

1 Activitatea didactică și profesională (A1)

1.1 Cărți sau capitole de carte

Cărți		
Nr. crt.	Titlu	k _{pi}
1.	Cecilia Arsene , Romeo Iulian Olariu, Cercetarea criminalistica a microurmelor, ISBN: 978-606-8363-09-7×1, AIT Laboratories, 2011 .	3
2.	Cecilia Arsene , Romeo Iulian Olariu, Metode analitico-statistice in investigarea sistemelor chimice, ISBN: 978-973-730-606-7, PERFORMANTICA, Iasi, 2009 .	3
3.	Cecilia Arsene , Romeo Iulian Olariu, Understanding atmospheric chemistry of hydrocarbons. An introductory approach, ISBN: 978-973-702-657-6, TEHNOPRESS, Iasi, 2009 .	3
4.	Cecilia Arsene , Romeo Iulian Olariu, Sulfur in atmosfera, ISBN: 973-8188-87-3, Editura Tehnica, Stiintifica si Didactica CERMI, Iasi, 2003 .	3
5.	Romeo Iulian Olariu, Cecilia Arsene , Degradarea atmosferica a hidrocarburilor aromatice, ISBN 973-8490-25-1, Ed. PIM, Iasi, 2002 .	3
6.	Cecilia Arsene , Thorsten Benter, Atmospheric degradation mechanism of organic sulphur compounds, ISSN 1436-2198, Bericht Nr. 57, 2002 .	3
Capitole de cărți		
7.	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).	3
n	= 7	
$\sum n_{1i} k_{1i}$	= 7 × 3 = 21	
Total A1	21 puncte	

2 Activitatea de cercetare

2.1 Articole în reviste cotate ISI Thomson Reuters (factor de impact după document primit de la Decanatul Facultății de Chimie: Impact-Factor-2013.pdf)

Internaționale		
Număr contribuție	Contribuția	Factor impact
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, 322-348, 2015 .	0.638
2.	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, accepted to be published in the Journal of Aerosol Science, JAEROSCI-D-14-00179, december 2014 .	2.705
3.	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 .	5.257
4.	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 .	0.638
5.	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 .	2.610
6.	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 .	3.110
7.	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 .	3.925
8.	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 .	4.093
9.	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 .	0.638
10.	Arsene, C. , Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, Global NEST Journal, 11, 333-340, 2009 .	0.698
11.	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 .	4.655
12.	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 .	3.110
13.	Vione, D., Lauri, V., Minero, C., Maurino, V., Malandrino, M., Carlotti, M.E., Olariu, R.I., Arsene, C. , Photostability and photolability of dissolved organic matter upon irradiation of natural water samples under simulated sunlight, Aquatic Sciences, 71, 34-45, 2009 .	2.602
14.	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 .	7.475
15.	Drochioiu, G., Arsene, C. , Murariu, M., Oniscu, C., Analysis of cyanogens with resorcinol and picrate, Food and Chemical Toxicology, 46, 3540-3545, 2008 .	3.010

Conf. univ. dr. habil. Cecilia ARSENE

16.	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 .	3.110
17.	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 .	5.510
18.	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 Discussions, 7, 6329-6356, 2007 .	0.000
19.	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, 79, 197-206, 2007 .	0.000
20.	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 .	24.892
21.	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 .	5.257
22.	Arsene, C.* , Mihalopoulos, N., Olariu, R.I., Atmospheric wet deposition monitoring in Iasi, Romania, in Environmental Simulation Chambers - Application to Atmospheric Chemical Processes, Barnes, I., Rudzinski, K. J., eds., NATO Science Series, IV. Earth and Environmental Sciences, 62, 369-377, 2006 .	0.000
23.	Olariu, R.I., Duncianu, M., Arsene, C. , Wirtz, K., Determination of photolysis frequencies for small carbonyl compounds using the EUPHORE chamber facilities, in Environmental Simulation Chambers - Application to Atmospheric Chemical Processes, Barnes, I., Rudzinski, K. J., eds., NATO Science Series, IV. Earth and Environmental Sciences, 62, 121-128, 2006 .	0.000
24.	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 .	1.187
25.	Harrison, M.A.J., Barra, S., Borghesi, D., Vione, D., Arsene, C. , Olariu, R.I., Nitrated phenols in the atmosphere. A review, Atmospheric Environment, 39, 231-248, 2005 .	3.110
26.	Arsene, C. , Barnes, I., Becker, K.H., Schneider, W., Wallington, T., Mihalopoulos, N., Patroescu-Klotz, I., Formation of methane sulphinic acid in the gas phase OH-radical initiated oxidation of dimethyl sulphoxide, Environmental Science and Technology, 36, 5155-5163, 2002 .	5.257
27.	Arsene, C. , Barnes, I., Becker, K.H., Mocanu, R., FT-IR product study in the photo-oxidation of dimethyl sulphide in the presence of NO _x . Temperature dependence, Atmospheric Environment, 35, 3769-3780, 2001 .	3.110
28.	Arsene, C. , Barnes, I., Becker, K.H., FT-IR product study of the photo-oxidation of dimethyl sulphide. Temperature and O ₂ partial pressure dependence, Physical Chemistry Chemical Physics, 1, 5463-5470, 1999 .	3.829
29.	Onofrei, T., Arsene, C. , Mita, C., Sorption and separation of Cu(II), Co(II) and Ni(II) on 1,4'-azobenzylcellulose-2-naphthol, Southern Brazilian Journal of Chemistry, 5, 79-85, 1997 .	0.000
Naționale		
30.	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 .	0.538
31.	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 .	0.538

32.	Stefanescu, I.A., Gavrilă, L., Mocanu, R.D., Olariu, R.I., Arsene, C.* , Bioremediation perspective of <i>Bacillus Megaterium</i> towards heavy metals in environments enriched with phosphogypsum, Revista de Chimie, 62, 245-249, 2011 .	0.538
33.	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 .	0.000
34.	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 .	0.538
35.	Humelnicu, D., Arsene, C. , Burghel, B., Bertescu, M., Humelnicu, I., Sandu, I., Mantu, D., 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 .	0.538
36.	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 .	0.538
37.	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 .	0.538
38.	Vione, D., Rinaldi, E., Minero, C., Maurino, V., Olariu, R.I., Arsene, C. , Studies regarding groundwater quality at rural sites. 2. Photochemical generation of OH and NO ₂ radicals upon UV-A irradiation of nitrate-rich groundwater, Revista de Chimie, 60, 551-554, 2009 .	0.538
39.	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, 237-240, 2009 .	0.538
40.	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 .	0.538
41.	Olariu, R.I., Humelnicu, D., Arsene, C. , Sandu, I., Carja, G., Synthesis and chemical characterisation of new derivative complexes from UO ₂ ²⁺ and Th ⁴⁺ ions with (iso)polyoxomolybdate and (iso)polyoxotungstate clusters, Revista de Chimie, 59, 1052-1056, 2008 .	0.538
42.	Humelnicu, D., Olariu, R.I., Sandu, I., Apostolescu, N., Sandu, A.V., Arsene, C. , New heteropolyoxotungstates and heteropolyoxomolybdates containing radioactive ions (uranyl and thorium) in their structure, Revista de Chimie, 59, 920-925, 2008 .	0.538
43.	Arsene, C. , Olariu, R.I., Barnes, I., Dimethyl sulphide photo-oxidation at various NO ₂ concentrations. 2. Investigation on particle formation, Revue Roumaine de Chimie, 50, 485-490, 2005 .	0.331
44.	Arsene, C. , Barnes, I., Olariu, R.I., Becker, K.H., Dimethyl sulphide photo-oxidation at various NO ₂ concentrations. 1. Product study and mechanistic investigations, Revue Roumaine de Chimie, 50, 359-369, 2005 .	0.331
45.	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 .	0.825
46.	Onofrei, T., Hurduc, N., Arsene, C. , A non-isothermal kinetic study on the sorption of elements from group IIA on 4-(benzylcellulose)-5-azo-8-hydroxyquinoline, Cellulose Chemistry and Technology, 35, 235-241, 2001 .	0.825
47.	Onofrei, T., Arsene, C. , Mita, C., Agache, C., Sorption of elements from group IIA on 4-(benzylcellulose)-5-azo-8-hydroxyquinoline, Cellulose Chemistry and Technology, 35, 15-23, 2001 .	0.825
48.	Onofrei, T., Hurduc, N., Arsene, C. , Ionescu, D., Sorption of Cu(II), Co(II) and Ni(II) on 1-(4'-azobenzylcellulose)-2-naphthol. Thermogravimetric characterisation, Cellulose Chemistry and Technology, 34, 261-268, 2000 .	0.825
n_{tot}	= 48	
n_{reviste internationale}	= 29	

factor de impact cumulat	= 110.884
autor principal/corespondent	= 26 (indicate prin * sau culoarea albastru) din care 16 internaționale
$\sum n_{21i} k_{21i}$	= 48 × 1 = 48

Notă: * - corresponding author

2.2 Granturi/proiecte câștigate prin competiție

Director proiecte internaționale/naționale		
Număr	Proiect	k _{pi}
1.	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), UEFISCDI. 1050000 RON.(241000,00 EUR)	4
2.	FP-7/PEOPLE-MERG-CT-2007-203934. 2007-2010. Intensive Characterisation of Atmospheric Aerosols in the north-eastern Romania at various Urban Sites (ICAARUS). Environment and Sustainable Development. Global Change, Climate and Biodiversity. 45000,00 EUR	4
3.	NATO ESP.EAP.CLG.98258/2007. 2007-2009. Chemical Composition of Atmospheric Aerosols in the North-Eastern Romania. Environmental Security Through Science. 20000,00 EUR	4
4.	Bilateral Romania-Italy: C18002/09.01.2006. 2006-2008. Environmental Quality Understanding Inferred by Laboratory Investigation of the Borne Pollutants Released by Industrial and Agricultural Activities in a Small Part of Romania (EQUILIBRIAAS-PRO). 15000,00 EUR from the Resort Romanian and Italian Ministeria	4
5.	Bilateral Romania-Greece: C18873/28.12.2005. 2006-2007. Chemical Composition of Aerosols in an Urban Atmosphere (CCAUA). 12000,00 EUR from the Resort Greek Ministerium	4
6.	Marie-Curie: FP-6/MEIF-CT-2005-009578. 2005-2007. Evaluation of the Climatic Impact of the Tropospheric Aerosols in the Mediterranean Area (ECITAMA). Environment and Sustainable Development. Global Change, Climate and Biodeversity. 136834,50 EUR	4
Membru în echipe internaționale/naționale		
7.	POSCCE-A2-O2.2.1-2009-4, ID 901, SMIS 13984, Contract no.: 257/28.09.2010; Subject: Centru integrat de studii in stiinta mediului pentru regiunea de dezvoltare nord-est/CERNESIM. 32009409,00 RON	2
8.	POSDRU/86/1.2/S/62307, Fondul Social European prin Programul Operational Sectorial Dezvoltarea Resurselor Umane, Axa prioritară 1, Educatia si formarea profesionala in sprijinul cresterii economice si dezvoltarii societatii bazate pe cunoastere, Domeniul major de interventie 1.2 Calitate in invatamantul superior, Promovarea cercetării științifice din domeniul criminalisticii în activitatea judiciară, 8457976,00 RON	2
9.	Bilateral România-Austria, Capacități, Modul III, 304/27.04.2009, 01.05.2009-30.11.2010, Sources and physico-chemical characteristics of atmospheric aerosols at central and east European sites, ARCEE, 52600 RON.	2
10.	PN II/405/2007-2010. Cercetări privind reținerea unor radionuclizi din mediu pe sorbenți heteropolioxometalați în scopul determinării lor prin cromatografie ionică. MCT-ROMANIA. 826717,18 RON	2
11.	INFRAS: 210/04.10.2004. Crearea unei infrastructuri pentru monitorizarea și biomonitorizarea compușilor toxici prezenți în mediu și pentru urmărirea efectului acestora asupra organismelor vii. Acreditarea unui laborator de analiza metalelor grele și a poluanților organici persistenți (POPs). MCT-ROMANIA, 279168,86 RON.	2
12.	EVR1-CT-2001-40013. 2003-2004. Energy, Environment and Sustainable Development, Processes Relevant to Global Change-Improvements and Access to a Large Simulation Chamber, IALSI.	2
13.	EVK2-CT-1999-00033. 2000-2003. Evaluation of the Climatic Impact of Dimethyl Sulphide (EL-CID). Environment and Sustainable Development. Global Change, Climate and Biodiversity.	2
14.	ENV4-CT97-0410. 1998-1999. Dimethyl Sulphide (DMS): Oxidation Mechanism in Relation to Aerosols and Climate (DOMAC). Environment and Sustainable Development. Global Change, Climate and Biodiversity.	2
15.	Projekt No.: 07 AF 22. 1998-2001. Yields of Aerosol Precursors Substances Formed by DMS-Oxidation as a Function of Atmospheric Conditions, GSF-Forschungszentrum für Umwelt und Gesundheit, Projektträger des BMBF für	2

Umwelt und Klimaforschung, Germany.			
n_{221}	= 6	n_{222}	= 9
$\sum n_{221}k_{221}$	= 6 × 4 = 24	$\sum n_{222}k_{222}$	= 9 × 2 = 18
$\sum (n_{21}k_{21} + n_{221}k_{221} + n_{222}k_{222})$		= 46 + 24 + 18 = 88	
Total A2		88 puncte	

3 Lista de verificare a îndeplinirii standardului Recunoașterea și impactul activității (A3); 3.1 Citări în reviste ISI și BDI

Publicația care se citează	Referința bibliografică a publicației care citează	k _{pi} (ISI)
A novel polymer inclusion membrane applied in chromium (VI) separation from aqueous solutions Gherasim, C.V., Bourceanu, G., Olariu, R.I., <u>Arsene, C.</u> JOURNAL OF HAZARDOUS MATERIALS 197, 244-253, 2011		
1.	Algarra, M., Vázquez, M.I., Alonso, B., Casado, C.M., Casado, J., Benavente, J., Characterization of an engineered cellulose based membrane by thiol dendrimer for heavy metals removal, Chemical Engineering Journal, 253, pp. 472-477, 2014	0.5
2.	Vázquez, M.I., Romero, V., Fontàs, C., Anticó, E., Benavente, J., Polymer inclusion membranes (PIMs) with the ionic liquid (IL) Aliquat 336 as extractant: Effect of base polymer and IL concentration on their physical-chemical and elastic characteristics, Journal of Membrane Science, 455, pp. 312-319, 2014	0.5
3.	Gajewski, P., Przewoźna, M., Bogacki, M.B., Influence of Carrier Concentration (1-Alkylimidazols and TOA) on Citric Acid Transport across Polymer Inclusion Membranes (PIM), Separation Science and Technology, 49(11), pp. 1736-1744, 2014	0.5
4.	Xiao, Y., Liang, H., Chen, W., Wang, Z., Synthesis and adsorption behavior of chitosan-coated MnFe ₂ O ₄ nanoparticles for trace heavy metal ions removal, Applied Surface Science, 285, 498-504, 2013	0.5
5.	Abdul-Halim, N.-S., Whitten, P.G., Nghiem, L.D., Characterising poly (vinyl chloride)/Aliquat 336 polymer inclusion membranes: Evidence of phase separation and its role in metal extraction, Separation and Purification Technology, 119, pp. 14-18, 2013	0.5
6.	Kiswandono, A.A., Siswanta, D., Aprilita, N.H., Santosa, S.J., Hayashita, T., Extending the life time of polymer inclusion membrane containing copoly(eugenol-DVB) as carrier for phenol transport, Indonesian Journal of Chemistry, 13 (3), pp. 254-261, 2013	0.5
7.	Onac, C., Alpoguz, H.K., Akceylan, E., Facilitated transport of Cr(VI) through polymer inclusion membrane system containing calix[4]arene derivative as carrier agent, Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, 50 (10), pp. 1013-1021, 2013	0.5
8.	Kagaya, S., Ryokan, Y., Cattrall, R.W., Kolev, S.D., Stability studies of poly(vinyl chloride)-based polymer inclusion membranes containing Aliquat 336 as a carrier, Separation and Purification Technology, 101, 69-75, 2012	0.5
9.	Almeida, M.I.G.S., Cattrall, R.W., Kolev, S.D., Recent trends in extraction and transport of metal ions using polymer inclusion membranes (PIMs), Journal of Membrane Science, 415-416, 9-23, 2012	0.5
10.	Gizli, N., Cinarli, S., Demircioglu, M., Characterization of poly(vinylchloride) (PVC) based cation exchange membranes prepared with ionic liquid, Separation and Purification Technology, 97, 96-107, 2012	0.5
Serum trace metal and ceruloplasmin variability in individuals treated for pulmonary tuberculosis Cernat, R.I., Mihaescu, T., Vornicu, M. Vione, D., Olariu, R.I., <u>Arsene, C.</u> INTERNATIONAL JOURNAL OF TUBERCULOSIS AND LUNG DISEASES 15, 1239-1245, 2011		
11.	De Moraes, M.L., Ramalho, D.M.D.P., Delogo, K.N., (...), Kritski, A.L., De Oliveira, M.M., Association of serum levels of iron, copper, and zinc, and inflammatory markers with bacteriological sputum conversion during tuberculosis treatment, Biological Trace Element Research, 160 (2), pp. 176-184, 2014	0.5
12.	Lodha, R., Mukherjee, A., Singh, V., Singh, S., Friis, H., Faurholt-Jepsen, D., Bhatnagar, S., Saini, S., Kabra, S.K., Grewal, H.M.S., Aneja, S., Arya, T., Chandra, J., Dutta, A.K., Doherty, T.M., Hesseling, A.C., Marais, B., Parashar, D., Prajapati, S., Purohit, K., Saini, D., Singh, R.R., Effect of micronutrient	0.5

	supplementation on treatment outcomes in children with intrathoracic tuberculosis: A randomized controlled trial, American Journal of Clinical Nutrition, 100 (5), pp. 1287-1297, 2014	
13.	Haddad, M.R., Macri, C.J., Holmes, C.S., Goldstein, D.S., Jacobson, B.E., Centeno, J.A., Popek, E.J., Gahl, W.A., Kaler, S.G., In utero copper treatment for Menkes disease associated with a severe ATP7A mutation, Molecular Genetics and Metabolism 107(1-2), 222-228, 2012	0.5
Removal of lead(II) from aqueous solutions by a polyvinyl-chloride inclusion membrane without added plasticizer Gherasim, C.V.I., Bourceanu, G., Olariu, R.I., <u>Arsene, C.</u> JOURNAL OF MEMBRANE SCIENCE 377(1-2), pp. 167-174, 2011		
14.	Suren, S., Pancharoen, U., Kheawhom, S., Simultaneous extraction and stripping of lead ions via a hollow fiber supported liquid membrane: Experiment and modeling, Journal of Industrial and Engineering Chemistry, 20 (4), pp. 2584-2593, 2014	0.5
15.	Vázquez, M.I., Romero, V., Fontàs, C., Anticó, E., Benavente, J., Polymer inclusion membranes (PIMs) with the ionic liquid (IL) Aliquat 336 as extractant: Effect of base polymer and IL concentration on their physical-chemical and elastic characteristics, Journal of Membrane Science, 455, pp. 312-319, 2014	0.5
16.	Liu, W., Liu, Y., Tao, Y., Yu, Y., Jiang, H., Lian, H., Comparative study of adsorption of Pb(II) on native garlic peel and mercerized garlic peel, Environmental Science and Pollution Research, 21 (3), pp. 2054-2063, 2014	0.5
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n	= 469	
$\sum n_{3i} k_{3i}$	= 469 × 0.5 = 234.5	
Total A3	234.5 puncte	