benzenes: New directions in atmospheric chemistry at the Al.I.Cuza University of Iasi	"Alexandru Ioan Cuza" University Days, Faculty of Chemistry Conference & Mini-Hot-Conference: „Recent Achievements in Organic and Supramolecular Chemistry,, Book of Abstract, Supplement of the Acta Chimica Iasi journal, ISSSN 2067-2438, ISSN (online): 2067 – 2446, pp. 18	2013
COMUNICARI STIINTIFICE INTERNATIONALE				
1	Arsene, C.	Chemical composition of aerosols, a fragile barrier between healing and wounding	keynote within the International Conference on Medical Physics, August 03-05, 2015, Birmingham, UK, in Journal of Nuclear	2015

			Medicine and Radiation Therapy, 6:4	
2	Bejan, I., Marin, S.L., Duncianu, M., Arsene, C., Olariu, R.I.	Validation of a newly designed simulation chamber (ESCQ-UAIC) using gas phase investigations on aromatic compounds	24 th International Symposium on Gas Kinetics and Related Phenomena, York, UK, 17 th -21 st July	2016
	ATLASE, DICTIONARE DE SPECIALITATE			
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	ALTE PUBLICATII			
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Lista achizițiilor realizate în cadrul proiectului

Denumire echipament	Categorie de achiziții* : (numai mijloace fixe)	Valoarea (lei)	Locație
Upgrade la Ion cromatograf Dionex ICS3000 Nr.inv.225243	1	116556.89	CERNESIM/UAIC
Anexa la spectrofotometrul VCD Chiral IR – 2X Nr.inv.335982	1	28879.60	CERNESIM/UAIC

Categorie de achiziții* :

1. Echipamente și aparatură de cercetare
2. Rețele de comunicații specializate
3. Baze de date și informații de specialitate
4. Echipamente și mijloace moderne de documentare și comunicare
5. Alte categorii

**Director proiect,
Prof. univ. dr. habil. Cecilia Arsene**

