

Lista de lucrări științifice

a) Lista celor 10 lucrări relevante pentru realizările profesionale:

1. Grira, A., Amarandei, C., Romanias, M.N., El Dib, G., Canosa, A., Arsene, C., Bejan, I.G., Olariu, R.I.,* Coddeville, P., Tomas, A., Kinetic Measurements of Cl Atom Reactions with C-5-C-8 Unsaturated Alcohols, *Atmosphere*, 11, 256;1-15, 2020. (FI- 2.046, AIS – 0.496)
2. Galon-Negru, A.G., Olariu, R.I., Arsene, C., Size-resolved measurements of PM2.5 water-soluble elements in Iasi, north-eastern Romania: Seasonality, source apportionment and potential implications for human health, *Science of the Total Environment*, 695, 2019. (FI – 5.589, AIS – 1.062)
3. Giorgiana Galon-Negru, A., Iulian Olariu, R., Arsene, C., Chemical characteristics of size-resolved atmospheric aerosols in Iasi, north-eastern Romania: Nitrogen-containing inorganic compounds control aerosol chemistry in the area, *Atmospheric Chemistry and Physics* 18, 5879-5904, 2018. (FI-5.668, AIS – 1.596)
4. Olariu R.I.*, Barnes I., Bejan I., Arsene C., Vione D., Klotz B., Becker K.H. FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47(14), 7729-7738, 2013. (FI-5.481, AIS – 1.698)
5. 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. (FI -2.771, AIS – 0.827)
6. Cecilia Arsene, Romeo Iulian Olariu, Pavlos Zampas, 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. (IF – 3.465, AIS – 1.03)
7. Davide Vione, Swapan 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. (IF-4.355, AIS – 1.188)
8. 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. (FI-2.549, AIS-1.00)
9. 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. (IF-13.69)
10. 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. (IF-2.352)

c) Cărți și capitole în 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).

d) articole/studii publicate în extenso, în reviste din circuitul științific internațional

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1. Grira, A., Amarandei, C., Romanias, M.N., El Dib, G., Canosa, A., Arsene, C., Bejan, I.G., Olariu, R.I.,* Coddeville, P., Tomas, A., Kinetic Measurements of Cl Atom Reactions with C-5-C-8 Unsaturated Alcohols, *Atmosphere*, 11, 256;1-15, 2020.
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3. Coman-Babusanu A.C., Olariu R.I., Butnaru E., Arsene C., Dissipation kinetics of tebuconazole on *Malus domestica* (Golden Delicious and Jonathan) in an apple orchard from north-eastern Romania, *Journal of Liquid Chromatography and Related Technologies*, 42(17-18), 582- 592, 2019.
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5. Giorgiana Galon-Negru, A., Iulian Olariu, R., Arsene, C., Chemical characteristics of size-resolved atmospheric aerosols in Iasi, north-eastern Romania: Nitrogen-containing inorganic compounds control aerosol chemistry in the area, *Atmospheric Chemistry and Physics* 18, 5879-5904, 2018.
6. Dragan, E.S., Humelnicu, D., Dinu, M.V., Olariu, R.I., Kinetics, equilibrium modeling, and thermodynamics on removal of Cr(VI) ions from aqueous solution using novel composites with strong base anion exchanger microspheres embedded into chitosan/poly(vinyl amine) cryogels, *Chemical Engineering Journal*, 330, 675-691, 2017.
7. 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.
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9. 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.
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12. Olariu R.I., Barnes I., Bejan I., Arsene C., Vione D., Klotz B., Becker K.H. FT-IR product study of the reactions of NO₃ radicals with ortho -, meta -, and para-cresol, *Environmental Science and Technology*, 47(14), 7729-7738, 2013.
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14. 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.
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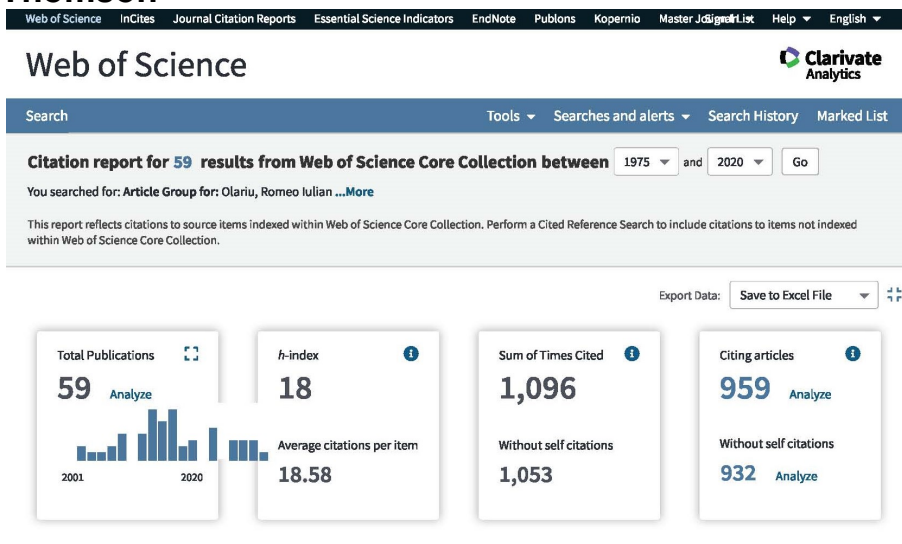
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<input type="checkbox"/> 1 Size-resolved measurements of PM _{2.5} water-soluble...	2019						2	2		2
<input type="checkbox"/> 2 Dissipation kinetics of tebuconazole on Malus domestica (Gol...	2019							0		0
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<input type="checkbox"/> 4 Effects of pretreatment methods on the enamel surface improv...	2019							0		0
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<input type="checkbox"/> 6 Chemical characteristics of size-resolved atmospheric aeroso...	2018						2	2		2
<input type="checkbox"/> 7 Authentication and evaluation of the technique of minting th...	2017			1				1		1
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<input type="checkbox"/>	14	The mechanism of pyrolysis of benzyl azide: Spectroscopic ev...	2015	1		2		1	1			4	5	
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<input type="checkbox"/>	16	Applications of liquid chromatographic techniques in the che...	2015	1		1	1					2	3	
<input type="checkbox"/>	17	FT-IR product study of the reactions of NO ₂ radical...	2013	1	1	3	2	3	1			10	11	
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<input type="checkbox"/>	20	A new heterogeneous catalytic system for decolorization and ...	2012	16	4	2	4	4	1			15	31	
<input type="checkbox"/>	21	Development of a new flow reactor for kinetic studies. Appli...	2012	3		1	3					4	7	
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<input type="checkbox"/>	26	Ion composition of coarse and fine particles in Iasi, north-...	2011	9	2		7	3				12	21	
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<input type="checkbox"/>	29	Investigation on environmental radionuclide retention on het...	2010									0	0	
<input type="checkbox"/>	30	Study of selected benzyl azides by UV photoelectron spectros...	2010	4	3	1						4	8	
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<input type="checkbox"/>	32	Radiometric method for the study of the steels corrosion	2010									0	0	
<input type="checkbox"/>	33	Statistical study of heavy metal distribution in the specifi...	2010	4		1	1					2	6	
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<input type="checkbox"/>	35	Interaction of actinide cations with heteropolyoxotungstate ...	2010									0	0	
<input type="checkbox"/>	36	Assessing the transformation kinetics of 2- and 4-nitrophen...	2009	5	3	2	3	1	2			11	16	
<input type="checkbox"/>	37	Photostability and photolability of dissolved organic matter...	2009	8	1	1			2			4	12	
<input type="checkbox"/>	38	Studies on chemical interferences on uranium (VI) and thoriu...	2009			1						1	1	
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<input type="checkbox"/>	41	Studies regarding groundwater quality at rural bites. 2. Pho...	2009	3								0	3	
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<input type="checkbox"/>	49	Chemical composition of rainwater in the northeastern Romani...	2007	40	3	2	3	3	1			12	52	
		Documents	Citations	<2016	2016	2017	2018	2019	2020			Subtotal	>2020	Total
			Total	617	114	103	130	121	73			541	0	1158
<input type="checkbox"/>	50	Investigations on the gas-phase photolysis and OH radical ki...	2007	12	4	3	3	4				14	26	
<input type="checkbox"/>	51	Sources and sinks of hydroxyl radicals upon irradiation of n...	2006	97	19	19	17	19	12			86	183	
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<input type="checkbox"/>	53	Theoretical study of the molecular properties of benzyl azid...	2006	3								0	3	
<input type="checkbox"/>	54	Dimethyl sulphide photo-oxidation at various NO ₂ ...	2005	2								0	2	
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<input type="checkbox"/>	56	Nitrated phenols in the atmosphere: A review	2005	89	23	17	18	19	11			88	177	
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<input type="checkbox"/>	64	Utilizarea materialelor celulozice în depoluarea apelor rezi...	1998	1								0	1	

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g) Alte lucrări și contribuții științifice

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