

Fisa de îndeplinire a standardelor minimale

1. Propunere de definiții privind structura activității candidatului			
Nr. crt.	Domeniul activităților	Tipul activităților	
1	Activitatea didactica si profesionala (A1)	1.1	Cărți/Capitole în cărți de specialitate/ Monografii (cu ISBN)
		1.2	Manuale/Suport didactic: Lucrări didactice, îndrumare de laborator, proiectare etc (în accord cu structura postului)
2	Activitatea de cercetare (A2)	2.1	Articole în extenso în reviste cotate ISI Thomson Reuters
		2.2	Brevete de invenție
		2.3.	Articole în reviste și volumele unor manifestări științifice, indexate în baze de date internaționale⁽¹⁾ ISI proceedings
		2.4.	Granturi/proiecte câștigate prin competiție
3	Recunoașterea și impactul activității (A3)	3.1.	Citări în reviste ISI Thomson Reuters si BDI (se exclud autocitările ⁽²⁾)

(1) Bazele de date internaționale (BDI) luate în considerare pentru articolele publicate în reviste și în volumele unor manifestări științifice, cu excepția articolelor publicate în reviste cotate ISI, sunt cele recunoscute pe plan științific internațional precum (nelimitativ): Scopus, IEEE Xplore, Science Direct, Elsevier, Wiley, ACM, DBLP, Springerlink, Engineering Village, Cabi, Emerald, CSA, Compendex, INSPEC, Referativnai Jurnal, Thomson Reuters Master Journal List, Google Scholar. CNATDCU și MEN vor acorda sprijinul și logistica necesare pentru documentare.

(2) Autocitarea este citarea de către un autor a uneia sau mai multor lucrări proprii (citarea lucrărilor în discuție de către coautori nu constituie autocitare pentru autorul respectiv).

2. Standarde minimale necesare și obligatorii pentru conferirea titlului didactic de profesor din învățământul superior și a gradelor profesional de cercetare-dezvoltare CSI, conform anexei [nr. 18](#) - COMISIA INGINERIA MEDIULUI la ordinul 6129/2016

- a) $NT \geq 25$
- b) $NP \geq 10$, cu minim 6 lucrări cu $FI > 1$
- c) $FIC \geq 20$
- d) $NC \geq 100$

Brevete naționale $FI = 1$, intră în calcul FIC de la punctul c).

NT = număr total de articole în reviste ISI

NP = număr total de articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

FIC = factor de impact cumulate

În calculul FIC se ține cont de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respective de factorul de impact împărțit la numărul de autori pentru revistele în care candidatul a publicat un articol la care nu este autor principal.

NC = numărul total de citări în baza SCOPUS sau ISI Web of Science, excluzându-se autocitările.

Grad de îndeplinire a criteriilor:

- a) $NT = 42 > 25$ (168%)
- b) $NP = 18 > 10$ (180%)
- c) $FIC = 29,028 > 20$ (145,14%)
- d) $NC = 150 > 100$ (150%)

1. Activitatea didactica si profesionala (A1)

1.1.a Cărți sau capitole de carte - naționale			
Nr.	Titlul cărții/capitolului/An apariție/editura	Autori	Nr. pagini
1.	<i>Cromatografia de extractie – Metoda de separare a ionilor metalici</i> , 2009 / Risoprint, Cluj-Napoca	<u>M.L. Soran</u>	136
1.1.b Cărți sau capitole de carte - internaționale			
1.	<i>Encyclopedia of Chromatography/ Nucleic Acid Derivatives: Analysis by TLC, 2008</i> , Edited by J. Cazes. Marcel. Dekker, Inc., New York, ISBN: 978-0-8247-2785-7 (hardback) 978-0-8247-2788-8 (electronic)	<u>M.L. Soran</u> , C. Măruțoiu	2
2.	<i>Encyclopedia of Chromatography/ Peptides and Proteins: Analysis by TLC, 2008</i> , Edited by J. Cazes. Marcel. Dekker, Inc., New York, ISBN: 978-0-8247-2785-7 (hardback) 978-0-8247-2788-8 (electronic)	C. Măruțoiu, <u>M.L. Soran</u>	3
3.	<i>Encyclopedia of Chromatography/ Circular and Anticircular TLC, 2008</i> , Edited by J. Cazes. Marcel. Dekker, Inc., New York, ISBN: 978-0-8247-2785-7 (hardback) 978-0-8247-2788-8 (electronic)	C. Măruțoiu, <u>M.L. Soran</u>	4
4.	Chapter 1: Environmental Sampling for Investigation of Antibiotic Residues, Microbial Diversity and Antibiotic Resistance (Prelevarea probelor de mediu pentru investigarea reziduurilor de antibiotice, a diversitatii microbiene si a rezistentei la antibiotice, în Ghid metodologic de monitorizare a antibioticelor și a rezistenței la antibiotice în mediul înconjurător), în <i>Methodological guide for monitoring antibiotics and antibiotic resistance in the environment</i> , editat de către Cristian Coman în limba română (pp. 25-39) și în limba engleză (pp. 201-214), 2016. Editura ©Accent, Cluj-Napoca. ISBN 978-606-561-165-8.	C. Coman, <u>M.L. Soran</u> , A. Farkas	14
5.	Chapter 3: Investigation of Environmental Pollution with Antibiotics (Investigarea poluării mediului înconjurător cu antibiotice, în Ghid metodologic de monitorizare a antibioticelor și a rezistenței la antibiotice în mediul înconjurător), în <i>Methodological guide for monitoring antibiotics and antibiotic resistance in the environment</i> , editat de către Cristian Coman în limba română (pp. 63-77) și în limba engleză (pp. 237-251), 2016. Editura ©Accent, Cluj-Napoca. ISBN 978-606-561-165-8.	<u>M. L. Soran</u> , O. Opriș, I. Lung	14

2. Activitatea de cercetare (A2)

2.1. Articole în reviste cotate ISI Thomson Reuters				
Nr.	Titlul articolului / Revista	Autorii articolului	FI	FIC
1.	Disproportionate photosynthetic decline and inverse relationship between constitutive and induced volatile emissions upon feeding of <i>Quercus robur</i> leaves by large larvae of gypsy moth (<i>Lymantria dispar</i>) / <i>Environmental and Experimental Botany</i> 138 (2017) 184–192	Lucian Copolovici, Andreea Pag, Astrid Kännaste, Adina Bodescu, Daniel Tomescu, Dana Copolovici, <u>Maria-Loredana Soran</u> , Ülo Niinemets	4,369	0,546
2.	The efficiency of the multi-walled carbon nanotubes used for antibiotics removal from wastewaters generated by animal farms / <i>Environmental Science and Pollution Research</i> 2017, 24(19), 16396–16406	<u>Soran M.L.</u> , Opriș O., Lung I, Kacso I., Porav A.S., Stan M.	2,741	2,741
3.	Abundance of antibiotics, antibiotic resistance genes and bacterial community composition in wastewater effluents from different Romanian hospitals / <i>Environmental Pollution</i> , 2017, 225, 304-315	E. Szekeres, A. Baricz, C. M. Chiriac, A. Farkas, O. Opris, <u>M.L. Soran</u> , A.-S. Andrei, K. Rudi, J. L. Balcazar, N. Dragos,	5,099	0,464

		C. Coman		
4.	Removal of antibiotics from aqueous solutions by green synthesized magnetite nanoparticles with selected agro-waste extracts / <i>Process Safety and Environmental Protection</i> , 2017, 107, 357-372, doi 10.1016/j.psep.2017.03.003	M. Stan, I. Lung, <u>M.L. Soran</u> , C. Leostean, A. Popa, M. Stefan, M. D. Lazar, O. Opris, T.D. Silipas, A. S. Porav	2,078	0,208
5.	The optimization of the antibiotics extraction from wastewaters and manure using Box-Behnken experimental design / <i>International Journal of Environmental Science and Technology</i> , 2016, DOI 10.1007/s13762-016-1165-2 14(3), 473 - 480	Opriş O., <u>Soran M.L.</u> , Lung I., Truşcă M. R. C., Szoke-Nagy T., Coman C.	1,915	1,915
6.	Determination of Antibiotics in Surface Water by Solid-Phase Extraction and High-Performance Liquid Chromatography with Diode Array and Mass Spectrometry Detection / <i>Anal. Lett.</i> , 2016, 50(7), 1209 - 1218, doi: 10.1080/00032719.2016.1209516	<u>M.L. Soran</u> , I. Lung, O. Opris, V. Floare-Avram, C. Coman	1,15	1,15
7.	Induction of stress volatiles and changes in essential oils content and composition upon microwave exposure in the <i>Ocimum basilicum</i> aromatic plant / <i>Science of the Total Environment</i> , 2016, 2016, 569–570, 489–495	Lung I, <u>Soran M.L.</u> , Opris O., Truşcă M. R. C., Niinemets Ü., Copolovici L.	4,900	4,900
8.	Determination of Myristicin and Linalool in Plants Exposed to Microwave Radiation by High-Performance Liquid ChromatographyI / <i>Analytical letters</i> , 2015, 48, 1-8	I. Lung, M. Stan, O. Opris, <u>M.L. Soran</u>	1,088	1,088
9.	Influence of microwave frequency electromagnetic radiation on terpene emission and content in aromatic plants / <i>Journal of Plant Physiology</i> 2014, 171(15), 1436-43	<u>M.L. Soran</u> , Manuela Stan, Ulo Niinemets, Lucian Copolovici	2,557	2,557
10.	High performance thin-layer chromatographic quantification of myristicin and linalool from leaf extracts of microwave-irradiated parsley, dill and celery / <i>Journal of planar chromatography – Mod. TLC</i> 2014, 27(2), 97-101	Manuela Stan, Ocsana Opris, Ildiko Lung, <u>M.L. Soran</u>	0,670	0,1675
11.	Synthesis and characterization of Fe ₃ O ₄ @ZnS and Fe ₃ O ₄ @Au@ZnS core-shell nanoparticles / <i>Applied Surface Science</i> 2014, 288, 180-192	M. Stefan, C. Leostean, O. Pana, <u>M.L. Soran</u> , R.C. Suci, E. Gautron, O. Chauvet	2,711	0,387
12.	High-performance thin-layer chromatographic quantification of some essential oils from <i>Anethum graveolens</i> extracts / <i>Journal of planar chromatography – Mod. TLC</i> 2014, 27(1), 33-37	Manuela Stan, Ildiko Lung, Ocsana Opris, <u>M.L. Soran</u>	0,670	0,1675
13.	Extraction and HPLC determination of the ascorbic acid content of three indigenous spice plants / <i>Journal of Analytical Chemistry</i> , 2014, 69(10), 998-1002	M. Stan, <u>M.L. Soran</u> , C. Marutoiu	0,479	0,160
14.	Influence of microwave field on the ascorbic acid content in leaves of some common aromatic plants in Romania / <i>Studia Universitatis Babeş-Bolyai, Chemia</i> 2014, LIX, 1, 125-133	Manuela Stan, <u>M.L. Soran</u> , Codruţa Varodi, Ildiko Lung	0,191	0,048
15.	Grape seed extract as photochemopreventive agent against UVB-induced skin cancer / <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 118, 16-21	M. Perde-Schrepler, G. Chereches, I. Brie, C. Tatomir, I.D. Postescu, <u>L. Soran</u> , A. Filip	2,803	0,400

16.	Determination of some frequently used antibiotics in waste waters using solid phase extraction followed by high performance liquid chromatography with diode array and mass spectrometry detection / Central European Journal of Chemistry 2013, 11(8), 1343-1351	Ocsana Opriș, Maria-Loredana Soran , Virginia Coman, Florina Copaciu, Dumitru Ristoiu	1,329	1,329
17.	Synthesis and characterization of Fe–Pt based multishell magnetic nanoparticles / J. Alloy. Compd. 2013, 574, 477-485	O. Pana, C. Leostean, M.L. Soran , M. Stefan, S. Macavei, S. Gutoiu, V. Pop, O. Chauvet	2,726	0,341
18.	Effect of microwave irradiation on polyphenolic compounds from <i>Satureja hortensis</i> L. / Central European Journal of Chemistry 2013, 11(4), 535-541	I. Lung, M.L. Soran , C. Tudoran, C. Măruțoiu	1,329	1,329
19.	Influence of nine antibiotics on key secondary metabolites and physiological characteristics in <i>Triticum aestivum</i> : leaf volatiles as a promising new tool to assess toxicity / Ecotoxicology and Environmental Safety 2013, 87, 70–79	Ocsana Opris, Florina Copaciu, Maria Loredana Soran , Dumitru Ristoiu, Ulo Niinemets, Lucian Copolovici	2,482	0,413
20.	Separation and identification of some non-steroidal anti-inflammatory drugs using TLC and HPLC-MS / Journal of Planar Chromatography – Mod. TLC 2012, 25(6), 523-527	B. Tița, O.F. Măruțoiu, D. Tița, C. Măruțoiu, M.L. Soran , Z. Moldovan	0,955	0,159
21.	Interface charge transfer in polypyrrole coated perovskite manganite magnetic nanoparticles / Journal of Applied Physics, 2012, 111(4), 044309 - 044309-8	O. Pana, M.L. Soran , C. Leostean, S. Macavei, E. Gautron, C.M. Teodorescu, N. Gheorghe, O. Chauvet	2,210	0,276
22.	Essentials Oils Determination from <i>Satureja hortensis</i> L. by Chromatographic Techniques / Journal of Essential Oil – Bearing Plants, 2011, 14(6), 699-707	Maria - Loredana Soran , Codruta Varodi, Simona Codruta Cobzac, Ildiko Lung	0,290	0,290
23.	Comparative study of core-shell iron/iron oxide gold covered magnetic nanoparticles obtained in different conditions / J. Nanopart. Res. 2011, 13, 6181-6192	C. Leostean, O. Pana, R. Turcu, M.L. Soran , S. Macavei, O. Chauvet, C. Payen	3,287	0,470
24.	Synthesis and characterization of the core-shell Au covered LSMO manganite magnetic nanoparticles / Synth. Met. 2010, 160, 1692-1698	O. Pana, R.Turcu, M.L.Soran , C.Leostean, E.Gautron, C.Payen, O.Chauvet	1,871	0,267
25.	HPTLC Analysis of Thymol in Extracts of <i>Satureja hortensis</i> L. Obtained by Different Techniques / Journal of Planar Chromatography – Mod. TLC 2010, 23(5), 320-322	M.L. Soran , I. Lung	1,247	1,247
26.	Extraction and chromatographic determination of essentials oils from <i>Ocimum basilicum</i> L. Leaves / Studia Universitatis “Babes-Bolyai”, <i>Chemia</i> , 2010, LV(3), 31-38	M.L. Soran , S. C. Cobzac, C. Varodi, I. Lung, E. Surducun, V. Surducun	0,231	0,231
27.	HPTLC Quantification of Some Flavonoids in Extracts of <i>Satureja hortensis</i> L. Obtained by Use of Different Techniques / Journal of Planar Chromatography – Mod. TLC, 2009, 22(1), 25-28	Ildiko Bros, Maria - Loredana Soran , Rodica Domnica Briciu, Simona Codruta Cobzac	0,982	0,246
28.	Separation of Pesticides Mixture by Bidimensional HPTLC / Revista de chimie, 2009, 60(5), 494-496	C. Tigae, O.F. Marutoiu, N.G. Baghina, M. L. Soran , A. Simionescu, C. Marutoiu	0,389	0,065
29.	Microwave Assisted Thin-Layer Chromatography - an Improved Separation	Maria-Loredana Soran , Ildikó Broș,	0,982	0,982

	Technique / J. Planar Chromatogr.-Mod. TLC, 2008, 21(4), 243-248	Emanoil Surducan, and Vasile Surducan		
30.	Structure, morphology and magnetic properties of Fe–Au core-shell nanoparticles / Surface Science 2007, 601, 4352–4357	O. Pana, C.M. Teodorescu, O. Chauvet, C. Payen, D. Macovei, R. Turcu, M.L. Soran , N. Aldea, L. Barbu	1,855	0,206
31.	Use of Di(n-butyl) and Di(iso-butyl)dithiophosphoric acids as complexing agents in the TLC separation of some d and f transition metal ions / J. Planar Chromatogr.-Mod. TLC, 2007, 20, 153-158	Maria Curtui, Maria - Loredana Soran	0,683	0,683
32.	The Organophosphoric Ligands – Complexing Agents in Thin Layer Chromatography / Revista de chimie, 2007, 58(5), 447-450	Maria - Loredana Soran , Maria Curtui, Diana Gherman	0,261	0,261
33.	TLC Separation of Metal Ions Using Di(n-butyl)dithiophosphoric Acid and Neutral Organophosphorus Ligands / J. Planar Chromatogr.-Mod. TLC 2006, 19, 310-314	M. Curtui, M.L. Soran	1,153	1,153
34.	New polypyrrole – multi wall carbon nanotubes hybrid materials / Journal of Optoelectronics and Advanced Materials, 2006, 8(2), 643-647	R.Turcu, Al. Darabont, A. Nan, N. Aldea, D. Macovei, D. Bica, L. Vekas, O. Pana, M.L. Soran , A.A. Koos, L.P. Biro	1,106	0,101
35.	Separation of U(VI) and Th(IV) from Some Rare Earths by thin layer chromatography with Di(2-ethylhexyl)dithiophosphoric acid on silica gel / J. Liq. Chromatogr. & Rel. Techn., Special Issue on Thin Layer Chromatography, 2005, 28(16), 2515-2524	M.L. Soran , M. Curtui, C. Măruțoiu	0,814	0,814
36.	Quality control of commercial mustard by thin-layer chromatography / J. Planar Chromatogr.-Mod. TLC, 2005, 18(104), 282-284	C. Măruțoiu, L. Oprean, O.F. Măruțoiu, M.L. Soran , C. Tigae, M.C. Goncea	0,667	0,111
37.	TLC Separation of Rare Earths Using Di(2-ethylhexyl)dithiophosphoric Acid as Complexing Reagent / J. Planar Chromatogr.-Mod. TLC, 2005, 18(102), 160-163	L. Soran , T. Hodișan, M. Curtui, D. Casoni,	0,667	0,667
38.	Optimization of separation of some aflatoxins by thin-layer chromatography / J. Planar Chromatogr.-Mod. TLC, 2004, 17, 374-376	C. Măruțoiu, S. Puiu, M.I. Moise, L. Soran , O.F. Măruțoiu, L. Boboș	0,824	0,137
39.	HPLC monitoring synthesis of R ₂ NCH ₂ substituted benzene derivatives / Central European Journal of Chemistry, 2004, 2(4), 1-10	L. Soran , V. Coman, A. Soran, C. Silvestru	0,171	0,171
40.	Calibration based estimation of detection and determination limits of Cu(II) and Ni(II), for a TLC analytical system / Revista de Chimie (București), 2004, 55(3), 137-139	C. Sârbu, L. Soran , M. Curtui	0,308	0,103
41.	Utilizarea unor schimbători de ioni anorganici în cromatografia pe strat subțire I. Separarea unor complecși pe silicat de zirconiu(IV) / Revista de Chimie (București), 2003, 54(2), 178-180	C. Măruțoiu, M. Dascălu, M.L. Soran , C. Tigae, A. Popescu, C. Spînu	0,291	0,049
42.	Complecși ai Sb(III) cu sulfatazozolul / Revista de Chimie (București), 2001, 52(10), 563-565	C. Măruțoiu, M. Dascălu, M.L. Soran , I. Tarsiche, R. Grecu, R. Morar	0,163	0,027
Punctaj realizat:			29,028	

2.2. Brevete de invenție și inovare			
Nr.	Titlul brevetului	Autori	Nr. înregistrare
Naționale			
1.	Instalație de separare a compusilor chimici prin cromatografie în prezența câmpului de microunde de putere	E.Surducan, V.Surducan, Soran Maria Loredana , Bros Ildiko	RO 123363 din 28.10.2011

2.3. Articole în reviste și volumele unor manifestări științifice, indexate în baze de date internaționale ⁽³⁾ ISI proceedings		
Nr. crt.	Titlul articolului / Revista	Autorii articolului
1.	Microwave Field Effect on Polyphenolic Compounds from Aromatic Plants / <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2016, 4(1), 48-55.	M.L. Soran , M. Stan, I. Lung, M.R.C. Trușcă
2.	Ascorbic acid determination from alcoholic and soft drinks by different techniques / Proceedings – International Conference „Modern technologies, in the Food Industry”, 20-22 octombrie 2016., Chișinău, Republica Moldova, 395-400. ISBN: 978-9975-87-138-9	Varodi C., Soran M. L. , Lung I., Oprîș O., Mureșan L.
3.	Application for temperature and humidity monitoring of data center environment / AIP Conference Proceedings 2015, 1700, doi: 10.1063/1.4938450	Ș. Albert, M. R. C. Trușcă, M. L. Soran
4.	Integrating nano- and microparticles in practical decontamination processes for water and sediments in a green technology approach / AIP Conference Proceedings 2015, 1700, doi: 10.1063/1.4938433	T. Eggen, M.L. Soran
5.	The benefits of data center temperature monitoring / RO-LCG 2015 Conference, "Grid, Cloud and High-Performance Computing in Science, 28-30 octombrie 2015, Cluj-Napoca	M.R.C. Trușcă, Ș. Albert, M.L. Soran
6.	The influence of soil salinity to chlorophylls and β-carotene contents in <i>Lycopersicon esculentum</i> Mill / <i>Journal of Horticulture, Forestry and Biotechnology</i> , 2015, 19(2), 35-38	Tomescu D. Sumalan R., Soran Loredana , Copolovici L.
7.	Control and reducing of computing system power consumption / Proceeding of the 9th Conference on Sustainable Development of Energy, Water and Environments Systems, September 20-27, 2014, Venice-Istambul, SDEWES2014.0083-1 - 10	M.R.C. Trușcă, C. Tudoran, S. Albert, M.L. Soran , M. Abrudean
8.	Microwave field effect on polyphenolic compounds from aromatic plants / Proceeding of the 9th Conference on Sustainable Development of Energy, Water and Environments Systems, September 20-27, 2014, Venice-Istambul, SDEWES2014.0086-1 - 7	M.L. Soran , M. Stan, I. Lung, M.R.C. Trusca
9.	Environmental Parameters Control in Datacenter / <i>Proceeding of 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014)</i> , - THETA 19th edition, May 22-24, 2014, Cluj-Napoca, Romania	M.R.C. Trușcă, Ș. Albert, M.L. Soran , M. Abrudean
10.	Application for some Parameters Monitoring in Installation for Isotopes Separation / <i>Proceeding of 2014 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2014)</i> , - THETA 19th edition, May 22-24, 2014, Cluj-Napoca, Romania	M.R.C. Trușcă, Ș. Albert, M.L. Soran , C. Varodi, F. Farcas, M.L. Unguresan
11.	Synthesis and spectral characterization of Eu doped TiO ₂ nanoparticles / AIP Conference Proceedings 2013, 1565, 259-262	M. Stefan, O. Pana, O. Onija, C. Leostean, M.L. Soran , M.C. Rosu, S. Gutoiu
12.	Extraction and GC determination of volatile aroma compounds from extracts of three plant species of the Apiaceae family / AIP Conference Proceedings 2013, 1565, 75-78	M. Stan, M.L. Soran , C. Varodi, I. Lung, L. Copolovici, C. Măruțoiu

13.	Power Consumption Monitoring Using Additional Monitoring Device / AIP Conference Proceedings 2013, 1565, 185-187	M.R.C. Trușcă, Ș. Albert, C. Tudoran, <u>M.L. Soran</u> , F. Fărcaș, M. Abrudean
14.	Evaluation of Total Chlorophyll Content in Microwave-Irradiated <i>Ocimum basilicum L.</i> / <i>Scientific Bulletin of ESCORENA</i> , 2013, 8, 31-35	I. Lung, <u>M.L. Soran</u> , M. Stan, C. Bele, C. Matea
15.	Quantification of Total Flavonoids and Phenolic Acids from Microwave Irradiated and Non-irradiated Plants / <i>Advances in Research</i> , 2013, 1(1), 1-10	I. Lung, <u>M.L. Soran</u> , M. Stan, D. Podar
16.	Determination of flavonoids in <i>Triticum aestivum L.</i> treated with ampicillin / AIP Conference Proceedings, 2012, 1425, 47-49	<u>M.L. Soran</u> , O. Opris, F. Copaciu, C. Varodi
17.	Extraction and identification of flavonoids from parsley extracts by HPLC analysis / AIP Conference Proceedings, 2012, 1425, 50-52	M. Stan, <u>M.L. Soran</u> , C. Varodi, I. Lung
18.	Magnetization enhancement of magnetic nanoparticles coated with polypyrrole / AIP Conference Proceedings, 2012, 1425, 135-138	O. Pana, C. Leostean, <u>M.L. Soran</u> , M. Stefan, S. Macavei, N.G. Gheorghe, C.M. Teodorescu
19.	Structural characterization of zinc sulphide thin films by radial distribution function analysis using X-ray scattering / AIP Conference Proceedings, 2012, 1425, 155-158	M. Stefan, E. Indrea, E.J. Popovici, <u>M.L. Soran</u> , O. Pana
20.	Power consumption monitoring in ITIM Datacenter / Proceeding - Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science", 25 – 27 oct. 2012, Cluj-Napoca, Romania, 93-95	M.R.C. Trușcă, Ș. Albert, F. Fărcaș, <u>M.L. Soran</u> , M. Abrudean
21.	ITIM activity in Grid and High Performance Computing / Proceeding - Romania Tier 2 Federation "Grid, Cloud & High Performance Computing Science", 25 – 27 oct. 2012, Cluj-Napoca, Romania, 27-30	F. Fărcaș, M.R.C. Trușcă, Ș. Albert, <u>L. Soran</u> , G. Popeneciu
22.	Implementation of an Additional Monitoring Device to Prevent Failures of the Cooling Systems / <i>Proceeding of 2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012)</i> , - <i>THETA 18th edition</i> , May 24-27, 2012, Cluj-Napoca, Romania, M1 225	M.R.C. Trușcă, Ș. Albert, F. Fărcaș, <u>M.L. Soran</u> , M. Abrudean
23.	Analytical determination of carotenoids in inland <i>Ocimum basilicum L.</i> / <i>Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca (Agriculture)</i> 2010, 67(2), 298-302	C.T. Matea, <u>M.L. Soran</u> , A. Pinteia, C. Bele
24.	The extraction and chromatographic determination of the essentials oils from <i>Ocimum basilicum L.</i> by different techniques / <i>Journal of Physics: Conference Series</i> , 2009, 182, 012016	<u>M.L. Soran</u> , S.C. Cobzac, C. Varodi, I. Lung, E. Surducian, V. Surducian
25.	Synthesis and characterization of LSMO nanoparticles covered with Au having a core-shell structure / <i>Journal of Physics: Conference Series</i> , 2009, 182, 012071	O. Pana, R. Turcu, <u>M.L. Soran</u> , S. Macavei, C. Leostean
26.	Properties of novel Fe@Au core-shell nanoparticles / <i>Studia Universitatis Babes-Bolyai, Physica</i> , 2008, LIII, 2, 39-46	C. Leostean, O. Pana, R. Turcu, <u>M.L. Soran</u>
27.	Magnetic composites between core-shell Fe@Au nanoparticles and polymers / <i>J. Nanostruct. Polym. Nanocomp.</i> 2007, 3(3), 96-102.	O. Pana, I. Craciunescu, C. Mijangos, E. Goiti, <u>M.L. Soran</u> , R. Turcu, O. Chauvet
28.	Microwave degradation of sunflower oil. Complementary study by photopyroelectric and infrared spectroscopy, gas chromatography and fluorescence / <i>Proceeding of the International Conference „Agricultural and Food Sciences, Processes and Technologies” (International Conference „Agricultural and Food Sciences, Processes and Technologies”, Third edition, Sibiu, April 26-27, 2007)</i> , 2007, 5-12; ISSN 1843-0694	I. Bros, M. Streza, <u>M.L. Soran</u> , V. Surducian, E. Surducian, I. Bratu, R. Pop, C. Neamtu, D. Dadarlat

29.	Photothermal methods applied for investigation of early spoilage of some vegetable oils / <i>Proceeding of the International Conference „Agricultural and Food Sciences, Processes and Technologies” (International Conference „Agricultural and Food Sciences, Processes and Technologies”, Third edition, Sibiu, April 26-27, 2007), 2007, 83-90; ISSN 1843-0694</i>	M. Streza, I. Bros, <u>M.L. Soran</u> , V. Surducu, E. Surducu, I. Bratu, I. Kacso, S.I. Farcas, C. Neamtu, D. Dadarlat
30.	Separation, identification and determination of some hard metals from Silybum Marianum L / <i>Metal Elements in Environment Medicine and Biology</i> , Timișoara, Publishing House Eurobit, 2006, 241-243; ISBN 973-620-119-8, ISSN 1583-4204	Măruțoiu C., Gogoasă I., Măruțoiu Olivia Florena, <u>M.L. Soran</u> , Nica Badea Delia
31.	TLC separation of U(VI) from Co(II), Ni(II) and Cu(II) on various stationary phases using di(n-butyl)dithiophosphoric acid as complexing agent, <i>Acta Universitatis Cibiniensis, Seria F, Chemia</i> , 2005, 8(1), 55-59.	<u>M.L. Soran</u> , M. Curtui, T. Hodișan, E. Hopîrtean
32.	Some rare earths separation from U(VI) and Th(IV) using dialkyldithiophosphoric acids / <i>Analele Universității din Oradea, Fascicula Chimie</i> , 2004, 11, 99-106	<u>L. Soran</u> , M. Curtui, T. Hodișan, I. Haiduc
33.	Separation, identification and determination of some metal ions from <i>Calendula Officinalis L.</i> / <i>Metal elements in environment, medicine and biology</i> , 2004, 6, 303-306 (Proc. of 6 th Int. Symp. Of Roumanian Academy-Branch Timișoara, Nov. 8-10, 2004); ISBN 973-620-119-8, ISSN 1583-4204	C. Măruțoiu, L. Oprean, M.I. Moise, O.F. Măruțoiu, <u>L. Soran</u> , M.L. Rusu
34.	Contrôle d'identité et de pureté de quelques antibiotiques utilisés à produire des sensidisques pour l'antibiogramme / COFrRoCA – 2004 (Proceeding of the <i>Troisième Colloque Franco-Roumain de Chimie Appliquée</i> , Slănic Moldova, Bacău), 2004, 50-53; ISBN 973-8392-36-5	V. Coman, R. Grecu, <u>L. Soran</u> , A. Ștețco, V. Avram
35.	Separation of some cations by TLC using di(n-octyl)dithiophosphoric acid as complexing reagent / <i>Acta Universitatis Cibiniensis, Seria F, Chemia</i> , 2003, 6(2), 3-7	<u>L. Soran</u> , C. Marutoiu, E. Hopirtean, I. Haiduc
36.	Separation and identification of some active compounds from plants by TLC coupled with mass spectrometry / <i>Annals of West University of Timișoara, Series of Chemistry</i> , 2003, 12(3), 1629-1636.	C. Măruțoiu, D. Nica-Badea, M.I. Moise, <u>M.L. Soran</u> , A. Sicoe, C.A. Gavrilă
37.	HPLC determination of some antibiotics / <i>Studia Universitatis Babeș-Bolyai, Physica</i> , Special Issue 1 (Proceedings of The Third Conference with International Participation on Isotopic and Molecular Processes, PIM), 2003, 427-429	V. Coman, V. Avram, <u>L. Soran</u> , R. Grecu, Z. Moldovan și H. Farkas
38.	Separation of some cations by TLC using dibutyldithiophosphoric acid as complexing reagent / <i>Chemical and Environmental Research</i> , 2003, 12(1&2), 135-139	<u>M.L. Soran</u> , C. Măruțoiu, M. Curtui, M. Dascălu
39.	Separation of nickel (II) and copper (II) from different cations by TLC using dipentylidithiophosphoric acid as complexing reagent / <i>Acta Universitatis Cibiniensis, Seria F, Chemia</i> , 2002, 5(2), 69-73.	<u>M.L. Soran</u> , C. Măruțoiu, M. Curtui, T. Hodișan, R. Oprean
40.	Extraction of Zr(IV) with tritolylphosphate / <i>Studia Universitatis “Babeș-Bolyai”, Chemia</i> , 2000, 45(1-2), 169-173	M. Curtui, <u>M.L. Soran</u> ,
41.	The use of organodithiophosphoric acids for separation and determination of some metal ions from residual waters / <i>Studia Universitatis Babeș-Bolyai, Chemia</i> , 2006, LI(2), 21-26.	<u>M.L. Soran</u> , M. Curtui, I. Haiduc, D. Gherman

2.4. Granturi/proiecte câștigate prin competiție			
Nr.	Tip proiect / Nr. contract	Titlul Proiectului	Valoare contract (euro)
1.	Proiect bilateral România – Moldova - 35/BM/19.09.2016*	Substituirea aditivilor alimentari sintetici cu componenți bioactivi extrași din resurse naturale regenerabile	4098 (curs 1 euro=4,4464 lei la 19.09.2017)
2.	EEA Grants - PROGRAMUL RO04 - REDUCEREA SUBSTANȚELOR PERICULOASE / 2014/ 3499/20.05.2015*	Ghid metodologic de monitorizare a antibioticelor și a rezistenței antimicrobiene în mediu ca instrument suport pentru îmbunătățirea managementului calității apelor de suprafață și a pânzei freatică	115294 (curs 1 euro=4,4484lei la 20.05.2015)
3.	PN-II-RU-TE-2011 / 76 / 2011	Efectul microundelor asupra uleiurilor esentiale si metabolitilor secundari din cateva plante indigene	176766 (curs 1 euro=4,2429lei la 05.09.2011)
4.	Parteneriat in domeniile prioritare, 2007 / PNII 51-098 / 2007	Influenta microundelor asupra compusilor bioactivi prezenti in plantele autohtone	335715 (curs 1 euro=3,3908lei la 17.09.2007)
5.	CEEX 2006 – Proiecte de excelenta pentru tineri cercetatori / 1433/27.04.2006	Analiza calitatii uleiurilor vegetale prin aplicarea unui ansamblu de metode performante optotermice si cromatografice	41440 (1 euro = 3,4749 lei la 27.04.2006)
6.	CEEX 2005 - Proiecte de excelenta pentru tineri cercetatori / 2995 / 11.10.2005	Separarea si determinarea unor metale din probe de apa, utilizand derivati ditiofosforici ca agenti complexanti	40049 (curs 1 euro=3,5956 lei la 11.10.2005)

*- proiect internațional

Director general INCDTIM,

Dr. Ing. Adrian Bot

Director economic,

Dr. Diana Nicoară

Candidat,

Dr. Maria – Loredana Soran

3. Recunoașterea și impactul activității (A3)

3.1 Citări în reviste ISI și BDI	
Nr. Crt.	Articol citat / Articol care citează
1.	Grape seed extract as photochemopreventive agent against UVB-induced skin cancer Perde-Schrepler, M; Chereches, G; Brie, I; Tatornir, C; Postescu, ID; Soran, L; Filip, A JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, 2013 , 118, 16-21
1.	In vitro and in vivo anti-inflammatory properties of green synthesized silver nanoparticles using Viburnum opulus L. fruits extract By: Moldovan, Bianca; David, Luminita; Vulcu, Adriana; et al. MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, 2017 , 79, 720-727
2.	Aqueous extract of Pinus caribaea inhibits the damage induced by ultraviolet radiations, in plasmid DNA By: Vernhes Tamayo, Marioly; Schuch, Andre Passaglia; Fuentes-Leon, Fabiana; et al. JOURNAL OF PHARMACY & PHARMACOGNOSY RESEARCH, 2017 , 5(4), 262-269
3.	Dietary polyphenols as photoprotective agents against UV radiation By: Hu, Shuting; Zhang, Xinchen; Chen, Feng; et al. JOURNAL OF FUNCTIONAL FOODS, 2017 , 30, 108-118
4.	Photochemoprotective effects against UVA and UVB irradiation and photosafety assessment of Litchi chinensis leaves extract By: Thiesen, Liliani Carolini; Baccarin, Thaisa; Fischer-Muller, Ana Flavia; et al. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, 2017 , 167, 200-207
5.	Herbal extracts, lichens and biomolecules as natural photo-protection alternatives to synthetic UV filters. A systematic review By: Radice, Matteo; Manfredini, Stefano; Ziosi, Paola; et al. FITOTERAPIA, 2016 , 114, 144-162
6.	Caffeic Acid Inhibits Chronic UVB-Induced Cellular Proliferation Through JAK-STAT3 Signaling in Mouse Skin By: Agilan, Balupillai; Prasad, N. Rajendra; Kanimozhi, Govindasamy; et al. PHOTOCHEMISTRY AND PHOTOBIOLOGY, 2016 , 92(3),467-474
7.	Photoprotection by Punica granatum seed oil nanoemulsion entrapping polyphenol-rich ethyl acetate fraction against UVB-induced DNA damage in human keratinocyte (HaCaT) cell line By: Baccarin, Thaisa; Mitjans, Montserrat; Ramos, David; et al. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, 2015 , 153,127-136
8.	Caffeic Acid Inhibits UVB-induced Inflammation and Photocarcinogenesis Through Activation of Peroxisome Proliferator-activated Receptor- in Mouse Skin By: Balupillai, Agilan; Prasad, Rajendra N.; Ramasamy, Karthikeyan; et al. PHOTOCHEMISTRY AND PHOTOBIOLOGY, 2015 , 91(6),1458-1468
9.	Concentration effects of grape seed extracts in anti-oral cancer cells involving differential apoptosis, oxidative stress, and DNA damage By: Yen, Ching-Yu; Hou, Ming-Feng; Yang, Zhi-Wen; et al.

		BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE, 2015 , <i>15</i> , Article Number: 94
	10.	Malondialdehyde-derived epitopes in human skin result from acute exposure to solar UV and occur in nonmelanoma skin cancer tissue By: Williams, Joshua D.; Bermudez, Yira; Park, Sophia L.; et al. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, 2014 , <i>132</i> , 56-65
	11.	Grape Seed Extract Effects in Brain After Hypobaric Hypoxia By: Muresan, Adriana; Suci, Soimita; Daicoviciu, Doina; et al. JOURNAL OF MEDICINAL FOOD, 2013 , <i>16</i> (9),831-838
	12.	Towards complex utilisation of winemaking residues: Characterization of grape seeds by total phenols, tocols and essential elements content as a by-product of winemaking By: Lachman, Jaromir; Hejtmankova, Alena; Hejtmankova, Katerina; et al. INDUSTRIAL CROPS AND PRODUCTS, 2013 , <i>49</i> , 445-453
	13.	Inhibition of UVB-induced skin phototoxicity by a grape seed extract as modulator of nitrosative stress, ERK/NF-kB signaling pathway and apoptosis, in SKH-1 mice By: Filip, Gabriela Adriana; Postescu, Ion Dan; Bolfa, Pompei; et al. FOOD AND CHEMICAL TOXICOLOGY, 2013 , <i>57</i> , 296-306
	14.	In vitro and in vivo evaluation of inhibition activity of lotus (Nelumbo nucifera Gaertn.) leaves against ultraviolet B-induced phototoxicity By: Huang, Bo; Zhu, Ling; Liu, Song; et al. JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, 2013 , <i>121</i> , 1-5
2.		HPLC monitored synthesis of R ² NCH ₂ substituted benzene derivatives used as (C,N)-ligands for organometallic compounds By: Soran, L; Coman, V; Soran, A; Silvestru C CENTRAL EUROPEAN JOURNAL OF CHEMISTRY, 2004 , <i>2</i> (4), 563-572
	1.	Intramolecularly coordinated organocadmium iodides By: Ricica, T.; Dostal, L.; Bouska, M.; et al. INORGANICA CHIMICA ACTA, 2015 , <i>436</i> , 39-44
	2.	Syntheses, solid-state structures, solution behavior of hypervalent organobismuth(III) compounds [2-(Et ₂ NCH ₂)C ₆ H ₄] _(n) BiX _{3-n} and DFT characterization of [2-(Me ₂ NCH ₂)C ₆ H ₄] _(n) BiX _{3-n} [X = Cl, Br, I; n=1-3] By: Soran, Albert; Breunig, Hans J.; Lippolis, Vito; et al. JOURNAL OF ORGANOMETALLIC CHEMISTRY, 2010 , <i>695</i> (6), 850-862
3.		Optimization of the separation of some aflatoxins by thin-layer chromatography By: Marutoiu, C; Puiu, S; Moise, MI; Soran, L; Marutoiu, OF; Bobos, L JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC, 2004 , <i>17</i> (5), 372-374
	1.	Application of near infrared spectroscopy for rapid detection of aflatoxin B1 in maize and barley as analytical quality assessment By: Fernandez-Ibanez, V.; Soldado, A.; Martinez-Fernandez, A.; et al. FOOD CHEMISTRY, 2009 , <i>113</i> (2), 629-634
	2.	Direct and rapid discrimination of aflatoxigenic strains based on fibre-optic room temperature phosphorescence detection By: Rojas-Duran, T.; Sanchez-Barragan, I.; Costa-Fernandez, J. M.; et al. ANALYST, 2007 , <i>132</i> (4), 307-313

	3.	Planar chromatography By: Sherma, J ANALYTICAL CHEMISTRY, 2006 , 78(12), 3841-3852
4.		Calibration based estimation of detection and determination limits of Cu(II) and Ni(II), for a TLC analytical system By: Sarbu, C; Soran, L; Curtui, M REVISTA DE CHIMIE, 2004 , 55(3), 137-139
	1.	SIMULTANEOUS DETERMINATION OF PARABENS IN PHARMACEUTICAL PREPARATIONS USING HIGH-PERFORMANCE THIN-LAYER CHROMATOGRAPHY AND IMAGE ANALYSIS By: Casoni, Dorina; Tuhutiu, Ioana Anamaria; Sarbu, Costel JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, 2011 , 34(10-11), 805-816, Article Number: PII 937705223
	2.	New Complexes of Zn(II), Cd(II) and Hg(II) with Ligand Derived from 1-(3,5-diiodo, 2-hydroxy, 4-methyl phenyl), 2-phenyl sulfanyl ethanone By: Sibiescu, Doina; Spatarescu, Irina; Rosca, Ioan; et al. REVISTA DE CHIMIE, 2010 , 61(2), 130-134
	3.	Quantitative Evaluation of Paracetamol and Caffeine from Pharmaceutical Preparations Using Image Analysis and RP-TLC By: Sponar, Florin; Mot, Augustin Catalin; Sarbu, Costel CHROMATOGRAPHIA, 2009 , 69(1-2), 151-155
	4.	Quantitative determination of some food dyes using digital processing of images obtained by thin-layer chromatography By: Sponar, Florin; Mot, Augustin Catalin; Sarbu, Costel JOURNAL OF CHROMATOGRAPHY A, 2008 , 1188(2), 295-300
	5.	Planar chromatography By: Sherma, J ANALYTICAL CHEMISTRY, 2006 , 78(12), 3841-3852
	6.	A validation study regarding determination of tocopherols through direct and derivatization gas chromatographic method By: Beldean-Galea, MS; Mocani, A; Sarbu, C REVISTA DE CHIMIE, 2006 , 57(2), 125-129
5.		Extraction and HPLC determination of the ascorbic acid content of three indigenous spice plants By: Stan, M.; Soran, M. L.; Marutoiu, C. JOURNAL OF ANALYTICAL CHEMISTRY, 2014, 69(10), 998-1002
	1.	Nutritional composition analysis for beta-carotene-enhanced transgenic soybeans (<i>Glycine max</i> L.) By: Qin, Yang; Park, Soo-Yun; Oh, Seon-Woo; et al. APPLIED BIOLOGICAL CHEMISTRY, 2017 , 60(3), 299-309
	2.	Gamma radiation enhances the bioactivity of fresh parsley (<i>Petroselinum crispum</i> (Mill.) Fuss Var. Neapolitanum) By: Catunescu, Giorgiana M.; Rotar, Ioan; Vidican, Roxana; et al. RADIATION PHYSICS AND CHEMISTRY, 2017 , 132, 22-29
	3.	Ageing of plasticized poly(lactic acid)/poly(beta-hydroxybutyrate) blend films under artificial UV irradiation and under real agricultural conditions during their application as mulches By: Mosnackova, Katarina; Siskova, Alena; Janigova, Ivica; et al. CHEMICAL PAPERS, 2016 , 70(9), 1268-1278

	4.	Syringe needle-based sampling coupled with liquid-phase extraction for determination of the three-dimensional distribution of L-ascorbic acid in apples By: Tang, Sheng; Lee, Hian Kee FOOD CHEMISTRY, 2016 , 199, 533-540
	5.	Copper nanoclusters as an on-off-on fluorescent probe for ascorbic acid By: Rao, Hanbing; Ge, Hongwei; Lu, Zhiwei; et al. MICROCHIMICA ACTA, 2016 , 183(5), 1651-1657
	6.	Selected yield and qualitative parameters of broccoli in dependence on nitrogen, sulfur, and zinc fertilization By: Slosar, Miroslav; Uher, Anton; Andrejiova, Alena; et al. TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, 2016 , 40(3), 465-473
	7.	A HPLC Method for the Determination of Bisoprolol in Tablets and its Application to a Bioequivalence Study By: Panainte, Alina-Diana; Agoroaei, Luminita; Bibire, Nela; et al. REVISTA DE CHIMIE, 2015 , 66(11), 1791-1795
	8.	A New High Performance Liquid Chromatographic Analysis Method for Ciprofloxacin By: Bibire, Nela; Vieriu, Madalina; Panainte, Alina Diana; et al. REVISTA DE CHIMIE, 2015 , 66(9), 1463-1466
	9.	Spectrophotometric Determination of L-Ascorbic Acid in Pharmaceuticals Based on Its Oxidation by Potassium Peroxymonosulfate and Hydrogen Peroxide By: Salkic, Mirsad; Selimovic, Amra CROATICA CHEMICA ACTA, 2015 , 88(1), 73-79
6.		Synthesis and characterization of Fe ₃ O ₄ @ZnS and Fe ₃ O ₄ @Au@ZnS core-shell nanoparticles By: Stefan, M.; Leostean, C.; Pana, O.; Soran, ML; Suciu, RC; Gautron, E; Chauvet, O APPLIED SURFACE SCIENCE, 2014 , 288, 180-192
	1.	Controlled synthesis of hollow magnetic Fe ₃ O ₄ nanospheres: Effect of the cooling rate By: Hong, Yong; Shi, Hongbing; Shu, Xia; et al. PARTICUOLOGY, 2017 , 33, 24-28
	2.	Fabrication and biological applications of luminescent polyamidoamine dendrimers with aggregation-induced emission feature By: Lv, Qiulan; Liu, Meiyang; Wang, Ke; et al. JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, 2017 , 75, 292-298
	3.	Influence of Fe ²⁺ and Ni ²⁺ contents on the optical and electrical properties of ZnS quantum dots By: Iqbal, Shahid; Khan, Rafaqat Ali; Iqbal, Muhammad Javed; et al. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2017 , 28(5), 4449-4457
	4.	Highly efficient surface enhanced Raman scattering with ZnS@Fe ₃ O ₄ @Ag composite structures as probes By: Nair, Radhika V.; Gummaluri, Venkata Siva; Gayathri, P. K.; et al. MATERIALS RESEARCH EXPRESS, 2017 , 4(1), Article Number: 015025
	5.	Building block magneto-luminescent nanomaterials of iron-oxide/ZnS@LaF ₃ :Ce ³⁺ ,Gd ³⁺ ,Tb ³⁺ with green emission By: Shrivastava, Navadeep; Khan, L. U.; Khan, Z. U.; et al. JOURNAL OF MATERIALS CHEMISTRY C, 2017 , 5(9), 2282-2290
	6.	FTIR-evolved gas analysis in recent thermoanalytical investigations

	By: Risoluti, Roberta; Fabiano, Maria Aurora; Gullifa, Giuseppina; et al. APPLIED SPECTROSCOPY REVIEWS, 2017 , 52(1), 39-72
7.	Magnetic recoverable Fe(3)O(4)-TiO(2):Eu composite nanoparticles with enhanced photocatalytic activity By: Stefan, M.; Leostean, C.; Pana, O.; Toloman, D; Popa, A; Perhaita, I; Senila, M; Marincas, O; Barbu-Tudoran, L APPLIED SURFACE SCIENCE, 2016 , 390, 248-259
8.	Facile Synthesis of Fe ₃ O ₄ @ZnS Core-Shell Bifunctional Nanospheres with Superior Magnetic-Fluorescent Properties By: Hong, Yong; Shu, Xia; Qin, Yongqiang; et al. JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 2016 , 29(9), 2367-2371
9.	Hydrothermal synthesis of superparamagnetic and red luminescent bifunctional Fe ₃ O ₄ @Mn ²⁺ -doped NaYF ₄ :Yb/Er core@shell monodisperse nanoparticles and their subsequent ligand exchange in water By: Qin, Zhenli; Du, Sinan; Luo, Yang; et al. APPLIED SURFACE SCIENCE, 2016 , 378, 174-180
10.	Interface charge transfer process in ZnO:Mn/ZnS nanocomposites By: Stefan, M.; Toloman, D.; Popa, A.; et al. JOURNAL OF NANOPARTICLE RESEARCH, 2016 , 18(3), Article Number: 59
11.	Adsorption of drinking water fluoride on a micron-sized magnetic Fe ₃ O ₄ @Fe-Ti composite adsorbent By: Zhang, Chang; Li, Yingzhen; Wang, Ting-Jie; et al. APPLIED SURFACE SCIENCE 2016 , 363, 507-515
12.	Designed synthesis and surface engineering strategies of magnetic iron oxide nanoparticles for biomedical applications By: Wu, Wei; Jiang, Chang Zhong; Roy, Vellaisamy A. L. NANOSCALE, 2016 , 8(47), 19421-19474
13.	Influence of gold core concentration on visible photocatalytic activity of gold-zinc sulfide core-shell nanoparticle By: Misra, Mrinmoy; Gupta, Raju Kumar; Paul, A. K.; et al. JOURNAL OF POWER SOURCES, 2015 , 294, 580-587
	Synthesis and Characterization of Magneto-Luminescent ZnS/Fe ₃ O ₄ Composites By: Liu, Shuling; Wang, Zhengqi; Xu, Qingqing SCIENCE OF ADVANCED MATERIALS, 2015 , 7(2), 371-376
	Rapid and selective extraction of multiple sulfonamides from aqueous samples based on Fe ₃ O ₄ - chitosan molecularly imprinted polymers By: Qin, Shili; Su, Liqiang; Wang, Peng; et al. ANALYTICAL METHODS, 2015 , 7(20), 8704-8713
	Synthesis and characterization of Fe ₃ O ₄ -TiO ₂ core-shell nanoparticles By: Stefan, M.; Pana, O.; Leostean, C.; Bele, C; Silipas, D; Senila, M; Gautron, E JOURNAL OF APPLIED PHYSICS, 2014 , 116(11), Article Number: 114312
7.	Synthesis and characterization of Fe-Pt based multishell magnetic nanoparticles By: Pana, O.; Leostean, C.; Soran, M. L.; et al. JOURNAL OF ALLOYS AND COMPOUNDS, 2013 , 574, 477-485
1.	Nickel-lead-borate glasses and vitroceraamics with antiferromagnetic NiO and nickel-orthoborate crystalline phases By: Mitrici, S.; Rada, S.; Culea, E.; et al. JOURNAL OF NON-CRYSTALLINE SOLIDS, 2017 , 471, 349-356

2.	Effect of annealing on the structure and magnetic properties of CoFe ₂ O ₄ :SiO ₂ nanocomposites By: Dippong, Thomas; Cadar, Oana; Levei, Erika Andrea; et al. <i>CERAMICS INTERNATIONAL</i> , 2017 , 43(12), 9145-9152
3.	Dippong, T.; Cadar, O.; Levei, E. A.; Bibicu, I.; Diamandescu, L.; Leostean, C.; Lazar, M.; Borodi, G. & Tudoran, L. B. Structure and magnetic properties of CoFe ₂ O ₄ /SiO ₂ nanocomposites obtained by sol-gel and post annealing pathways <i>CERAMICS INTERNATIONAL</i> , 2017 , 43, 2113-2122
4.	Chung, R.-J.; Ou, K.-L.; Chen, S.-P. & Liu, H.-L. Preparation of ICG-FePt nanoparticles promising for magnetic resonance imaging contrast agent and hyperthermia applications <i>ADVANCED POWDER TECHNOLOGY</i> , 2016 , 27, 994-999
5.	Suber, L.; Imperatori, P.; Bauer, E. M.; Porwal, R.; Peddis, D.; Cannas, C.; Ardu, A.; Mezzi, A.; Kaciulis, S.; Notargiacomo, A. & Piloni, L. Tuning hard and soft magnetic FePt nanocomposites <i>JOURNAL OF ALLOYS AND COMPOUNDS</i> , 2016 , 663, 601-609
6.	Lopez-Ortega, A.; Estrader, M.; Salazar-Alvarez, G.; Roca, A. G. & Nogues, J. Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles <i>PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS</i> , 2015 , 553, 1-32
7.	Huang, J.; Fang, F.; Wang, L. & Shim, J.-J. Removal of cobalt ions from aqueous solution by Ag/Fe bimetallic nanoparticles <i>DESALINATION AND WATER TREATMENT</i> , 2015 , 56, 2127-2134
8.	Dippong, T.; Levei, E. A.; Diamandescu, L.; Bibicu, I.; Leostean, C.; Borodi, G. & Tudoran, L. B. Structural and magnetic properties of Co _x Fe _{3-x} O ₄ versus Co/Fe molar ratio <i>JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS</i> , 2015 , 394, 111-116
9.	Pisane, K. L.; Singh, S. & Seehra, M. S. Synthesis, structural characterization and magnetic properties of Fe/Pt core-shell nanoparticles <i>JOURNAL OF APPLIED PHYSICS</i> , 2015 , 117
10.	Chen, X. & Ma, Z. Multiplexed electrochemical immunoassay of biomarkers using chitosan nanocomposites <i>BIOSENSORS & BIOELECTRONICS</i> , 2014 , 55, 343-349
8.	Extraction and GC Determination of Volatile Aroma Compounds from Extracts of Three Plant Species of the Apiaceae Family By: Stan, M.; Soran, M. L.; Varodi, C.; Lung, I.; Copolovici, L; Marutoiu, C Edited by: Lazar, MD; Garabagiu, S Conference: 9th International Conference on Processes in Isotopes and Molecules (PIM) Location: Cluj Napoca, ROMANIA Date: SEP 25-27, 2013 Sponsor(s): Natl Inst Res & Dev Isotop & Mol Technologies PROCESSES IN ISOTOPES AND MOLECULES (PIM 2013) Book Series: AIP Conference Proceedings, 2013 , 1565, 75-78
1.	Catunescu, G. M.; Socaci, S. A.; Rotar, I.; Vidican, R.; Bunghez, F.; Tofana, M.; Plesa, A. & Muntean, M. Volatile Profile of Minimally Processed Herbs during Cold Storage <i>ROMANIAN BIOTECHNOLOGICAL LETTERS</i> , 2016 , 21, 11923-11931
2.	Caboni, P.; Saba, M.; Oplos, C.; Aissani, N.; Maxia, A.; Menkissoglu-Spiroudi, U.; Casu, L. & Ntalli, N.

	Nematicidal activity of furanocoumarins from parsley against <i>Meloidogyne</i> spp. <i>PEST MANAGEMENT SCIENCE</i> , 2015 , <i>71</i> , 1099-1105
9.	Interface charge transfer in polypyrrole coated perovskite manganite magnetic nanoparticles By: Pana, O.; Soran, M. L.; Leostean, C.; Macavei, S; Gautron, E; Teodorescu, CM; Gheorghe, N; Chauvet, O <i>JOURNAL OF APPLIED PHYSICS</i> , 2012 , 111(4), Article Number: 044309
1.	Mesaros, A.; Toloman, D.; Nasui, M.; Mos, R. B.; Petrisor, T.; Vasile, B. S.; Surdu, V. A.; Perhaita, I.; Biris, A. & Pana, O. A valence states approach for luminescence enhancement by low dopant concentration in Eu-doped ZnO nanoparticles <i>JOURNAL OF MATERIALS SCIENCE</i> , 2015 , <i>50</i> , 6075-6086
2.	Stefan, M.; Pana, O.; Leostean, C.; Bele, C.; Silipas, D.; Senila, M. & Gautron, E. Synthesis and characterization of Fe ₃ O ₄ -TiO ₂ core-shell nanoparticles <i>JOURNAL OF APPLIED PHYSICS</i> , 2014 , <i>116</i>
3.	Xiao, H.-M. & Fu, S.-Y. Synthesis and physical properties of electromagnetic polypyrrole composites via addition of magnetic crystals <i>CRYSTENGCOMM</i> , 2014 , <i>16</i> , 2097-2112
10.	Determination of Flavonoids in <i>Triticum aestivum</i> L. Treated with Ampicillin By: Soran, M. L.; Opris, O.; Copaciu, F.; Varodi C. Edited by: Lazar, MD Conference: International Conference on Processes in Isotopes and Molecules (PIM) Location: Cluj Napoca, ROMANIA Date: SEP 29-OCT 01, 2011 Sponsor(s): Natl Inst Res & Dev Isotop & Mol Technol (INCDTIM); Romanian Natl Author Sci Res (ANCS) <i>PROCESSES IN ISOTOPES AND MOLECULES (PIM 2011)</i> Book Series: AIP Conference Proceedings, 2012 , <i>1425</i> , 47-49
1.	Opris, O.; Copaciu, F.; Coman, V. & Ristoiu, D. UV-VIS STUDY REGARDING THE INFLUENCE OF TWO POTENTIAL ENVIRONMENTAL POLLUTANTS ON THE TOTAL FLAVONOID CONTENT IN TRITICUM AESTIVUM L. AND SECALE CEREALE L. <i>STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA</i> , 2011 , <i>56</i> , 17-25
11.	Magnetization Enhancement Of Magnetic Nanoparticles Coated With Polypyrrole By: Pana, O.; Leostean, C.; Soran, M. L.; Stefan, M; Macavei, S; Gheorghe, NG; Teodorescu, CM Edited by: Lazar, MD Conference: International Conference on Processes in Isotopes and Molecules (PIM) Location: Cluj Napoca, ROMANIA Date: SEP 29-OCT 01, 2011 Sponsor(s): Natl Inst Res & Dev Isotop & Mol Technol (INCDTIM); Romanian Natl Author Sci Res (ANCS) <i>PROCESSES IN ISOTOPES AND MOLECULES (PIM 2011)</i> Book Series: AIP Conference Proceedings, 2012 , <i>1425</i> , 135-138
1.	Xiao, H.-M. & Fu, S.-Y. Synthesis and physical properties of electromagnetic polypyrrole composites via addition of magnetic crystals <i>CRYSTENGCOMM</i> , 2014 , <i>16</i> , 2097-2112
12.	Comparative study of core-shell iron/iron oxide gold covered magnetic nanoparticles obtained in different conditions By: Leostean, C.; Pana, O.; Turcu, R.; Soran, ML; Macavei, S; Chauvet, O; Payen, C Conference: 10th International Conference on Nanostructured Materials (NANO) Location: Rome, ITALY Date: SEP 13-17, 2010 Sponsor(s): Int Comm Nanostruct Mat

	JOURNAL OF NANOPARTICLE RESEARCH, 2011 , 13(11), Special Issue: SI, 6181-6192
1.	Dippong, T.; Cadar, O.; Levei, E. A.; Bibicu, I.; Diamandescu, L.; Leostean, C.; Lazar, M.; Borodi, G. & Tudoran, L. B. Structure and magnetic properties of CoFe ₂ O ₄ /SiO ₂ nanocomposites obtained by sol-gel and post annealing pathways <i>CERAMICS INTERNATIONAL</i> , 2017 , 43, 2113-2122
2.	Petkevich, A. V.; Abakshonok, A. V.; Agabekov, V. E.; Eryomin, A. N.; Semashko, T. V. & Mikhailova, R. V. Formation of iron-containing composites <i>RUSSIAN JOURNAL OF GENERAL CHEMISTRY</i> , 2016 , 86, 2385-2393
3.	Stefan, M.; Toloman, D.; Popa, A.; Mesaros, A.; Vasile, O. R.; Leostean, C. & Pana, O. Interface charge transfer process in ZnO:Mn/ZnS nanocomposites <i>JOURNAL OF NANOPARTICLE RESEARCH</i> , 2016 , 18
4.	Shishkovsky, I.; Scherbakov, V. & Morozov, Y. Layerwise laser-assisted sintering and some properties of iron oxide core/PEEK shell magnetic nanocomposites <i>MICROELECTRONIC ENGINEERING</i> , 2015 , 146, 85-91
5.	Nunes, E. d. S.; Viali, W. R.; da Silva, S. W.; Huamani Coaquira, J. A.; Garg, V. K.; de Oliveira, A. C.; Morais, P. C. & Jafelicci Junior, M. Characterization of tetraethylene glycol passivated iron nanoparticles <i>APPLIED SURFACE SCIENCE</i> , 2014 , 315, 337-345
6.	Stefan, M.; Pana, O.; Leostean, C.; Bele, C.; Silipas, D.; Senila, M. & Gautron, E. Synthesis and characterization of Fe ₃ O ₄ -TiO ₂ core-shell nanoparticles <i>JOURNAL OF APPLIED PHYSICS</i> , 2014 , 116
7.	Arantes, F. R. & Cornejo, D. R. Monte Carlo study of the magnetic properties of frozen and non-interacting nanoparticles <i>JOURNAL OF NANOPARTICLE RESEARCH</i> , 2013 , 15
8.	Avram, M.; Balan, C. M.; Petrescu, I.; Schiopu, V.; Marculescu, C. & Avram, A. Gold Nanoparticle Uptake by Tumour Cells of B16 Mouse Melanoma <i>PLASMONICS</i> , 2012 , 7, 717-724
13.	Synthesis and characterization of the core-shell Au covered LSMO manganite magnetic nanoparticles By: Pana, O.; Turcu, R.; Soran, M. L.; Leostean, C; Gautron, E; Payen, C; Chauyet, O <i>SYNTHETIC METALS</i> , 2010 , 160(15-16), 1692-1698
1.	Dippong, T.; Cadar, O.; Levei, E. A.; Bibicu, I.; Diamandescu, L.; Leostean, C.; Lazar, M.; Borodi, G. & Tudoran, L. B. Structure and magnetic properties of CoFe ₂ O ₄ /SiO ₂ nanocomposites obtained by sol-gel and post annealing pathways <i>CERAMICS INTERNATIONAL</i> , 2017 , 43, 2113-2122
2.	Petkevich, A. V.; Abakshonok, A. V.; Agabekov, V. E.; Eryomin, A. N.; Semashko, T. V. & Mikhailova, R. V. Formation of iron-containing composites <i>RUSSIAN JOURNAL OF GENERAL CHEMISTRY</i> , 2016 , 86, 2385-2393
3.	Stefan, M.; Toloman, D.; Popa, A.; Mesaros, A.; Vasile, O. R.; Leostean, C. & Pana, O. Interface charge transfer process in ZnO:Mn/ZnS nanocomposites <i>JOURNAL OF NANOPARTICLE RESEARCH</i> , 2016 , 18
4.	Shishkovsky, I.; Scherbakov, V. & Morozov, Y. Layerwise laser-assisted sintering and some properties of iron oxide core/PEEK shell magnetic nanocomposites

	<i>MICROELECTRONIC ENGINEERING</i> , 2015 , 146, 85-91
5.	Nunes, E. d. S.; Viali, W. R.; da Silva, S. W.; Huamani Coaquira, J. A.; Garg, V. K.; de Oliveira, A. C.; Morais, P. C. & Jafelicci Junior, M. Characterization of tetraethylene glycol passivated iron nanoparticles <i>APPLIED SURFACE SCIENCE</i> , 2014 , 315, 337-345
6.	Stefan, M.; Pana, O.; Leostean, C.; Bele, C.; Silipas, D.; Senila, M. & Gautron, E. Synthesis and characterization of Fe ₃ O ₄ -TiO ₂ core-shell nanoparticles <i>JOURNAL OF APPLIED PHYSICS</i> , 2014 , 116
7.	Arantes, F. R. & Cornejo, D. R. Monte Carlo study of the magnetic properties of frozen and non-interacting nanoparticles <i>JOURNAL OF NANOPARTICLE RESEARCH</i> , 2013 , 15
8.	Avram, M.; Balan, C. M.; Petrescu, I.; Schiopu, V.; Marculescu, C. & Avram, A. Gold Nanoparticle Uptake by Tumour Cells of B16 Mouse Melanoma <i>PLASMONICS</i> , 2012 , 7, 717-724
14.	Structure, morphology and magnetic properties of Fe-Au core-shell nanoparticles By: Pana, O.; Teodorescu, C. M.; Chauvet, O.; Payen, C; Macovei, D; Turcu, R; Soran, ML; Aldea, N; Barbu, L Conference: 24th European Conference on Surface Science (ECOSS-24) Location: Paris, FRANCE Date: SEP 04-08, 2006 <i>SURFACE SCIENCE</i> , 2007 , 601(18), 4352-4357
1.	Dippong, T.; Cadar, O.; Levei, E. A.; Bibicu, I.; Diamandescu, L.; Leostean, C.; Lazar, M.; Borodi, G. & Tudoran, L. B. Structure and magnetic properties of CoFe ₂ O ₄ /SiO ₂ nanocomposites obtained by sol-gel and post annealing pathways <i>CERAMICS INTERNATIONAL</i> , 2017 , 43, 2113-2122
2.	Petkevich, A. V.; Abakshonok, A. V.; Agabekov, V. E.; Eryomin, A. N.; Semashko, T. V. & Mikhailova, R. V. Formation of iron-containing composites <i>RUSSIAN JOURNAL OF GENERAL CHEMISTRY</i> , 2016 , 86, 2385-2393
3.	Stefan, M.; Toloman, D.; Popa, A.; Mesaros, A.; Vasile, O. R.; Leostean, C. & Pana, O. Interface charge transfer process in ZnO:Mn/ZnS nanocomposites <i>JOURNAL OF NANOPARTICLE RESEARCH</i> , 2016 , 18
4.	Shishkovsky, I.; Scherbakov, V. & Morozov, Y. Layerwise laser-assisted sintering and some properties of iron oxide core/PEEK shell magnetic nanocomposites <i>MICROELECTRONIC ENGINEERING</i> , 2015 , 146, 85-91
5.	Nunes, E. d. S.; Viali, W. R.; da Silva, S. W.; Huamani Coaquira, J. A.; Garg, V. K.; de Oliveira, A. C.; Morais, P. C. & Jafelicci Junior, M. Characterization of tetraethylene glycol passivated iron nanoparticles <i>APPLIED SURFACE SCIENCE</i> , 2014 , 315, 337-345
6.	Stefan, M.; Pana, O.; Leostean, C.; Bele, C.; Silipas, D.; Senila, M. & Gautron, E. Synthesis and characterization of Fe ₃ O ₄ -TiO ₂ core-shell nanoparticles <i>JOURNAL OF APPLIED PHYSICS</i> , 2014 , 116
7.	Arantes, F. R. & Cornejo, D. R. Monte Carlo study of the magnetic properties of frozen and non-interacting nanoparticles <i>JOURNAL OF NANOPARTICLE RESEARCH</i> , 2013 , 15

	8.	Avram, M.; Balan, C. M.; Petrescu, I.; Schiopu, V.; Marculescu, C. & Avram, A. Gold Nanoparticle Uptake by Tumour Cells of B16 Mouse Melanoma <i>PLASMONICS</i> , 2012 , 7, 717-724
15.		Influence of microwave frequency electromagnetic radiation on terpene emission and content in aromatic plants By: Soran, ML (Soran, Maria-Loredana) ¹¹ ; Stan, M (Stan, Manuela) ¹¹ ; Niinemets, U (Niinemets, Ulo) ²¹ ; Copolovici, L <i>JOURNAL OF PLANT PHYSIOLOGY</i> , 2014 , 171(15), 1436-1443
	1.	Halmagyi, A.; Surducan, E.; Surducan, V. The effect of low- and high-power microwave irradiation on in vitro grown Sequoia plants and their recovery after cryostorage <i>JOURNAL OF BIOLOGICAL PHYSICS</i> , 2017 , 43(3), 367-379
	2.	Halgamuge, M. N. Review: Weak radiofrequency radiation exposure from mobile phone radiation on plants <i>ELECTROMAGNETIC BIOLOGY AND MEDICINE</i> , 2017 , 36, 213-235
	3.	Lahnine, L.; Idlimam, A.; Mahrouz, M.; Jada, A.; Hanine, H.; Mouhib, M.; Zantar, S. & Kouhila, M. Adsorption measurements and modeling of thyme treated with gamma irradiation and thermal-biochemical treatment <i>INDUSTRIAL CROPS AND PRODUCTS</i> , 2016 , 88, 36-43
	4.	Lahnine, L.; Ouhammou, M.; Idlimam, A.; Mahrouz, M.; Lamharrar, A.; Hanine, H.; Bouchdoug, M. & Kouhila, M. Comparative sorption isotherms of conserved Thymus satureioides <i>MOROCCAN JOURNAL OF CHEMISTRY</i> , 2016 , 4, 128-139
	5.	Araujo, S. d. S.; Paparella, S.; Dondi, D.; Bentivoglio, A.; Carbonera, D. & Balestrazzi, A. Physical Methods for Seed Invigoration: Advantages and Challenges in Seed Technology <i>FRONTIERS IN PLANT SCIENCE</i> , 2016 , 7
	6.	Vian, A.; Davies, E.; Gendraud, M. & Bonnet, P. Plant Responses to High Frequency Electromagnetic Fields <i>BIOMED RESEARCH INTERNATIONAL</i> , 2016
	7.	Jiang, Y.; Ye, J.; Li, S. & Niinemets, U. Regulation of Floral Terpenoid Emission and Biosynthesis in Sweet Basil (<i>Ocimum basilicum</i>) <i>JOURNAL OF PLANT GROWTH REGULATION</i> , 2016 , 35, 921-935
16.		INFLUENCE OF MICROWAVE FIELD ON THE ASCORBIC ACID CONTENT IN LEAVES OF SOME COMMON AROMATIC PLANTS IN ROMANIA By: Stan, Manuela; Soran, Maria Loredana; Varodi, Codruta; Lung, Ildiko STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA Volume: 59 Issue: 1 Pages: 125-133 Published: MAR 2014
	1.	Balint, C. V.; Surducan, V.; Surducan, E. & Oroian, I. G. Plant irradiation device in microwave field with controlled environment <i>COMPUTERS AND ELECTRONICS IN AGRICULTURE</i> , 2016 , 121, 48-56
17.		High-Performance Thin-Layer Chromatographic Quantification of Some Essential Oils from <i>Anethum graveolens</i> Extracts By: Stan, Manuela; Lung, Ildiko; Opris, Ocsana; et al. <i>JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC</i> , 2014 , 27(1), 33-37
	1.	Sherma, J. Biennial Review of Planar Chromatography: 2013-2015

	<i>JOURNAL OF AOAC INTERNATIONAL</i> , 2016 , <i>99</i> , 323-331
2.	Montoro, P.; Masullo, M.; Piacente, S. & Pizza, C. Bagetta, G and Cosentino, M and Sakurada, T (Eds.) Extraction, Sample Preparation, and Analytical Methods for Quality Issues of Essential Oils <i>AROMATHERAPY: BASIC MECHANISMS AND EVIDENCE-BASED CLINICAL USE</i> , 2016 , <i>2</i> , 105-149
3.	Sajewicz, M.; Kowalska, T. & Sherma, J. Grushka, E and Grinberg, N (Eds.) Sample Preparation for Thin Layer Chromatography <i>ADVANCES IN CHROMATOGRAPHY, VOL 53</i> , 2016 , <i>53</i> , 301-329
18.	Determination of some frequently used antibiotics in waste waters using solid phase extraction followed by high performance liquid chromatography with diode array and mass spectrometry detection By: Opris, Oesana; Soran, Maria-Loredana; Coman, Virginia; et al. <i>CENTRAL EUROPEAN JOURNAL OF CHEMISTRY</i> , 2013 , <i>11</i> (8), 1343-1351
1.	Carvalho, I. T. & Santos, L. Antibiotics in the aquatic environments: A review of the European scenario <i>ENVIRONMENT INTERNATIONAL</i> , 2016 , <i>94</i> , 736-757
2.	Yu, X.; Tang, X.; Zuo, J.; Zhang, M.; Chen, L. & Li, Z. Distribution and persistence of cephalosporins in cephalosporin producing wastewater using SPE and UPLC-MS/MS method <i>SCIENCE OF THE TOTAL ENVIRONMENT</i> , 2016 , <i>569</i> , 23-30
3.	Ayankojo, A. G.; Tretjakoy, A.; Reut, J.; Boroznjak, R.; Oepik, A.; Rappich, J.; Furchner, A.; Hinrichs, K. & Syritski, V. Molecularly Imprinted Polymer Integrated with a Surface Acoustic Wave Technique for Detection of Sulfamethizole <i>ANALYTICAL CHEMISTRY</i> , 2016 , <i>88</i> , 1476-1484
4.	Rageh, A. H.; Klein, K.-F. & Pyell, U. Off-line and On-line Enrichment of alpha-Aminocephalosporins for Their Analysis in Surface Water Samples Using CZE Coupled to LIF <i>CHROMATOGRAPHIA</i> , 2016 , <i>79</i> , 225-241
5.	Copaciu, F.; Opris, O.; Niinemets, U. & Copolovici, L. Toxic Influence of Key Organic Soil Pollutants on the Total Flavonoid Content in Wheat Leaves <i>WATER AIR AND SOIL POLLUTION</i> , 2016 , <i>227</i>
6.	Gothwal, R. & Shashidhar, T. Antibiotic Pollution in the Environment: A Review <i>CLEAN-SOIL AIR WATER</i> , 2015 , <i>43</i> , 479-489
7.	Xue, Q.; Qi, Y. & Liu, F. Ultra-high performance liquid chromatography-electrospray tandem mass spectrometry for the analysis of antibiotic residues in environmental waters <i>ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH</i> , 2015 , <i>22</i> , 16857-16867
19.	Effect of microwave irradiation on polyphenolic compounds from <i>Satureja hortensis</i> L. By: Lung, Ildiko; Soran, Maria L.; Tudoran, Cristian; Marutoiu, C <i>CENTRAL EUROPEAN JOURNAL OF CHEMISTRY</i> , 2013 , <i>11</i> (4), 535-541

1.	Tepe, B. & Cilkiz, M. A pharmacological and phytochemical overview on Satureja <i>PHARMACEUTICAL BIOLOGY</i> , 2016 , <i>54</i> , 375-412
2.	Balint, C. V.; Surducan, V.; Surducan, E. & Oroian, I. G. Plant irradiation device in microwave field with controlled environment <i>COMPUTERS AND ELECTRONICS IN AGRICULTURE</i> , 2016 , <i>121</i> , 48-56
3.	Mohammadhosseini, M.; Rezaei, P.; Akbarzadeh, A. & Beiranvand, M. Quantitative Monitoring of the Volatiles from the Aerial Parts of Satureja hortensis by the use of HS-SPME-GC-MS Approach <i>ORIENTAL JOURNAL OF CHEMISTRY</i> , 2016 , <i>32</i> , 2559-2566
4.	Amoah, S. K. S.; Sandjo, L. P.; Kratz, J. M. & Biavatti, M. W. Rosmarinic Acid - Pharmaceutical and Clinical Aspects <i>PLANTA MEDICA</i> , 2016 , <i>82</i> , 388-406
20.	Influence of nine antibiotics on key secondary metabolites and physiological characteristics in Triticum aestivum: Leaf volatiles as a promising new tool to assess toxicity By: Opris, Ocsana; Copaciu, Florina; Soran, Maria Loredana; et al. <i>ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY</i> , 2013 , <i>87</i> (70-79)
1.	Portillo-Estrada, M.; Kazantsev, T. & Niinemets, U. Fading of wound-induced volatile release during Populus tremula leaf expansion <i>JOURNAL OF PLANT RESEARCH</i> , 2017 , <i>130</i> , 157-165
2.	Tsavkelova, E. A.; Egorova, M. A.; Leontieva, M. R.; Malakho, S. G.; Kolomeitseva, G. L. & Netrusov, A. I. Dendrobium nobile Lindl. seed germination in co- cultures with diverse associated bacteria <i>PLANT GROWTH REGULATION</i> , 2016 , <i>80</i> , 79-91
3.	Gao, P.; Zuo, Z.; Wu, X.; Gao, Y.; Gao, R. & Zhang, R. Effects of cycloheximide on photosynthetic abilities, reflectance spectra and fluorescence emission spectra in Phyllostachys edulis <i>TREES-STRUCTURE AND FUNCTION</i> , 2016 , <i>30</i> , 719-732
4.	Yao, F.; Zhaojun, L. & Xiaoqing, H. Impacts of soil organic matter, iron-aluminium oxides and pH on adsorption-desorption behaviors of oxytetracycline <i>RESEARCH JOURNAL OF BIOTECHNOLOGY</i> , 2016 , <i>11</i> , 121-131
5.	Pierattini, E. C.; Francini, A.; Raffaelli, A. & Sebastiani, L. Morpho-physiological response of Populus alba to erythromycin: A timeline of the health status of the plant <i>SCIENCE OF THE TOTAL ENVIRONMENT</i> , 2016 , <i>569</i> , 540-547
6.	Kaushal, M. & Wani, S. P. Rhizobacterial-plant interactions: Strategies ensuring plant growth promotion under drought and salinity stress <i>AGRICULTURE ECOSYSTEMS & ENVIRONMENT</i> , 2016 , <i>231</i> , 68-78 Copaciu, F.; Opris, O.; Niinemets, U. & Copolovici, L. Toxic Influence of Key Organic Soil Pollutants on the Total Flavonoid Content in Wheat Leaves <i>WATER AIR AND SOIL POLLUTION</i> , 2016 , <i>227</i>
7.	Bartikova, H.; Podlipna, R. & Skalova, L.

	Veterinary drugs in the environment and their toxicity to plants <i>CHEMOSPHERE</i> , 2016 , <i>144</i> , 2290-2301
8.	Wang, X.; Ryu, D.; Houtkooper, R. H. & Auwerx, J. Antibiotic use and abuse: A threat to mitochondria and chloroplasts with impact on research, health, and environment <i>BIOESSAYS</i> , 2015 , <i>37</i> , 1045-1053
9.	Michelini, L.; Meggio, F.; Reichel, R.; Thiele-Bruhn, S.; Pitacco, A.; Scattolin, L.; Montecchio, L.; Alberghini, S.; Squartini, A. & Ghisi, R. Sulfadiazine uptake and effects in common hazel (<i>Corylus avellana</i> L.) <i>ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH</i> , 2015 , <i>22</i> , 13362-13371
10.	Timmusk, S.; Abd El-Daim, I. A.; Copolovici, L.; Tanilas, T.; Kannaste, A.; Behers, L.; Nevo, E.; Seisenbaeva, G.; Stenstrom, E. & Niinemets, U. Drought-Tolerance of Wheat Improved by Rhizosphere Bacteria from Harsh Environments: Enhanced Biomass Production and Reduced Emissions of Stress Volatiles <i>PLOS ONE</i> , 2014 , <i>9</i>
11.	Kaennaste, A.; Copolovici, L. & Niinemets, U. RodriguezConcepcion, M (<i>Ed.</i>) Gas Chromatography-Mass Spectrometry Method for Determination of Biogenic Volatile Organic Compounds Emitted by Plants <i>PLANT ISOPRENOIDS: METHODS AND PROTOCOLS</i> , 2014 , <i>1153</i> , 161-169
12.	Blande, J. D.; Holopainen, J. K. & Niinemets, U. Plant volatiles in polluted atmospheres: stress responses and signal degradation <i>PLANT CELL AND ENVIRONMENT</i> , 2014 , <i>37</i> , 1892-1904
13.	Niinemets, U.; Kaennaste, A. & Copolovici, L. Quantitative patterns between plant volatile emissions induced by biotic stresses and the degree of damage <i>FRONTIERS IN PLANT SCIENCE</i> , 2013 , <i>4</i>
21.	Structural Characterization of Zinc Sulphide Thin Films By Radial Distribution Function Analysis Using X-Ray Scattering By: Stefan, M ; Indrea, E ; Popovici, EJ ; Soran, ML; Pana, O Edited by: Lazar, MD Conference: International Conference on Processes in Isotopes and Molecules (PIM) Location: Cluj Napoca, ROMANIA Date: SEP 29-OCT 01, 2011 Sponsor(s): Natl Inst Res & Dev Isotop & Mol Technol (INCDTIM); Romanian Natl Author Sci Res (ANCS) PROCESSES IN ISOTOPES AND MOLECULES (PIM 2011) Book Series: AIP Conference Proceedings, 2012 , <i>1425</i> , 155-158
1.	Taviot-Gueho, C.; Cellier, J.; Bousquet, A. & Tomasella, E. Multiphase Structure Of Tantalum Oxynitride TaOxNy Thin Films Deposited by Reactive Magnetron Sputtering <i>JOURNAL OF PHYSICAL CHEMISTRY C</i> , 2015 , <i>119</i> , 23559-23571
22.	Essentials Oils Determination from <i>Satureja hortensis</i> L. by Chromatographic Techniques By: Soran, Maria-Loredana; Varodi, Codruta; Cobzac, Simona Codruta; Lung, Ildiko <i>JOURNAL OF ESSENTIAL OIL BEARING PLANTS</i> , 2011 , <i>14</i> (6), 699-707
1.	Tepe, B. & Cilkiz, M. A pharmacological and phytochemical overview on <i>Satureja</i>

		<i>PHARMACEUTICAL BIOLOGY</i> , 2016 , <i>54</i> , 375-412
	2.	Mohammadhosseini, M.; Rezaei, P.; Akbarzadeh, A. & Beiranvand, M. Quantitative Monitoring of the Volatiles from the Aerial Parts of <i>Satureja hortensis</i> by the use of HS-SPME-GC-MS Approach <i>ORIENTAL JOURNAL OF CHEMISTRY</i> , 2016 , <i>32</i> , 2559-2566
23.		HPTLC Analysis of Thymol in Extracts of <i>Satureja hortensis</i> L. Obtained by Different Techniques By: Soran, Maria-Loredana; Lung, Ildiko JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC, 2010 , <i>23</i> (5), 320-322
	1.	Tepe, B. & Cilkiz, M. A pharmacological and phytochemical overview on <i>Satureja</i> <i>PHARMACEUTICAL BIOLOGY</i> , 2016 , <i>54</i> , 375-412
	2.	Haque, M. R.; Ansari, S. H.; Najmi, A. K. & Ahmad, M. A. Monoterpene phenolic compound thymol prevents high fat diet induced obesity in murine model <i>TOXICOLOGY MECHANISMS AND METHODS</i> , 2014 , <i>24</i> , 116-123
24.		Separation of Pesticides Mixture by Bidimensional HPTLC By: Tigae, Cristian; Marutoiu, Olivia Florena; Baghina, Narcis Gheorghe; Soran, ML; Simionescu, A ; Marutoiu, C REVISTA DE CHIMIE Volume: 60 Issue: 5 Pages: 494-496 Published: MAY 2009
	1.	Manea, I.; Coatu, V.; Manea, L. C. & Tiganus, D. EVALUATING THE CONTENT OF POLYCYCLIC AROMATIC HYDROCARBONS IN MEAT PRODUCTS BY USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY <i>REVUE ROUMAINE DE CHIMIE</i> , 2015 , <i>60</i> , 537-542
	2.	Sherma, J. Review of advances in the thin layer chromatography of pesticides: 2008-2010 <i>JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART B-PESTICIDES FOOD CONTAMINANTS AND AGRICULTURAL WASTES</i> , 2011 , <i>46</i> , 557-568
	3.	Manea, I. & Manea, L. C. Study on the Content of Polycyclic Aromatic Hydrocarbons in the Water from the Industrial Area <i>REVISTA DE CHIMIE</i> , 2010 , <i>61</i> , 1254-1257
25.		HPTLC Quantification of Some Flavonoids in Extracts of <i>Satureja hortensis</i> L. Obtained by Use of Different Techniques By: Bros, Ildiko; Soran, Maria-Loredana; Briciu, Rodica Domnica; Cobzac, Simona Codruta JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC, 2009 , <i>22</i> (1), 25-28
	1.	Tepe, B. & Cilkiz, M. A pharmacological and phytochemical overview on <i>Satureja</i> <i>PHARMACEUTICAL BIOLOGY</i> , 2016 , <i>54</i> , 375-412
	2.	Mohammadhosseini, M.; Rezaei, P.; Akbarzadeh, A. & Beiranvand, M. Quantitative Monitoring of the Volatiles from the Aerial Parts of <i>Satureja hortensis</i> by the use of HS-SPME-GC-MS Approach <i>ORIENTAL JOURNAL OF CHEMISTRY</i> , 2016 , <i>32</i> , 2559-2566
	3.	Guine, R. P. F. & Goncalves, F. J. Chemistry and Health Effects of Bioactive Compounds in Selected Culinary Aromatic Herbs

	<i>CURRENT NUTRITION & FOOD SCIENCE</i> , 2015 , <i>11</i> , 145-164
4.	Altemimi, A.; Watson, D. G.; Kinsel, M. & Lightfoot, D. A. Simultaneous extraction, optimization, and analysis of flavonoids and polyphenols from peach and pumpkin extracts using a TLC-densitometric method <i>CHEMISTRY CENTRAL JOURNAL</i> , 2015 , <i>9</i>
5.	Sima, I. A.; Sarbu, C. & Nascu-Briciu, R. D. Use of TLC and UV-Visible Spectrometry for Fingerprinting of Dietary Supplements <i>CHROMATOGRAPHIA</i> , 2015 , <i>78</i> , 929-935
6.	Moghaddam, M. & Mehdizadeh, L. Variability of total phenolic, flavonoid and rosmarinic acid content among Iranian basil accessions <i>LWT-FOOD SCIENCE AND TECHNOLOGY</i> , 2015 , <i>63</i> , 535-540
7.	Coran, S. A.; Mulas, S. & Mulinacci, N. Crucial aspects of high performance thin layer chromatography quantitative validation. The case of determination of rosmarinic acid in different matrices <i>JOURNAL OF CHROMATOGRAPHY A</i> , 2012 , <i>1220</i> , 156-161
8.	Fazakas, L. A.; Nascu-Briciu, R. D. & Sarbu, C. A COMPARATIVE STUDY CONCERNING THE IMAGE ANALYSIS IN THIN LAYER CHROMATOGRAPHY OF FLUORESCENT COMPOUNDS <i>JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES</i> , 2011 , <i>34</i> , 2315-2325
9.	Nascu-Briciu, R. D.; Cobzac, S. C. & Baci, S. OPTIMUM ULTRASOUND ASSISTED EXTRACTION CONDITIONS OF SOME FLAVONOIDS FROM GREEN TEA LEAVES. CONTROL QUALITY OF GREEN TEA PRODUCT BY TLC FINGERPRINTING <i>ANALYTICAL LETTERS</i> , 2011 , <i>44</i> , 2865-2875
10.	Hadian, J.; Ebrahimi, S. N. & Salehi, P. Variability of morphological and phytochemical characteristics among <i>Satureja hortensis</i> L. accessions of Iran <i>INDUSTRIAL CROPS AND PRODUCTS</i> , 2010 , <i>32</i> , 62-69
26.	Microwave Assisted Thin-Layer Chromatography - an Improved Separation Technique By: Soran, ML; Bros, I; Surducun, E; Surducun, V <i>JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC</i> , 2008 , <i>21(4)</i> , 243-248
1.	Carballo, S.; Prats, S.; Maestre, S. & Todoli, J.-L. Determination of fat-soluble vitamins in vegetable oils through microwave-assisted high-performance liquid chromatography <i>JOURNAL OF SEPARATION SCIENCE</i> , 2015 , <i>38</i> , 1073-1081
2.	Kalasz, H. Forced-Flow Planar Chromatography in the Rear View Mirror <i>JOURNAL OF CHROMATOGRAPHIC SCIENCE</i> , 2015 , <i>53</i> , 436-442
3.	Sherma, J. Review of advances in the thin layer chromatography of pesticides: 2008-2010 <i>JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART B-PESTICIDES FOOD CONTAMINANTS AND AGRICULTURAL WASTES</i> , 2011 , <i>46</i> , 557-568

	4.	Sherma, J. Planar Chromatography <i>ANALYTICAL CHEMISTRY</i> , 2010 , 82, 4895-4910
27.		Use of Di(n-butyl) and Di(iso-butyl)dithiophosphoric acids as complexing agents in the TLC separation of some d and f transition metal ions By: Curtui, M; Soran, ML JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC, 2007 , 20(2), 153-158
	1.	A Specific Chromogenic Reagent for Detection of Diazepam among Other Benzodiazepines from Biological and Nonbiological Samples after HPTLC By: Daundkar, Balasaheb B.; Malve, Madhukar K.; Krishnamurthy, Rukmani Conference: 8th International Symposium on Chromatography of Natural Products Location: Lublin, POLAND Date: JUN 15-18, 2008 JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC, 2008 , 21(4), 249-250
28.		TLC separation of metal ions using di(n-butyl)dithiophosphoric acid and neutral organophosphorus ligands By: Curtui, M (Curtui, Maria); Soran, ML (Soran, Maria-Loredana) JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC, 2006 , 19(110), 297-301
	1.	Planar chromatography By: Sherma, Joseph <i>ANALYTICAL CHEMISTRY</i> , 2008 , 80(12), 4253-4267
		Total citari (NC) 150