FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE ÎN VEDEREA OBȚINERII ATESTATULUI DE ABILITARE PENTRU DOMENIUL FUNDAMENTAL MATEMATICĂ ŞI ŞTIINȚE ALE NATURII, DOMENIUL ŞTIINȚIFIC CHIMIE

(în conformitate cu ORDINUL nr. 4478 publicat în Monitorul Oficial 448/27.06.2011)

(abilitare)

Nr. crt.	Criteriul	Standard minim	Valoare obținută	Observație
1	$S_{med} = \frac{1}{\max(N_{S,} N_{Ref})} \sum_{i=1}^{N_s} \frac{s_i}{n_i}$	≥ 0,4	0,630	Criteriul este îndeplinit
2	$C_{med} = \frac{1}{\max(N_{C,} N_{Ref})} \sum_{i=1}^{N_C} c_i$	≥ 5	14,750	Criteriul este îndeplinit
3	$P = \sum_i \frac{s_i}{p_i}$	≥ 12	15,047	Criteriul este îndeplinit

Conf. Dr. Cecilia ARSENE

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1. Lista de verificare a îndeplinirii standardului S_{med}

Numar publicatie	Referinta bibliografica	s_i	n_i	s_i/n_i
1.	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**.	**3.290**	**7**	
2.	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**.	**3.046**	**4**	
3.	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.	**1.083**	**6**	
4.	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**.	**3.591**	**4**	
5.	Arsene, C.*, Olariu, R.I., Zarmpas, 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**.	**1.868**	**5**	
6.	Arsene, C.*, Bougiatioti, A., Mihalopoulos, N., Sources and variability of non-methane hydrocarbons in the Eastern Mediterranean, Global NEST Journal, 11, 333-340, **2009**.	**0.424**	**3**	
7.	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**.	**3.693**	**9**	
8.	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**.	**1.868**	**8**	
9.	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**.	**1.646**	**8**	
10.	Drochioiu, G., Arsene, C., Murariu, M., Oniscu, C., Analysis of cyanogens with resorcinol and picrate, Food and Chemical Toxicology, 46, 3540-3545, **2008**.	**2.024**	**4**	
11.	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**.	**6.282**	**7**	
12.	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.	**1.868**	**3**	

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13.	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.	**2.354**	**5**	
14.	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.	**27.755**	**7**	
15.	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**.	**3.290**	**9**	
16.	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**.	**0.659**	**4**	
17.	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**.	**1.868**	**6**	
18.	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.	**3.290**	**7**	
19.	Arsene, C., Barnes, I., Becker, K.H., Mocanu, R., FT-IR product study in the photo-oxidation of dimethyl sulphide in the presence of NOx. Temperature dependence, Atmospheric Environment, 35, 3769-3780, 2001.	**1.868**	**4**	
20.	Arsene, C., Barnes, I., Becker, K.H., FT-IR product study of the photo-oxidation of dimethyl sulphide. Temperature and O2 partial pressure dependence, Physical Chemistry Chemical Physics, 1, 5463-5470, 1999.	**2.057**	**3**	

$$\sum_{i=1}^{N_S} \frac{s_i}{n_i} = 12{,}600$$

Ns = 20

$$S_{med} = \frac{1}{\max(N_S, N_{Ref})} \sum_{i=1}^{N_s} \frac{s_i}{n_i}$$

S_{med} = 0,630

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2. Lista de verificare a îndeplinirii standardului C_{med}

Numarul publicatiei care se citeaza	Referinta bibliografica a publicatiei k care citeaza	s_k
1) A novel polymer inclusion membrane applied in chromium (VI) separation from aqueous solutions Gherasim, C.V., Bourceanu, G., Olariu, R.I., Arsene, C. JOURNAL OF HAZARDOUS MATERIALS 197, 244-253, 2011		
1.	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	2.634
2.	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, 415-4169-2, 2012	3.591
3.	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	2.634
2) Serum trace metal and ceruloplasmin variability in individuals treated for pulmonary tuberculosis Cernat, R.I., Mihaescu, T., Vornicu, M. Vione, D., Olariu, R.I., Arsene, C.* INTERNATIONAL JOURNAL OF TUBERCULOSIS AND LUNG DISEASES 15, 1239-1245, 2011		
4.	Haddad, M.R., Macri, C.J., Holmes, C.S., Goldstein, D.S., Jacobson, B.E., Centeno, J.A., Popek, E.J., (...), 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	1.161
3) 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., Arsene, C. JOURNAL OF MEMBRANE SCIENCE 377(1-2), pp. 167-174, 2011		
5.	Suren, S., Pancharoen, U., Thamphiphit, N., Leepipatpiboon, N., A Generating Function applied on a reaction model for the selective separation of Pb(II) and Hg(II) via HFSLM, Journal of Membrane Science, 448, 23-33, 2013	3.591
6.	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	3.591
7.	Kavitha, N., Palanivelu, K., Recovery of copper(II) through polymer inclusion membrane with di (2-ethylhexyl) phosphoric acid as carrier from e-waste, Journal of Membrane Science, 415-416, 663-669, 2012	3.591
8.	Suren, S., Wongsawa, T., Pancharoen, U., Prapasawat, T., Lothongkum, A.W., Uphill transport and mathematical model of Pb(II) from dilute synthetic lead-containing solutions across hollow fiber supported liquid membrane, Chemical Engineering Journal, 191, 503-511, 2012	2.416
9.	Guo, L., Zhang, J., Zhang, D., Liu, Y., Deng, Y., Chen, J., Preparation of poly(vinylidene fluoride-co-tetrafluoroethylene)-based polymer inclusion membrane using bifunctional ionic liquid extractant for Cr(VI) transport, Industrial and Engineering Chemistry Research, 51(6), 2714-2722, 2012	1.876
4) Ion composition of coarse and fine particles in Iasi, north-eastern Romania: Implications for aerosols chemistry in the area Arsene C.*, Olariu R.I., Zarmpas P., Kanakidou M., Mihalopoulos N. ATMOSPHERIC ENVIRONMENT 45 (4), pp. 906-916, 2011		
10.	Laongsri, B., Harrison, R.M., Atmospheric behaviour of particulate oxalate at UK urban background and rural sites, Atmospheric Environment, 71, 319-326, 2013	1.868

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11.	Squizzato, S., Masiol, M., Brunelli, A., Pistollato, S., Tarabotti, E., Rampazzo, G., Pavoni, B., Factors determining the formation of secondary inorganic aerosol: A case study in the Po Valley (Italy), Atmospheric Chemistry and Physics, 13(4), 1927-1939, 2013	2.354
5) GCxGC-MS hyphenated techniques for the analysis, of volatile organic compounds in air Arsene,C., Vione, D., Grinberg, N., Olariu, R.I. JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES 34, 1077–1111, 2011		
12.	Alam, M.S., West, C.E., Scarlett, A.G., Rowland, S.J., Harrison, R.M., Application of 2D-GCMS reveals many industrial chemicals in airborne particulate matter, Atmospheric Environment, 65, 101-111, 2013	1.868
13.	Laskin, A., Laskin, J., Nizkorodov, S.A., Mass spectrometric approaches for chemical □ulphide□ization of atmospheric aerosols: Critical review of the most recent advances, Environmental Chemistry, 9(3), 163-189, 2012	1.690
6) Sample preparation for trace analysis by chromatographic methods Olariu R.I., Vione D., Grinberg N., Arsene C.* JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES 33(9-12), 1174-1207, 2010		
14.	Nogueira, J.M.F., Novel sorption-based methodologies for static microextraction analysis: A review on SBSE and related techniques, Analytica Chimica Acta, 757, 1-10, 2012	1.940
15.	Park, S.T., Kim, J., Choi, K., Lee, H.R., Chung, D.S., Headspace-single drop microextraction with a commercial capillary electrophoresis instrument, Electrophoresis, 33(19-20), 2961-2968, 2012	1.168
16.	Groskreutz, S.R., Swenson, M.M., Secor, L.B., Stoll, D.R., Selective comprehensive multi-dimensional separation for resolution enhancement in high performance liquid chromatography. Part I: Principles and instrumentation, Journal of Chromatography A, 1228, 31-40, 2012	1.721
17.	Martín, J., Buchberger, W., Alonso, E., Himmelsbach, M., Aparicio, I., Comparison of different extraction methods for the determination of statin drugs in wastewater and river water by HPLC/Q-TOF-MS, Talanta, 85(1), 607-615, 2011	1.550
7) Sources and variability of non-methane hydrocarbons in the eastern mediterranean Arsene, C.*, Bougiatioti, A., Mihalopoulos, N. GLOBAL NEST JOURNAL 11(3), 333-340, 2009		
18.	Koigoora, S., Ahmad, I., Pallela, R., Janapala, V.R., Spatial variation of potentially toxic elements in different grain size fractions of marine sediments from Gulf of Mannar, India, Environmental Monitoring and Assessment, 185(9), 7581-7589, 2013	0.711
8) Inhibition vs. enhancement of the nitrate-induced phototransformation of organic substrates by the OH scavengers bicarbonate and carbonate Vione, D., Khanra, S., Cucu Man, S., Maddigapu, P.R., Das, R., Arsene, C., Olariu, R.I., Maurino, V., Minero, C. WATER RESEARCH 43, 4718 – 4728, 2009		
19.	Lin, A.Y.C., Wang, X.H., Lee, W.N., Phototransformation determines the fate of 5-fluorouracil and cyclophosphamide in natural surface waters, Environmental Science and Technology, 47(9), 4104-4112, 2013	3.290
20.	Wang, X.H., Lin, A.Y.C., Phototransformation of cephalosporin antibiotics in an aqueous environment results in higher toxicity, Environmental Science and Technology, 46(22), 12417-12426, 2012	3.290
21.	Franke, D., Hamilton, M.W., Ziegler, S.E., Variation in the photochemical lability of dissolved organic matter in a large boreal watershed, Aquatic Sciences, 74(4), 751-768, 2012	1.646
22.	Ji, Y., Zeng, C., Ferronato, C., Chovelon, J.M., Yang, X., Nitrate-induced photodegradation of atenolol in aqueous solution: Kinetics, toxicity and degradation pathways, Chemosphere, 88(5), 644-649, 2012	1.554

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23.	Despotovic, V.N., Abramovic, B.F., Šojic, D.V., Kler, S.J., Dalmacija, M.B., Bjelica, L.J., Orcic, D.Z., Photocatalytic degradation of herbicide quinmerac in various types of natural water, Water, Air, and Soil Pollution, 223(6), 3009-3020, 2012	1.350
24.	Dell'Arciprete, M.L., Soler, J.M., Santos-Juanes, L., Arques, A., Mártire, D.O., Furlong, J.P., Gonzalez, M.C., Reactivity of neonicotinoid insecticides with carbonate radicals, Water Research, 46(11), 3479-3489, 2012	3.693
25.	Mao, L., Meng, C., Zeng, C., Ji, Y., Yang, X., Gao, S., The effect of nitrate, bicarbonate and natural organic matter on the degradation of sunscreen agent p-aminobenzoic acid by simulated solar irradiation, Science of the Total Environment, 409(24), 5376-5381, 2011	1.801
26.	Klamerth, N., Malato, S., Maldonado, M.I., Ageera, A., Fernandez-Alba, A., Modified photo-Fenton for degradation of emerging contaminants in municipal wastewater effluents, Catalysis Today, 161(1), 241-246, 2011	2.643
9) Photostability and photolability of dissolved organic matter upon irradiation of natural water samples under simulated sunlight Vione, D., Lauri, V., Minero, C., Maurino, V., Malandrino, M., Carlotti, M.E., Olariu, R.I., Arsene, C. AQUATIC SCIENCES 71(1), 34-45, 2009		
27.	Zepp, R.G., Erickson Iii, D.J., Paul, N.D., Sulzberger, B., Effects of solar UV radiation and climate change on biogeochemical cycling: interactions and feedbacks, Photochemical & Photobiological Sciences, 10(2), 261-279, 2011	1.279
28.	Andrady A, Aucamp PJ, Bais AF, Environmental effects of ozone depletion and its interactions with climate change: progress report, 2009, Photochemical & Photobiological Sciences, 9(3), 275-294, 2010	1.279
29.	Camp, J.V., George, D.B., Wells, M.J.M., Arce, P.E., Monitoring advanced oxidation of Suwannee River fulvic acid, Environmental Chemistry, 7(3), 225-231, 2010	1.690
10) Analysis of cyanogens with resorcinol and picrate Drochioiu, G., Arsene, C., Murariu, M., Oniscu, C. FOOD AND CHEMICAL TOXICOLOGY 46, 3540-3545, 2008		
30.	Hutanu, C.A.D., Zaharia, M., Pintilie, O., Quenching of tryptophan fluorescence in the presence of 2,4-DNP, 2,6-DNP, 2,4-DNA and DNOC and their mechanism of toxicity, Molecules, 18(2), 2266-2280, 2013	1.176
31.	Fung, T.C., Grimwood, K., Shimmon, R., Spindler, X., Maynard, P., Lennard, C., Roux, C., Investigation of hydrogen cyanide generation from the cyanoacrylate fuming process used for latent fingermark detection, Forensic Science International 212(1-3), 143-149, 2011	1.100
Formation of organobrominated compounds in the presence of bromide under simulated atmospheric aerosol conditions Vione, D., Maurino, V, Cucu-Man, S., Khanra, S., Arsene, C., Olariu, R., Minero, C. CHEMISTRY SUSTAINABLE CHEMISTRY 1, 197–204, 2008		
32.	Ofner, J., Balzer, N., Buxmann, J., Grothe, H., Schmitt-Kopplin, Ph., Platt, U., Zetzsch, C., Halogenation processes of secondary organic aerosol and implications on halogen release mechanisms, Atmospheric Chemistry and Physics, 12(13), 5787-5806, 2012	2.354
11) Chemical composition of rainwater in the northeastern Romania, Iasi region (2003-2006) Arsene C.*, Olariu R.I., Mihalopoulos N. ATMOSPHERIC ENVIRONMENT 41(40), 9452-9467, (2007)		
33.	Montoya-Mayor, R., Fernandez-Espinosa, A.J., Seijo-Delgado, I., Ternero-Rodriguez, M., Determination of soluble ultra-trace metals and metalloids in rainwater and atmospheric deposition fluxes: A 2-year survey and assessment, Chemosphere, 92(8), 882-891, 2013	1.554
34.	Jaunat, J., Celle-Jeanton, H., Huneau, F., Dupuy, A., Le Coustumer, P., Characterisation of the input signal to aquifers in the French Basque Country: Emphasis on parameters influencing the chemical and isotopic composition of	3.400

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	recharge waters, Journal of Hydrology, 496, 57-70, 2013	
35.	Al-Khashman, O.A., Jaradat, A.Q., Salameh, E., Five-year monitoring study of chemical characteristics of Wet atmospheric precipitation in the southern region of Jordan, Environmental Monitoring and Assessment, 185(7), 5715-5727, 2013	0.711
36.	Cuoco, E., Spagnuolo, A., Balagizi, C., De Francesco, S., Tassi, F., Vaselli, O., Tedesco, D., Impact of volcanic emissions on rainwater chemistry: The case of Mt. Nyiragongo in the Virunga volcanic region (DRC), Journal of Geochemical Exploration, 125, 69-79, 2013	0.881
37.	Taguchi, S., Murai, K., Takamatsu, M., Hayakawa, Y., Tamizu, S., Kuwata, M., Katayama, Y., Kuramitz, H., Hata, N., Interpretation of the concentrations of aldehydes in rainwater over a wide area and local areas of Japan by some dominant factors, Atmospheric Environment, 61, 588-596, 2012	1.868
38.	Izquierdo, R., Avila, A., Alarcon, M., Trajectory statistical analysis of atmospheric transport patterns and trends in precipitation chemistry of a rural site in NE Spain in 1984-2009, Atmospheric Environment 61, 400-408, 2012	1.868
39.	Izquierdo, R., Avila, A., Comparison of collection methods to determine atmospheric deposition in a rural Mediterranean site (NE Spain), Journal of Atmospheric Chemistry, 69(4), 351-368, 2012	1.197
40.	Santos, P.S.M., Otero, M., Santos, E.B.H., Duarte, A.C., Chemical composition of rainwater at a coastal town on the southwest of Europe: What changes in 20 years?, Science of the Total Environment, 409(18), 3548-3553, 2011	1.801
41.	Montoya-Mayor, R., Fernandez-Espinosa, A.J., Ternero-Rodriguez, M., Assessment of the sequential principal component analysis chemometric tool to identify the soluble atmospheric pollutants in rainwater, Analytical and Bioanalytical Chemistry, 399(6), 2031-2041, 2011	1.864
42.	Cheng, M.C., You, C.F., Lin, F.J., Chung, C.H., Huang, K.F., Seasonal variation in long-range transported dust to a subtropical islet offshore northern Taiwan: Chemical composition and Sr isotopic evidence in rainwater, Atmospheric Environment, 44(28), 3386-3393, 2010	1.868
43.	Dubiella-Jackowska, A., Astel, A., Polkowska, Z., Staszek, W., Kudaak, B., Atmospheric and Surface Water Pollution Interpretation in the Gdansk Beltway Impact Range by the Use of Multivariate Analysis, Clean-Soil Air Water, 38(9), 865-876, 2010	0.982
44.	Cheng, M.C., You, C.F., Sources of major ions and heavy metals in rainwater associated with typhoon events in southwestern Taiwan Author(s): Source: Journal of Geochemical Exploration, 105(3), 106-116, 2010	0.881
45.	Chatterjee, A., Jayaraman, A., Rao, T.N., Raha, S., In-cloud and below-cloud scavenging of aerosol ionic species over a tropical rural atmosphere in India, Journal of Atmospheric Chemistry, 66(1-2), 27-40, 2010	1.197
46.	Liu, Z., Dreybrodt, W., Wang, H., A new direction in effective accounting for the atmospheric CO2 budget: Considering the combined action of carbonate dissolution, the global water cycle and photosynthetic uptake of DIC by aquatic organisms, Earth-Science Reviews, 99(3-4), 162-172, 2010	5.790
47.	Calvo, A.I., Olmo, F.J., Lyamani, H., Alados-Arboledas, L., Castro, A., Fernandez-Raga, M., Fraile, R., Chemical composition of wet precipitation at the background EMEP station in Viznar (Granada, Spain) (2002-2006), Conference Information: 15th International Conference on Clouds and Precipitation, JUL 07-11, 2008 Int Commission on Clouds & Precipitation, Cancun, Mexico, Atmospheric Research, 96(2-3), 408-420, 2010	0.973
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48.	Papadimitriou, V.C., Lazarou, Y.G., Talukdar, R.K., Burkholder, J.B. Atmospheric chemistry of CF_3CFCH_2 and (Z)-$CF_3CFCHFCl$ and NO_3 rate coefficients, Cl reaction product yields, and thermochemical calculations, Journal of Physical Chemistry A, 115(2), 167-181, 2011	1.316

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50.	Gorham, K.A., Blake, N.J., VanCuren, R.A., Fuelberg, H.E., Meinardi, S., Blake, D.R., Seasonal and diurnal measurements of carbon monoxide and nonmethane hydrocarbons at Mt. Wilson, California: Indirect evidence of atomic Cl in the Los Angeles basin, Atmospheric Environment, 44(19), 2271-2279, 2010	1.868
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54.	Helmig, D., Tanner, D.M., Honrath, R.E., Owen, R.C., Parrish, D.D., Nonmethane hydrocarbons at Pico Mountain, Azores: 1. Oxidation chemistry in the North Atlantic region, Journal of Geophysical Research: Atmosphere, 113(D20), Article no. D20S91, 2008	2.242
13) Photochemical reactions in the tropospheric aqueous phase and on particulate matter Vione, D., Maurino, V., Minero, C., Pelizzetti, E., Harrison, M.A.J., Olariu, R.I., Arsene, C. CHEMICAL SOCIETY REVIEWS 35 (5): 441-453 2006		
55.	Forrester, S.M., Knopf, D.A., Photosensitised heterogeneous oxidation kinetics of biomass burning aerosol surrogates by ozone using an irradiated rectangular channel flow reactor, Atmospheric Chemistry and Physics, 13(13), 6507-6522, 2013	2.354
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$\sum_{i=1}^{NC} c_i$	**295**	
$N_C = N_{Ref}$	**20**	
$C_{med} = \frac{1}{\max(N_C, N_{Ref})} \sum_{i=1}^{N_C} c_i = \frac{1}{20} \cdot 295 = 14{,}750$		
C_{med} = 14,750		

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FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE ÎN VEDEREA OBȚINERII ATESTATULUI DE ABILITARE PENTRU DOMENIUL FUNDAMENTAL MATEMATICĂ ŞI ŞTIINȚE ALE NATURII, DOMENIUL ŞTIINȚIFIC CHIMIE

3. Lista de verificare a îndeplinirii standardului P

Numarul publicatiei	**Referinta bibliografica**	**s_i**	**p_i**	**s_i/p_i**
1.	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**.	**1.083**	**1**	**1.083**
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5.	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**.	**0.659**	**1**	**0.659**
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$P = \sum_i \frac{s_i}{p_i}$	**15,047**			

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