UNIVERSITATEA DIN CRAIOVA
FACULTATEA DE STIINTE EXACTE
DEPARTAMENTUL DE FIZICA
Petre ROTARU

FISA DE ÎNDEPLINIRE A STANDARDELOR COMISIEI DE FIZICÂ

ACTIVITATEA DIDACTICA SI PROFESIONALA (A1)

A1.1 Carti si capitole in carti de specialitate				
Titlu	**Autori**	**Editura**	**ISBN**	**Punctaj***
Noțiuni de Fizica suprafețelor	Rotaru Petre	Editura Universitaria Craiova, 2010	ISBN 978-606-14-016-4	0.2
Teorema variației energiei cinetice aplicată la rezolvarea unor probleme de Fizică	Voiculescu Valeriu, Rotaru Petre	Editura SITECH Craiova, 2000	ISBN 973-8025-66-5	0.2
Fizică generală. Mecanică	Rotaru Petre	Editura Universitaria Craiova, 1998	ISBN 973-9271-24-2	0.2
Proprietăți termice şi procese termice ale materialelor	Rotaru Petre	Editura SITECH Craiova, 2010	ISBN 978-606-11-0837-4	0.2
Total activitatea A1.1				**0.8**
A1.2 Material didactic/ lucrari didactice				
Titlu	**Autori**	**Editura**	**Tip(manual/ indrumator)**	**Punctaj***
Culegere de probleme de Fizică	Tătar L, Uliu FS, Marinescu E, Rotaru P, Socaciu M, Hărăbor V, Hărăbor A.	Reprografia Universității din Craiova, 1991, 252 pagini	Indrumar de seminar	0.2
Lucrări practice de Fizică	Uliu FS, Bunescu O, Dumitriu MT, Marinescu E, Tutunaru M, Arnăutu M, Filipaş T, Hărăbor A, Hărăbor V, Rotaru P, Socaciu M, Stoenescu G.	Reprografia Universității din Craiova, 1991, 191 pagini	Indrumar de laborator	0.2
Total activitatea A1.2				**0.4**
A1.3 Brevete de inventie				
Titlu	**Autori**	**An obtinere**	**Tip (national/international)**	**Punctaj***
Material biocomposit pentru grefe pe ţesutul osos trabecular care contine	Pascu CI, Gingu O, Ciupitu I, Rotaru P.	RO125714/2010	National	0.2

particule nanometrice cristaline de hidroxiapatita şi titan				
Procedeu de crestere a rezistentei catalizatorilor si suporturilor pentru catalizatori	Blejoiu SI, Popa O, Vadeanu V, Cioroianu T, Rotaru P.	RO104479/1991	National	0.2
Catalizator pentru oxidarea partiala a hidrocarburilor si procedeu de obtinere a acestuia	Blejoiu SI, Popa O, Vadeanu V, Cioroianu T, Rotaru P, Artene G, Stancu	RO99376/1989	National	0.2
Catalizator pentru metanarea oxizilor de carbon si procedeu de obtinere a acestuia	Blejoiu SI, Vadeanu V, Dunăreanu M, Rotaru P, Artene G, Popa G.	RO90188/1986	National	0.2
Procedeu de obtinere a unui catalizator pentru conversia oxidului de carbon	Blejoiu SI, Popa O, Artene G, S.I.Blejoiu, O.Popa, Gh.Artene, Popa G. Georgescu G, Rotaru P.	RO73243/1979	National	0.2
Total activitatea A1.3				**1.0**
A1.4 Coordonare de programe de studii, organizare si coordonare programe de formare continua si proiecte educationale.Granturi/proiecte de cercetare in valoare de peste 100000 euro, castigate prin competitie				
Titlu		**Director/ responsabil**		**Punctaj***
Grant MAKIS: Dezvoltarea unor noi fertilizanți organo-minerali şi implementarea unui management integrat al administrarii acestora în scopul protecției mediului, conservării si utilizării durabile a resurselor naturale, nr. 135080/06.04.2009, Finanțare:Banca Mondială, Beneficiar:ICPA Bucureşti.Valoare totala:166 295 Euro		Responsabil		0.4
Fizica Mediului - Colegiu		Coordonator		0.4
Master Fizica Materialelor		Coordonator		0.4
Siinte – Curs postuniversitar de formare continua		Coordonator		0.4
Total activitatea A1.4				**1.6**
Total activitatea A1				**3.8**

ACTIVITATEA DE CERCETARE (A2)

A2.1 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings				
Titlu	**Autori**	**Revista, an, vol, pag.**	**Scor de influenta absolut**	**Punctaj* I**
Reviste cotate ISI din străinătate				
1. Optical and Mossbauer study of the real time holographic organometallic material Fe:PVA	V. Kuncser, A. Avramescu, G. Filoti, P. Rotaru, R. Podgorsek, M. Biebricher, H. Franke.	*Journal of Alloys and Compounds,* vol.256, 1997, pag.269-275	0.471/5.666	**0.0831**

2. Mossbauer Spectroscopy Applied to Radioactive Waste Processing	G. Filoti, V. Kuncser, I. Prisecaru, P. Rotaru, C.N. Turcanu.	*Hyperfine Interaction,* vol.112(1-4), 1998, pag.201-204	0.162/5	**0.0324**
3. Perfectly stirred catalytic reactor	P. Rotaru, S. I. Blejoiu, R. Constantinescu, N. Pometescu, F. Uliu, O. Bunescu.	*Applied Catalysis. A: General,* vol.166(2), 1998, pag.363-373	0.972/5.333	**0.1822**
4. The Anomalous particle flux induced by electromagnetic tubulence	N. Pometescu, M. Negrea, P. Rotaru.	*Plasma Physics and Controlled Fusion,* vol.40, 1998, pag.1383-1398	1.228/3	**0.4093**
5. Kinetics and mechanism of CO_2 methanation on a nickel catalyst	P. Rotaru, S.I. Blejoiu.	*Journal of Indian Chemical Society*, vol.78(7), 2001, pag.343-351	0.067/2	**0.0335**
6. Kinetics and mechanism of reverse water-gas shift reaction on a *Cu-ZnO-*Al_2O_3 catalyst.	P. Rotaru, S.I. Blejoiu.	*Journal of Indian Chemical Society*, vol.78(7), 2001, pag.352-359	0.067/2	**0.0335**
7. Influence of tabletting pressure upon internal morphology of a Fe_2O_3-Cr_2O_3 catalyst.	P. Rotaru, S. I. Blejoiu.	*European Physical Journal - Applied Physics,* vol.16(3), 2001, pag.167-173	0.309/2	**0.1545**
8. Maximum conversion in presence of iert gas.	V. Voiculescu, P. Rotaru, C. Spanu, M. Mateescu.	*Journal of Indian Chemical Society*, vol.80(2) 2003, pag.110-119	0.067/4	**0.0167**
9. Influence of inert gas on isoconversion curves and equilibrium conversion	V. Voiculescu, M. Mateescu, S.I. Blejoiu, P. Rotaru.	*Journal of Indian Chemical Society*, vol.80(2), 2003, pag.120-126	0.067/4	**0.0167**
10. Optical and electronic properties of polyvinyl alcohol doped with pairs of mixed valence metal ions	M. Bulinski, V. Kuncser, C. Plapcianu, S. Krautwald, H. Franke, P Roatru, G. Filoti.	*Journal of Physics D: Applied Physics,* vol. 37, 2004, pag 2437-2441	0.905/5.666	**0.1597**
11. The influence of the tabletting pressure upon the textural and diffusional properties of a Fe_2O_3-Cr_2O_3 catalyst	P. Rotaru, S. I. Blejoiu, M. Stanciu, G. Stoenescu, M. Mateescu, V. Voiculescu.	*Microporous and Mesoporous Materials*, vol. 83, 2005, pag. 159-164	0.835/5.333	**0.1565**
12. Optimization of multiple layer semiconductor waveguides	V. Calian, G. Stoenescu, M. Ursache, M. Socaciu, P. Rotaru.	*Thin Solid Films,* vol. 474, 2005 pag 197– 200	0.642/5	**0.1284**
13. Thermal decomposition kinetics of some aromatic azomonoethers. Part II. Non isothermal study of three liquid	A. Rotaru, A. Kropidlowska, A. Moanta, P. Rotaru, E. Segal.	*Journal of Thermal Analysis and Calorimetry,* vol.92(1), 2008, pag. 233-238	0.264/5	**0.0528**

crystals in dynamic air atmosphere				
14. Thermal analysis and thin films deposition by matrix assisted pulsed laser evaporation of a 4CN type azomonoether.	A. Rotaru, C Constantinescu, P. Rotaru, A. Moanta, M. Dumitru, M. Socaciu, M. Dinescu, E. Segal.	*Journal of Thermal Analysis and Calorimetry,* vol.92(1), 2008, pag. 279-284	0.264/6	**0.0440**
15. Thermal characterization of humic acids and other components of raw coal	A. Rotaru, I. Nicolaescu, P. Rotaru, C. Neaga.	*Journal of Thermal Analysis and Calorimetry,* vol.92(1), 2008, pag. 297-300	0.264/4	**0.0660**
16. Computational thermal and kinetic analysis. Software for non-isothermal kinetics by standard procedure	A. Rotaru, M. Goşa, P. Rotaru.	*Journal of Thermal Analysis and Calorimetry,* vol.94(2), 2008, pag. 367-371	0.264/3	**0.0880**
17. Thermal decomposition kinetics of some aromatic azomonoethers. Part III. Non-isothermal study of 4-[(4-chlorobenzyl)oxy]-4'-chloroazobenzene in dynamic air atmosphere	A. Rotaru, A. Moanta, P. Rotaru, E. Segal.	*Journal of Thermal Analysis and Calorimetry,* vol.95(1), 2009, pag. 161-166	0.264/4	**0.0660**
18. CdS thin films obtained by thermal treatment of cadmium(II) complex precursor deposited by MAPLE technique	A. Rotaru, A. Mietlarek-Kropidłowska, C. Constantinescu, N. Scărisoreanu, M. Dumitru, M. Strankowski, P. Rotaru, V. Ion, C. Vasiliu, B. Becker, M. Dinescu.	*Applied Surface Science* vol. 255(15), 2009, pag. 6786–6789	0.554/7	**0.0791**
19. Thermal analysis of azoic dyes: Part I. Non-isothermal decomposition kinetics of [4-(4-chlorobenzyloxy)-3-methylphenyl](*p*-tolyl)diazene in dynamic air atmosphere	A. Rotaru, G. Bratulescu, P. Rotaru.	*Thermochimica Acta,* vol. 489(1-2), 2009, pag. 63–69	0.581/3	**0.1936**
20. Thermal characteristics of Ni–Ti SMA (shape memory alloy) actuators	S. Degeratu, P. Rotaru, Gh. Manolea, H. O. Manolea, A. Rotaru.	*Journal of Thermal Analysis and Calorimetry,* vol.97(2), 2009, pag. 695-700	0.264/5	**0.0528**
21. Thermal decomposition kinetics of some aromatic azomonoethers. Part IV. Non-isothermal kinetics of 2-allyl-4-((4-(4-methylbenzyloxy)phenyl) diazenyl)phenol in air flow	A. Rotaru, A. Moanță, G. Popa, P. Rotaru, E. Segal.	*Journal of Thermal Analysis and Calorimetry,* vol.97(2), 2009, pag. 485-491	0.264/5	**0.0528**
22. Matrix assisted pulsed laser	A. Rotaru, C. Constantinescu, A.	*Thermochimica Acta,* vol.	0.581/6	**0.0968**

evaporation of zinc benzoate for ZnO thin films and non-isothermal decomposition kinetics	Mândruleanu, P.Rotaru, A. Moldovan, K. Győryová, M. Dinescu, V. Balek.	498(1-2), 2010, pag. 81–91		
23. Thermal behaviour and spectroscopic investigation of some methyl 2-pyridyl ketone complexes	M. Tătucu, P. Rotaru, I. Rău, C. Spînu, A. Kriza.	*Journal of Thermal Analysis and Calorimetry,* vol.100(3), 2010, pag. 1107-1114	0.264/5	**0.0528**
24. Thermal analysis of a calcium fructoborate sample	P. Rotaru, R. Scorei, A. Hărăbor, M.D. Dumitru.	*Thermochimica Acta,* 506, 2010, 8–13	0.581/4	**0.1452**
25. Structural characterization, thermal investigation and liquid crystalline behavior of 4-[(4-chlorobenzyl)oxy]-3,4'-dichloroazobenzene	A. Moanta, C. Ionescu, P. Rotaru, M. Socaciu, A. Hărăbor.	*Journal of Thermal Analysis and Calorimetry,* vol.102(3), 2010, pag. 1079-1086	0.264/5	**0.0528**
26. Wear behaviour of ceramic biocomposites based on hydroxiapatite nanopowders	O. Gingu, G. Benga, A. Olei, N. Lupu, P. Rotaru, S. Tanasescu, M. Mangra, I. Ciupitu, I. Pascu, G. Sima.	*Journal of Process Mechanical Engineering* vol.225(1), 2011, pag. 62-71	0.214/6.666	**0.0321**
27. Thermal and microstructural analysis of Cu(II) 2,2'-dihydroxy azobenzene and thin films deposition by MAPLE technique	C. Constantinescu, E. Morîntale, A. Emandi, M. Dinescu, P. Rotaru.	*Journal of Thermal Analysis and Calorimetry,* vol.104(2), 2011, pag. 707-716	0.264/5	**0.0528**
28. Calcium Fructoborate—Potential Anti-inflammatory Agent	R.I. Scorei, P. Rotaru.	*Biological Trace Element Research,* vol.143(3), 2011, pag. 1223-1238	0.277/2	**0.1385**
29. Thermal, morphological and optical investigations of $Cu(DAB)_2$ thin films produced by matrix assisted pulsed laser evaporation and laser-induced forward transfer for sensor development	C. Constantinescu, E. Morîntale, V. Ion, A. Moldovan, C. Luculescu, M. Dinescu, P. Rotaru.	*Thin Solid Films,* vol. 520(11), 2012, pag 3904-3909	0.642/5.666	**0.1132**
30. Experimental approach of co-firing and anaerobic fermentation of biomass and coal, and their thermochemical properties	A.E. Cioablă, G. Trif Tordai, P. Rotaru, M. Socaciu, I. Ionel	*Journal of Thermal Analysis and Calorimetry,* vol.110(1), 2012, pag. 395-403	0.264/5	**0.0528**
31. Thermal and spectral behavior of $(Y,Eu)VO_4$ powder	A. Hărăbor, P. Rotaru, N.A. Hărăbor	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1211-1219	0.264/3	**0.0880**

32. Thermal study of a shape memory alloy (SMA) spring actuator designed to insure the motion of a barrier structure	S. Degeratu, P. Rotaru, S. Rizescu, N.G. Bîzdoacă.	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1255-1262	0.264/4	**0.0660**
33. Spectral and thermal studies of 4-(phenyldiazenyl)phenyl 2-furoate as corrosion inhibitor for carbon steel	A. Moanță, B. Tutunaru, P. Rotaru.	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1273-1279	0.264/3	**0.0880**
34. Bulk titanium for structural and biomedical applications obtaining by spark plasma sintering (SPS) from titanium hydride powder	C.I. Pascu, O. Gingu, P. Rotaru, I. Vida-Simiti, A. Hărăbor, N. Lupu.	*Journal of Thermal Analysis and Calorimetry,* vol.113(2), 2013, pag. 849-857	0.264/5.333	**0.0495**
35. Thermal and spectral behaviour of a light-cured methacrylate-based composite material used in dentistry	H.O. Manolea, P. Rotaru, G. Manolea, E. Morîntale, R. Rîcă.	*Journal of Thermal Analysis and Calorimetry,*vol.114(2), 2013, pag. 1325-1331	0.264/5	**0.0528**
36. Optical, morphological and thermal behaviour of NdFeB magnetic thin films grown by radiofrequency plasma-assisted pulsed laser deposition	C. Constantinescu, V. Ion, M. Codescu, P. Rotaru, M. Dinescu	*Current Applied Physics,* vol.13(9), 2013, pag. 2019-2025	0.499/5	**0.0999**
37. Thermal properties, texture, second order stress and magnetic susceptibility of the $Bi_{1.8}Pb_{0.3}Sr_2Ca_2Cu_{3.3}O_x$	A. Harabor, P. Rotaru, N. A. Harabor	*Journal of Thermal Analysis and Calorimetry,* vol.118(1), 2014, pag. 227-234	0.262/3	**0.0873**
38. Aminophylline: thermal characterization and its inhibitory properties for the carbon steel corrosion in acidic environment	A. Samide, B. Tutunaru, C. Ionescu, P. Rotaru, L. Simoiu	*Journal of Thermal Analysis and Calorimetry,* vol.118(2), 2014, pag. 631-639	0.262/5	**0.0524**
39. Thermal behaviour and adsorption properties of some benzothiazole derivatives	A. Samide, P. Rotaru, C. Ionescu, B. Tutunaru, A. Moanta, V. Barragan-Montero	*Journal of Thermal Analysis and Calorimetry,* vol.118(2), 2014, pag. 651-659	0.262/5.333	**0.0491**
40. Shape memory alloy-based smart module structure working under intense thermo-mechanical stress	S. Danoiu, P. Rotaru, S. Degeratu, S. Rizescu, N.G. Bizdoaca	*Journal of Thermal Analysis and Calorimetry,* vol.118(2), 2014, pag. 1323-1330	0.262/5	**0.0524**
41. Non-conventional hexagonal	A. Harabor, P. Rotaru, R.I. Scorei, N.	*Journal of Thermal Analysis*	0.262/4	**0.0655**

structure for boric acid	A. Harabor	*and Calorimetry,* vol.118(2), 2014, pag. 1375-1384		
42. Synthesis and characterization of novel furoate azodye using spectral and thermal methods of analysis	A. Moanta, A. Samide, P. Rotaru, C. Ionescu, B. Tutunaru	*Journal of Thermal Analysis and Calorimetry,* vol.119(2), 2015, pag. 1139-1145	0.262/5	**0.0524**
43. Condition monitoring of transformer oil using thermal analysis and other techniques	S. Degeratu, P. Rotaru, S. Rizescu, S. Danoiu, N. G. Bizdoaca, L. I. Alboteanu, H. O. Manolea	*Journal of Thermal Analysis and Calorimetry,* vol.119(3), 2015, pag. 1679-1692	0.262/5.666	**0.0462**
44. Pulsed laser processing of poly(3,3'''-didodecyl quarter thiophene) semiconductor for organic thin film transistors	C. Constantinescu, L. Rapp, P. Rotaru, P. Delaporte, A.P. Alloncle	*Chemical Physics,* vol.450-451, 2015, pag. 32–38	0.5760/5	**0.1152**
45. In-situ synthesis of AgCu/Cu_2O nanocomposite by mechanical alloying: the effect of the processing on the thermal behaviour	O. Gingu, P. Rotaru, A. Milea, A. Marin, C. Nicolicescu, G. Sima, S. Tanasescu	*Thermochimica Acta,* vol.606, 2015, pag. 1-11	0.5170/5.666	**0.0912**
46. New complexes with 2-pyridyl ketone Schiff bases. Synthesis, structural analysis and thermal studies	M. Popescu, P. Rotaru, M. V. Bubulica, A. Kriza	*Journal of Thermal Analysis and Calorimetry,* vol.120(1), 2015, pag. 641-652	0.262/4	**0.0655**
47. A new azo-ester: 4-(phenyldiazenyl)phenyl benzene sulfonate—spectral, thermal, and electrochemical behavior and its antimicrobial activity	A. Moanta, C. Ionescu, M. Dragoi, B. Tutunaru, P. Rotaru	*Journal of Thermal Analysis and Calorimetry,* vol.120(2), 2015, pag. 1151-1161	0.262/5	**0.0524**
Reviste cotate ISI din țară				
48. Methode pour le calcule de la chaleur de decomposition a l'aide des données thermogravimetriques	P. Rotaru, G. Niac, S.I. Blejoiu.	*Revue Roumaine de Chimie,* vol.23, nr.4, 1978, pag.489-493	0.051/3	**0.0170**
49. Influenta regimului de calcinare asupra proprietatilor catalizatorului de Fe-Cr pentru conversia oxidului de carbon cu vapori de apa	S.I. Blejoiu , P. Rotaru, A. Szabo, I. Brasoveanu, L. Nistor, V. Teodorescu, L. Unguru, I. V. Nicolescu.	*Revista de Chimie,* vol.29(7), 1978, pag.635-641	0.040/6	**0.0066**

50. Corelarea unor parametri texturali cu caracteristicile difuzionale ale catalizatorului Fe_2O_3-Cr_2O_3 pentru conversia oxidului de carbon	S. I. Blejoiu, A. Szabo, P. Rotaru, I. Brasoveanu, I.V. Nicolescu.	*Revista de Chimie,* vol.29(10), 1978, pag.933-938	0.040/5	**0.0080**
51. A study of some properties of Fe-Cr high temperature shift conversion catalyst	O. Popa, P. Rotaru, S.I. Blejoiu, L. Pandele, O. Bunescu, I. Brasoveanu, D.I. Marchidan.	*Revue Roumaine de Chimie,* vol.24(1), 1979, pag.153-158	0.051/5.666	**0.0090**
52. Structural investigation of iron – chromium high temperature shift conversion catalyst.	G. Filoti, L. Nistor, I. Doca, I. Brasoveanu, V. Spanu, V. Teodorescu, P. Rotaru, S. I. Blejoiu.	*Revue Roumaine de Chimie,* vol.24(8), 1979, pag.1101-1105	0.051/6	**0.0085**
53. Macrocinetica procesului de conversie a oxidului de carbon pe catalizator oxidic fier-crom. I. Obtinerea datelor cinetice.	P. Rotaru, I. Siminiceanu, L. Unguru, S. Blejoiu, I. Bucur.	*Revista de Chimie,* vol.31(2), 1980, pag.149-151	0.040/5	**0.0080**
54. Structural strains appearing in the high temperature shift conversion Fe-Cr catalyst.	I. Brasoveanu, S.I. Blejoiu, A. Szabo, P. Rotaru, I.V. Nicolescu.	*Revue Roumaine de Chimie,* vol.25(8), 1980, pag.1159-1169	0.051/5	**0.0102**
55. Macrocinetica procesului de conversie a oxidului de carbon pe catalizator oxidic fier-crom. II. Interpretarea datelor cinetice	I. Siminiceanu, P. Rotaru, C. Calistru, L. Unguru, S. Blejoiu, I. Bucur.	*Revista de Chimie,* vol.32(1), 1981, pag.41-47	0.040/5.333	**0.0075**
56. Method for determining effective diffusion coefficient of gases in catalyst pellets	Gy. Steinbrecher, P. Rotaru, L. Saliu, O. Bunescu, N. Mureşan, I. Bucur.	*Revue Roumaine de Chimie,* vol.26(8), 1981, pag.1077-1083	0.051/5.333	**0.0095**
57. Electrical conduction in nickel – alumina catalyst	O. Bunescu, P. Rotaru, S. I. Blejoiu.	*Revue Roumaine de Chimie,* vol.26(11-12), 1981, pag.1393-1399	0.051/3	**0.0170**
58. The influence of sodium concentration upon the ZnO crystallite size in the Cu-Zn-Al oxidic catalysts for shift conversion	S. I. Blejoiu, T. Cioroianu, V. Vădeanu, P. Rotaru, O. Bunescu.	*Revue Roumaine de Chimie,* vol.38(6), 1993, pag.633-641	0.051/5	**0.0102**
59. X – Ray diffraction analysis of the Ni-NiO-diatomite system	S.I. Blejoiu, T. Cioroianu, P. Rotaru, O. Bunescu, M. Toană, G. Munteanu, N. Stănică, V. Vădeanu.	*Revue Roumaine de Chimie,* vol.38(8), 1993, pag.921-926	0.051/6	**0.0085**
60. Determinarea activitatii catalizatorilor de sinteza a amoniacului	I. Bucur, G. Niac, C. Becherescu, P. Rotaru.	*Revista de Chimie,* vol.47(11), 1996, pag.1032-	0.040/4	**0.0100**

la 25 de _tmosphere		1038		
61. Proportia optima de amestecare a reactantilor in reactiile de oxidare cu aer	V. Voiculescu, M. Mateescu, C. Spînu, P. Rotaru.	*Rev. Chim. (Bucuresti)* vol.51(11), 2000, pag.860-867	0.040/4	**0.0100**
62. Synthesis and characterization of Cu(II), Ni(II) and Co(II) binuclear complexes with a new Schiff base (1,3-bis[ortho-(2-carboxy-phenyliminomethyl)-phenoxy]propane)	F. Ciolan, L. Patron, M. Mureşeanu, P, Rotaru, I. Georgescu.	*Rev. Chim. (Bucuresti)* vol.63(1), 2012, pag.34-39	0.040/5	**0.0080**
Total activitate A2.1				**4.1604**
A2.2 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings pentru care candidatul este prim autor sau autor corespondent				
Titlu	**Autori**	**Revista, an, vol, pag.**	**Scor de influenta absolut**	**Punctaj* P**
Reviste cotate ISI din străinătate				
3. Perfectly stirred catalytic reactor	P. Rotaru, S. I. Blejoiu, R. Constantinescu, N. Pometescu, F. Uliu, O. Bunescu.	*Applied Catalysis. A: General,* vol.166(2), 1998, pag.363-373	0.972	**0.972**
5. Kinetics and mechanism of CO_2 methanation on a nickel catalyst	P. Rotaru, S.I. Blejoiu.	*Journal of Indian Chemical Society*, vol.78(7), 2001, pag.343-351	0.067	**0.067**
6. Kinetics and mechanism of reverse water-gas shift reaction on a *Cu-ZnO*-Al_2O_3 catalyst.	P. Rotaru, S.I. Blejoiu.	*Journal of Indian Chemical Society*, vol.78(7), 2001, pag.352-359	0.067	**0.067**
7. Influence of tabletting pressure upon internal morphology of a Fe_2O_3-Cr_2O_3 catalyst.	P. Rotaru, S. I. Blejoiu.	*European Physical Journal - Applied Physics,* vol.16(3), 2001, pag.167-173	0.309	**0.309**
11. The influence of the tabletting pressure upon the textural and diffusional properties of a Fe_2O_3-Cr_2O_3 catalyst	P. Rotaru, S. I. Blejoiu, M. Stanciu, G. Stoenescu, M. Mateescu, V. Voiculescu.	*Microporous and Mesoporous Materials*, vol. 83, 2005, pag. 159-164	0.835	**0.835**
23. Thermal behaviour and spectroscopic investigation of some methyl 2-pyridyl ketone complexes	M. Tătucu, P. Rotaru, I. Rău, C. Spînu, A. Kriza.	*Journal of Thermal Analysis and Calorimetry,* vol.100(3), 2010, pag. 1107-1114	0.264	**0.264**
24. Thermal analysis of a calcium	P. Rotaru, R. Scorei, A. Hărăbor, M.D.	*Thermochimica Acta,* 506	0.581	**0.581**

fructoborate sample	Dumitru.	(2010) 8–13		
25. Structural characterization, thermal investigation and liquid crystalline behavior of 4-[(4-chlorobenzyl)oxy]-3,4'-dichloroazobenzene	A. Moanta, C. Ionescu, P. Rotaru, M. Socaciu, A. Hărăbor.	*Journal of Thermal Analysis and Calorimetry,* vol.102(3), 2010, pag. 1079-1086	0.264	**0.264**
27. Thermal and microstructural analysis of Cu(II) 2,2'-dihydroxy azobenzene and thin films deposition by MAPLE technique	C. Constantinescu, E. Morîntale, A. Emandi, M. Dinescu, P. Rotaru.	*Journal of Thermal Analysis and Calorimetry,* vol.104(2), 2011, pag. 707-716	0.264	**0.264**
30. Experimental approach of co-firing and anaerobic fermentation of biomass and coal, and their thermochemical properties	A.E. Cioablă, G. Trif Tordai, P. Rotaru, M. Socaciu, I. Ionel	*Journal of Thermal Analysis and Calorimetry,* vol.110(1), 2012, pag. 395-403	0.264	**0.264**
32. Thermal study of a shape memory alloy (SMA) spring actuator designed to insure the motion of a barrier structure	S. Degeratu, P. Rotaru, S. Rizescu, N.G. Bîzdoacă.	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1255-1262	0.264	**0.264**
33. Spectral and thermal studies of 4-(phenyldiazenyl)phenyl 2-furoate as corrosion inhibitor for carbon steel	A. Moanţă, B. Tutunaru, P. Rotaru.	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1273-1279	0.264	**0.264**
35. Thermal and spectral behaviour of a light-cured methacrylate-based composite material used in dentistry	H.O. Manolea, P. Rotaru, G. Manolea, E. Morîntale, R. Rîcă.	*Journal of Thermal Analysis and Calorimetry,*vol.114(2), 2013, pag. 1325-1331	0.262	**0.262**
40. Shape memory alloy-based smart module structure working under intense thermo-mechanical stress	S. Danoiu, P. Rotaru, S. Degeratu, S. Rizescu, N.G. Bizdoaca	*Journal of Thermal Analysis and Calorimetry,* vol.118(2), 2014, pag. 1323-1330	0.262/5	**0.262**
41. Non-conventional hexagonal structure for boric acid	A. Harabor, P. Rotaru, R.I. Scorei, N. A. Harabor	*Journal of Thermal Analysis and Calorimetry,* vol.118(2), 2014, pag. 1375-1384	0.262	**0.262**
42. Synthesis and characterization of novel furoate azodye using spectral and thermal methods of analysis	A. Moanta, A. Samide, P. Rotaru, C. Ionescu, B. Tutunaru	*Journal of Thermal Analysis and Calorimetry,* vol.119(2), 2015, pag. 1139-1145	0.262	**0.262**

43. Condition monitoring of transformer oil using thermal analysis and other techniques	S. Degeratu, P. Rotaru, S. Rizescu, S. Danoiu, N. G. Bizdoaca, L. I. Alboteanu, H. O. Manolea	*Journal of Thermal Analysis and Calorimetry,* vol.119(3), 2015, pag. 1679-1692	0.262	**0.262**
45. In-situ synthesis of AgCu/Cu_2O nanocomposite by mechanical alloying: the effect of the processing on the thermal behaviour	O. Gingu, P. Rotaru, A. Milea, A. Marin, C. Nicolicescu, G. Sima, S. Tanasescu	*Thermochimica Acta,* vol.606, 2015, pag. 1-11	0.5170	**0.517**
47. A new azo-ester: 4-(phenyldiazenyl)phenyl benzene sulfonate—spectral, thermal, and electrochemical behavior and its antimicrobial activity	A. Moanta, C. Ionescu, M. Dragoi, B. Tutunaru, P. Rotaru	*Journal of Thermal Analysis and Calorimetry,* vol.120(2), 2015, pag. 1151-1161	0.2620	**0.262**
Reviste cotate ISI din țară				
48. Methode pour le calcule de la chaleur de decomposition a l'aide des données thermogravimetriques	P. Rotaru, G. Niac, S.I. Blejoiu.	*Revue Roumaine de Chimie,* vol.23, nr.4, 1978, pag.489-493	0.051	**0.051**
53. Macrocinetica procesului de conversie a oxidului de carbon pe catalizator oxidic fier-crom. I. Obtinerea datelor cinetice.	P. Rotaru, I. Siminiceanu, L. Unguru, S. Blejoiu, I. Bucur.	*Revista de Chimie,* vol.31(2), 1980, pag.149-151	0.040	**0.040**
Total activitate A2.2				**6.595**

RECUNOASTERE SI IMPACTUL ACTIVITATII (A3)

Coordonate lucrare citata			**Coordonate lucrare care citeaza**			**Punctaj* C**
Titlu	**Autori**	**Revista, an, vol, pag.**	**Titlu**	**Autori**	**Revista, an, vol, pag.**	
1. Optical and Mossbauer study of the real time holographic organometallic material Fe:PVA	V. Kuncser, A. Avramescu, G. Filoti, P. Rotaru, R. Podgorsek, M.	*Journal of Alloys and Compounds,* vol.256, 1997, pag.269-275	1.1 *"Investigation of the light induced refractive index changes in Fe:PVA"*	Kuncser V, Filoti G, Avramescu A, Podgorsek R, Biebricher M, Franke H.	***Journal of Alloys and Compounds*****,** vol.257**(**1-2) pag.285-292, 1997	1.235

	Biebricher, H. Franke. (7 autori) $n^{ef} = 5.666$		1.2 *"The diffraction efficiency in Fe : PVA explained by Mossbauer spectroscopy"*	Kuncser V, Filoti G, Podgorsek R, Bibricher M, Franke. H.	***Journal of Physics D-Applied Physics, ,*** vol.31(18) pag.2315-2318, 1998	
			1.3 *"Optical and electronic properties of (Fe+Sb): PVA for real time holography"*	Kuncser V, Bulinski M, Krautwald S, Franke H, Wagner FE, Cristea D, Palade P, Plapcianu C, Filoti G.	***Journal of Optoelectronics and Advanced Materials,*** vol.8(3), pag.1225-1229, 2006	
			1.4 *"Experimental investigation of the nonlinear optical reponse in Fe:PVA"*	Bulinski M, Iova I, Belea A, Kuncser V, Filoti G.	***Journal of Materials Science Letters*** vol.19 pag.27-28, 2000	
			1.5 *"Effects of modifying PVA/AA photopolymer film with SeO_2 crystals on diffraction efficiencies for holographic recording"*	Kim D, Kim Y, Nam S, Lim J.	***Journal of Industrial Engineering Chemistry,*** vol.12(5), pag.762-768, 2006	
			1.6 "UV crosslinking of Fe3+-doped poly(vinyl alcohol) - Characterization of optical properties and swelling behavior"	Schauberger JG, Riess G, Kern W.	***Journal of Applied Polymer Science,*** vol. 129(6), pag. 3623-3628, 2013	
			1.7 "Preparation of UV reactive montmorillonite and characterization of its nanocomposites with poly(vinyl alcohol)"	Schauberger JG, Riess G, Kern W.	***Journal of Applied Polymer Science,*** vol. 130(1), pag. 665-672, 2013	
2. Mossbauer Spectroscopy Applied to Radioactive Waste Processing	G. Filoti, V. Kuncser, I. Prisecaru, P. Rotaru, C.N. Turcanu. (5 autori) $n^{ef} = 5$	*Hyperfine Interaction,* vol.112, nr.1-4, 1998, pag.201-204	2.1 *"Chemical composition of radioactive waste and the mechanical performance of cemented matrix"*	Ionascu L, Nicu M, Turcanu C, Dragolici F, Rotarescu G.	***Romanian Reports in Physics,*** vol.65(4), pag.1512-1518, 2013	0.200

4. The Anomalous particle flux induced by electromagnetic tubulence	N. Pometescu, M. Negrea, P. Rotaru. (3 autori) $n^{ef} = 3$	*Plasma Physics and Controlled Fusion,* vol.40, 1998, pag.1383-1398	4.1 *"Anomalous entropy production in a turbulent plasma"*	Pometescu N.	***Plasma Physics and Controlled Fusion,*** vol.41(12), pag.1453-1468, 1999	1.000
			4.2 *"Parallel and poloidal fluxes in turbulent non-ohmic plasmas: An ion-cyclotron resonance heating case"*	Pometescu N, Weyssow B.	***Physics of Plasmas,*** vol.10(4), pag.1048-1059, 2003	
			4.3 *"Radial and poloidal particle and energy fluxes in a turbulent non-Ohmic plasma: An ion-cyclotron resonance heating case B"*	Pometescu N, Weyssow B.	***Physics of Plasmas,*** vol.14(2), article 022305 pag.1-18, 2007	
5. Kinetics and mechanism of CO_2 methanation on a nickel catalyst	P. Rotaru, S.I. Blejoiu. (2 autori) $n^{ef} = 2$	*Journal of Indian Chemical Society*, vol.78, nr.7, 2001, pag.343-351	5.1 *"A membrane-based reactive separation system for CO2 removal in a life support system"*	Hwang HT, Harale A, Liu PKT, Sahimi M, Tsotsis TT.	***Journal of Membrane Science,*** vol.315(1-2), pag.116-124, 2008	2.000
			5.2 *"Methanation of carbon doixide on Ni/ZrO_2-Al_2O_3 catalysts: Effects of ZrO_2 promoter and preparation method of novel ZrO_2-Al_2O_3 carrier*	Cai M, Wen J, Chu W, Cheng X, Li Z.	***Journal of Natural Gas Chemistry*** vol.20, pag.318-324, 2011	
			5.3 *"Modeling and simulation of catalytic membrane reactor for application in life support systems and in situ resource utilization "*	Hwang HT, Harale A, Liu PKT, Sahimi M, Tsotsis TT.	*AIChE Annual Meeting, Conference Proceedings* 2008, 1p	
			5.4 *"The development of models for carbon dioxide reduction technologies for spacecraft air revitalization"*	Swickrath MJ, Anderson M.	*42nd International Conference on Environmental Systems 2012* ICES 2012	
6. Kinetics and	P. Rotaru, S.I.	*Journal of*	6.1 *"A mechanistic model*	Mann RF, Peppley B,	***International Journal of***	0.500

mechanism of reverse water-gas shift reaction on a *Cu-ZnO*-Al_2O_3 catalyst	Blejoiu. (2 autori) $n^{ef} = 2$	*Indian Chemical Society*, vol.78, nr.7, 2001, pag.352-359	*for the water gas shift reaction over commercial catalysts containing CuO/ZnO*	Amphlettt JC, Thurgood CP.	***Chemical Reactor Engineering*** vol.2, pag. 1-17, 2004	
10. Optical and electronic properties of polyvinyl alcohol doped with pairs of mixed valence metal ions	M. Bulinski, V. Kuncser, C. Plapcianu, S. Krautwald, H. Franke, P. Roatru, G. Filoti. (7 autori) $n^{ef} = 5.666$	*Journal of Physics D: Applied Physics,* vol. 37, 2004, pag 2437-2441	10.1 *"Incorporation of silver ions into ultrathin titanium phosphate films: In situ reduction to prepare silver nanoparticles and their antibacterial activity"*	Wang QF, Yu HJ, Zhong L, Liu J, Sun J, Shen J.	***Chemistry of Materials*****,** vol.18(7), pag.1988-1994, 2006	1.764
			10.2 *"Microstructural studies on BaCl2 doped poly(vinyl alcohol)"*	Bhajantri RF, Ravindrachary V, Harisha A, Crasta V, Nayak SP, Poojary B.	***Polymer,*** vol.47(10), pag.3591-3598, 2006	
			10.3 *"Transparent Conductive Films Based on Polymer Composites Containing the Mixed-Valence Tetrathiafulvalene Nanofibers",*	Tanaka K, Ishiguro F, Kunita T, Chujo Y.	***Journal of Polymer Science Part A Polymer Chemistry,*** vol.47(3), pag.6441-6450, 2009	
			10.4 *"Photoinduced Radical Generation and Self-Assembly of Tetrathio-fulvalene into the Mixed-Valence State in the Poly(vinyl chloride) Film under UV Irradiation",*	Tanaka K, Ishiguro F, Chujo Y.	***Langmuir,*** vol.26(2), pag.1152-1156, 2010	

			10.5 *"Facile Preparation of Concentration-Gradient Materials with Radical Spin of the Mixed-Valence Tetrathiafulvalene in Conventional Polymer Films"*	Tanaka K, Ishiguro F, Chujo Y.	***Langmuir,*** vol.26(12), pag.10254-10258, 2010	
			10.6 *"Characterization and evolution of electro-optical properties from holograms replication on polymer (PVA) with salts ($FeCl_3$)"*	Hernandez-Garay MP, Olivares-Perez A, Fuentes-Tapia I.	***AIP Conference Proceedings*** vol.860, pag.446-454, 2006	
			10.7 *"Optical characterization of silver doped poly (vinyl alcohol) films"*	Jabbar WA, Habubi NF, Chiad SS.	***Journal of the Arkansas Academy of Science*** vol.64, pag.101-105, 2010	
			10.8 *"Optical properties of NaI doped polyvinyl alcohol films"*	Mustafa FA.	***Physical Sciences Research International,*** vol. 1(1), pag. 1-9, 2013	
			10.9 *"Studies of the effect of nanoparticle dopants and blending of different polymers on Physical, Electrical, Optical and Micro structural properties of PVA - A Review"*	Rithin Kumar NB, Pai S, Crasta V, Shreeprakash B.	*Proceedings of the International Conference on "Advanced Nanomaterials and Emerging Engineering Technologies",* Article number 6609388, pag. 620-626, 2013	
			10.10 *"**Effect of Ni Nano particles on Thermal, Optical and Electrical Behaviour of Irradiated PVA/AAc Films**"*	Hegazy DE, Eid M, Madani M.	***Arab Journal of Nuclear Science and Applications,*** vol.47(1),pag. 41-52) 2014	

11. The influence of the tabletting pressure upon the textural and diffusional properties of a Fe2O3–Cr2O3 catalyst	P. Rotaru, S. I. Blejoiu, M. Stanciu, G. Stoenescu, M. Mateescu, V. Voiculescu. (6 autori) n^{ef} = 5.333	*Microporous and Mesoporous Materials*, vol. 83, 2005, pag. 159-164	11.1 *"Ion-pair complex precursor route for fabrication of high temperature shift Fe–Cr nanocatalyst"*	Salehirad A, Latifi SM, Miroliaee A.	*Materials Research Bulletin,* vol.59(), pag.104-110, 2014	0.187
13. Thermal decomposition kinetics of some aromatic azomonoethers. Part II. Non isothermal study of three liquid crystals in dynamic air atmosphere	A. Rotaru, A. Kropidlowska, A. Moanta, P. Rotaru, E. Segal. (5 autori) n^{ef} = 5	*Journal of Thermal Analysis and Calorimetry,* vol.92(1), 2008, pag. 233-238	13.1 ***"****Hierarchical kinetic simulation for autocatalytic decomposition of cumene hydroperoxide at low temperatures"*	Chen JR, Cheng SY, Yuan MH, Kossoy AA, Shu CM.	***Journal of Thermal Analysis and Calorimetry,*** vol.96(3)**,** pag.751-758, 2009	2.800
			13.2 *"Isoconversional linear integral kinetics of the non-isothermal evaporation of 4-[(4-chlorobenzyl)oxy]-4'-trifluoromethyl-azobenzene"*	Rotaru A, Goşa M, Segal E.	***Studia Universitatis Babeş-Bolyai, Chemia*** vol. LIV, 3, pag. 185-192, 2009	
			13.3 *"Evolved Gas Analysis by Infrared Spectroscopy"*	Materazzi S, Vecchio S.	***Applied Spectroscopy Reviews,*** vol.45(4), pag.241-273, 2010	
			13.4 *"Thermal and electron impact decomposition of 4-hydroxy-4'-cyano-azobenzene"*	Moanta A, Ionescu C, Tutunaru B, Dumitru M.	***Revista de Chimie (Bucharest)*** vol.61(7), pag.657-659, 2010	
			13.5 "*Thermal stabilities of some benzaldehyde2,4-dinitrophenylhydrazones"*	Cusu JP, Musuc AM, Oancea D.	***Journal of Thermal Analysis and Calorimetry*** vol.109(1)**,** pag. 123-129, 2012	

			13.6 *"Study on thermal decomposition and the non-isothermal decomposition kinetics of glyphosate"*	Chen FX, Zhou CR, Li GP.	***Journal of Thermal Analysis and Calorimetry,*** vol.109(3)**,** pag. 1457-1462, 2012	
			13.7 *"Azo-polysiloxanes thermal stability study: Thermal stability of azo-polysiloxanes with biological applications"*	Lisa G, Păiuş C, Raicu-Luca A, Hurduc N.	***High Performance Polzmers,*** vol.24(6)**,** pag. 530-537, 2012	
			13.8 *"Solid state characterizations and analysis of stability in azelnidipine polymorphs"*	Li D, Wang M, Yang C, Wang J, Ren G.	***Chemical Pharmaceutical Bulletin*** vol.60(8)**,** pag. 995-1002, 2012	
			13.9 *"Thermal decomposition and kinetics studies on the 2,2-dinitropropyl acrylate-styrene copolymer and 2,2-dinitropropyl acrylate-vinyl acetate copolymer"*	Zhang GZ, Zheng HC, Xiang X.	***Journal of Thermal Analysis and Calorimetry,*** vol.111(2)**,** pag. 1039-1044, 2013	
			13.10 *"Synthesis and characterization of an azo dye: 4-(phenyldiazenyl)phenyl 2-furoate. Electrochemical and XPS study of its adsorption and inhibitive properties on corrosion of carbon steel in saline water"*	Moanta A, Samide A, Ionescu C, Tutunaru B, Dobritescu A, Fruchier A, Montero VB.**,**	***International Journal of Electrochemical Science,*** vol. 8, pag. 780-796, 2013	
			13.11 *"Thermal decomposition kinetics of glycine in nitrogen atmosphere"*	Huang M, Lv S, Zhou C.	***Thermochimica Acta,*** vol. 552, pag. 60-64, 2013	

			13.12 *"Thermal behavior of silicophosphate gels obtained from different precursors"*	Todan L, Andronescu C, Vuluga DM, Culita DC, Zaharescu M.	***Journal of Thermal Analysis and Calorimetry,*** vol.143(1)**,** pag. 91-99, 2013	
			13.13 *"Investigation of thermal decomposition kinetics of taurine"*	Huang MX, Zhou CR, Han XW.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(2)**,** pag. 589-593, 2013	
			13.14 *"Thermal behaviour and antimicrobial assay of some new zinc(II) 2-aminobenzoate complex compounds with bioactive ligands"*	Krajnikova A, Rotaru A, Gyoryova K, Homzova K, Manolea HO, Kovarova J, Hudecova D.	***Journal of Thermal Analysis and Calorimetry,*** vol.120(1), pag.73–83, 2015	
14. Thermal analysis and thin films deposition by matrix assisted pulsed laser evaporation of a 4CN type azomonoether	A. Rotaru, C Constantinescu, P. Rotaru, A. Moanta, M. Dumitru, M. Socaciu, M. Dinescu, E. Segal. (8 autori) $n^{ef} = 6$	*Journal of Thermal Analysis and Calorimetry,* vol.92(1), 2008, pag. 279-284	14.1 *"Thin films of Cu(II)-o,o '-dihydroxy azobenzene nanoparticle-embedded polyacrylic acid (PAA) for nonlinear optical applications developed by matrix assisted pulsed laser evaporation (MAPLE)"*	Constantinescu C, Emandi A, Vasiliu C, Negrila C, Logofatu C, Cotarlan C, Lazarescu M.	***Applied Surface Science,*** vol.255(10), pag. 5480-5485, 2009	1.000
			14.2 *"Multifunctional thin films of lactoferrin for biochemical use deposited by MAPLE technique"*	Constantinescu C, Palla-Papavlu A, Rotaru A, Florian P, Chelu F, Icriverzi M, Nedelcea A, Dinca V, Roseanu A, Dinescu M.	***Applied Surface Science,*** vol.255(10), pag.5491-5495, 2009	
			14.3 *"Isoconversional linear integral kinetics of the non-isothermal evaporation of 4-[(4-chlorobenzyl)oxy]-4'-trifluoromethyl-azobenzene"*	Rotaru A, Goşa M, Segal E.	***Studia Universitatis Babeş-Bolyai, Chemia*** vol. LIV, 3, pag. 185-192, 2009	

			14.4 *"Loss prevention in the petrochemical and chemical-process high-tech industries in Taiwan"*	Chen CC, Wang TC, Chen LY, Dai JH, Shu CM.	***Journal of Loss Prevention in the Process Industries,*** vol.23(4), pag.531-538, 2010	
			14.5 *"Matrix-assisted pulsed laser methods for biofabrication"*	Riggs BC, Dias AD, Schiele NR, Cristescu R, Huang Y, Corr DT, Chrisey DB.	***MRS Bulletin,*** vol.36, pag. 1043-1050, 2011	
			14.6 *"Thermal behaviour and antimicrobial assay of some new zinc(II) 2-aminobenzoate complex compounds with bioactive ligands"*	Krajnikova A, Rotaru A, Gyoryova K, Homzova K, Manolea HO, Kovarova J, Hudecova D.	***Journal of Thermal Analysis and Calorimetry,*** vol.120(1), pag.73–83, 2015	
15. Thermal characterization of humic acids and other components of raw coal	A. Rotaru, I. Nicolaescu, P. Rotaru, C. Neaga. (4 autori) $n^{ef} = 4$	*Journal of Thermal Analysis and Calorimetry,* vol.92(1), 2008, pag. 297-300	15.1 *"Structural differences of Chernozem soil humic acids SEC-PAGE fractions revealed by thermal (TG-DTA) and spectroscopic (DRIFT) analyses"*	Francioso O, Montecchio D, Gioacchini P, Cavani L, Civatta C, Trubetskoj O, Trubetskaya O.	***Geoderma,*** vol.152(3-4), pag.264-268, 2009	1.750
			15.2 "*Land use effects on carbon quality and soil biological properties in Eutric Cambisol"*	Pospisilova L, Formanek P, Kucerik J, Liptaj T, Losak T, Martensson A.	***Acta Agriculturae Scandinavica Section B-Soil and Plant Science,*** vol.61(**7**)**,** pag.661-669, 2011	
			15.3 *"Determining the selective impregnation of waterlogged archaeological woods with poly(ethylene) glycols mixtures by differential scanning calorimetry"*	Cavallaro G, Donato DI, Lazzara G, Milioto S.	***Journal of Thermal Analysis and Calorimetry*** vol.111(2)**,** pag. 1449-1455, 2013	
			15.4 *"Comparison of thermal and chemical stability of Cu-humic complexes"*	Klucakova M, Novackova K.	***Journal of Soils and Sediments,*** **v**ol. 14(2), pag. 360-367, 2014	

			15.5 *"Selective functionalization of halloysite cavity by click reaction: Structured filler for enhancing mechanical properties of bionanocomposite films"*	Arcudi F, Cavallaro G, Lazzara G, Massaro M, Milioto S, Noto R, Riela S.	***Journal of Physical Chemistry C,*** vol. 118(27), pag. 15095-15101, 2014	
			15.6 *"Halloysite nanotubes as sustainable nanofiller for paper consolidation and protection"*	Cavallaro G, Lazzara G, Milioto S, Parisi F.	***Journal of Thermal Analysis and Calorimetry,*** vol.117(3), pag. 1293-1298, 2014	
			15.7 *"Natural organic matter in ecosystems – A review"*	Kosobucki P, Buszewski B.	*Nova Biotechnologica et Chimica,* vol. 13(2), pag. 109-129, 2014	
16. Computational thermal and kinetic analysis. Software for non-isothermal kinetics by standard procedure	A. Rotaru, M. Goşa, P. Rotaru. (3 autori) $n^{ef} = 3$	*Journal of Thermal Analysis and Calorimetry,* vol.94(2), 2008, pag. 367-371	16.1 *"Computational thermal and kinetic analysis"*	Rotaru A, Gosa M.	***Journal of Thermal Analysis and Calorimetry,*** vol.97(2), pag.421-426, 2009	2.333
			16.2 *"Isoconversional linear integral kinetics of the non-isothermal evaporation of 4-[(4-chlorobenzyl)oxy]-4'-trifluoromethyl-azobenzene"*	Rotaru A, Goşa M, Segal E.	***Studia Universitatis Babeş-Bolyai, Chemia*** vol. LIV, 3, pag. 185-192, 2009	
			16.3 *"Synthesis, characterization, thermal and antimicrobial studies of diabetic drug models: Complexes of vanadyl(II) sulfate with ascorbic acid (vitamin C), riboflavin (vitamin B2) and nicotinamide (vitamin B3)"*	Refat MS.,	***Journal of Molecular Structure,*** vol.969(1-3), pag.163-171, 2010	

			16.4 *"Spectroscopic, thermal and kinetic studies of coordination compounds of Zn(II), Cd(II) and Hg(II) with norfloxacin"*	Refat MS, Mohamed GG, de Farias RF, Powel AK, El-Garib MS, El-Korashy SA, Hussien MA.	***Journal of Thermal Analysis and Calorimetry,*** vol.102(1), pag.225-232, 2010	
			16.5 *"Synthesis, spectroscopic characterization, thermal, and photostability studies of 2-(20-hydroxy-50-phenyl)-5-aminobenzotriazole complexes"*	Refat MS.	***Journal of Thermal Analysis and Calorimetry,*** vol.102(3), pag.1095–1103, 2010	
			16.6 *"DSC study on hyaluronan drying and hydration"*	Kucerik J, Prusova A, Rotaru A, Flimel K, Janecek J, Conte P.	***Thermochimica Acta,*** vol.523(1-2), pag.245-249, 2011	
			16.7 *"Thermal analysis and kinetic study of Petroşani bituminous coal from Romania in comparison with a sample of Ural bituminous coal"*	Rotaru A.	***Journal of Thermal Analysis and Calorimetry,*** vol.110(3), pag.1283–1291, 2010	
17. Thermal decomposition kinetics of some aromatic azomonoethers. Part III. Non-isothermal study of 4-[(4-chlorobenzyl)oxy]-4'-chloroazobenzene in dynamic air atmosphere	A. Rotaru, A. Moanta, P. Rotaru, E. Segal. (4 autori) $n^{ef} = 4$	*Journal of Thermal Analysis and Calorimetry,* vol.95(1), 2009, pag. 161-166	17.1 *"Computational thermal and kinetic analysis"*	Rotaru A, Gosa M.	***Journal of Thermal Analysis and Calorimetry,*** vol.97(2), pag.421-426, 2009	3.000
			17.2 *"Isoconversional linear integral kinetics of the non-isothermal evaporation of 4-[(4-chlorobenzyl)oxy]-4'-trifluoromethyl-azobenzene"*	Rotaru A, Goşa M, Segal E.	***Studia Universitatis Babeş-Bolyai, Chemia*** vol. LIV, 3, pag. 185-192, 2009	
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			17.4 *"Thermal and electron impact decomposition of 4-hydroxy-4'-cyano-azobenzene"*	Moanta A, Ionescu C, Tutunaru B, Dumitru M.	***Revista de Chimie (Bucharest)*** vol.61(7), pag.657-659, 2010	
			17.5 *"Kinetics of nonisothermal degradation of some polymer composites: change of entropyat the formation of the activated complex from the reagents"*	Turmanova S, Genieva S, Vlaev L.	***Journal of Thermodynamics*** vol.2011, Article ID 605712, 10 pages, 2011	
			17.6 *"DSC study of the kinetic parameters of the metastable phases formation during non-isothermal annealing of an Al–Si–Mg alloy"*	Daoudi MI, Triki A, Redjaimia A.	***Journal of Thermal Analysis and Calorimetry,*** vol.104(2), pag.627-633, 2011	
			17.7 *"Study on polymerization kinetics of methylene diphenyl diisocyanate"*	Zhang Q, Li H, Liu H.	***Acta Chimica Sinica,*** 69(6), pag.605-609, 2011	
			17.8 *"Study on thermal decomposition and the non-isothermal decomposition kinetics of glyphosate"*	Chen FX, Zhou CR, Li GP.	***Journal of Thermal Analysis and Calorimetry,*** vol.109(3)**,** pag. 1457-1462, 2012	
			17.9 *"Stability and physical structure tests of piperidyl and morpholinyl derivatives of diphenyl-diketo-pyrrolopyrroles (DPP)"*	Kucerik J, Weiter DM, Vala M, Vynuchal J, Ouzzane I, Salyk O.	***Journal of Thermal Analysis and Calorimetry,*** vol.108(2)**,** pag. 467-473, 2012	

			17.10 *"Solid state characterizations and analysis of stability in azelnidipine polymorphs"*	Li D, Wang M, Yang C, Wang J, Ren G.	***Chemical and Pharmaceutical Bulletin,*** *vol.* 60(8), **pag,** 995-1002, 2012	
			17.11 *"Non-isothermal decomposition kinetics of methyl N-phenyl carbamate for preparation of phenyl isocyanate"*	Zhu G, Li H, Wu H, Cao Y, Liu H, Li X, Zhang Q, Tang Q.	***The Chinese Journal of Process Engineering,*** vol. 12(4), pag. 608-612, 2012	
			17.12 *"Synthesis and characterization of an azo dye: 4-(phenyldiazenyl)phenyl 2-furoate. Electrochemical and XPS study of its adsorption and inhibitive properties on corrosion of carbon steel in saline water"*	Moanta A, Samide A, Ionescu C, Tutunaru B, Dobritescu A, Fruchier A, Montero VB.**,**	***International Journal of Electrochemical Science,*** vol. 8, pag. 780-796, 2013	
18. CdS thin films obtained by thermal treatment of cadmium(II) complex precursor deposited by MAPLE technique	A. Rotaru, A. Mietlarek-Kropidłowska, C. Constantinescu, N. Scărisoreanu, M. Dumitru, M. Strankowski, P. Rotaru, V. Ion, C. Vasiliu, B. Becker, M. Dinescu. (11 autori) $n^{ef} = 7$	*Applied Surface Science* vol. 255(15), 2009, pag. 6786–6789	18.1 *"MAPLE deposition of Mn(III) metalloporphyrin thin films: Structural, topographical and electrochemical investigations"*	Cristescu R, Popescu C, Popescu AC, Grigorescu S, Mihăilescu IN, Ciucu AA, Iordache S, Andronie A, Stamatin I, Fagadar-Cosma E, Chrisey DB.	***Applied Surface Science,*** vol.257(12), pag.5293-5297, 2011	2.000
			18.2 *"Deposition of antibacterial of poly(1,3-bis-(p-carboxyphenoxy propane)-co-(sebacic anhydride)) 20:80/gentamicin sulfate composite coatings by MAPLE"*	Cristescu R, Popescu C, Socol G, Visan A, Mihăilescu IN, Gittard SD,Miller PR, Martin TN, Narayan RJ, Andronie A, Stamatin I, Chrisey DB.	***Applied Surface Science,*** vol.257(12), pag.5287-5292, 2011	

			18.3 *"New investigations applied on cadmium sulfide thin films for photovoltaic applications"*	Toma O, Iftimie S, Besleaga C, Mitran TL, Ghenescu V, Porumb O, Toderas A, Radu M, Ion L, Antohe S.	***Chalcogenide Letters,*** vol.8(12), pag. 747-756, 2011	
			18.4 *"Sythesis and characterization of Zn(II) binuclear complexes with three Schiff bases derived from some amino acids and 2.2'-(propane-1,3-diyldioxy)dibenzaldehyde"*	Ciolan F, Patron L, Marinescu G, Cioateră N, Mureşeanu M.	***Revista de Chimie (Bucharest)*** vol.62(12), pag.1145-1149, 2011	
			18.5 *"Resonant infrared matrix-assisted pulsed laser evaporation of TiO_2 nanoparticle films"*	Mayo DC, Paul O, Airuoyo IJ, Pan Z, Schriver KE, Avanesyan SM, Park HK, Mu RR, Haglund Jr RF.	***Applied Physics A,*** vol. 110, pag. 923–928, 2013	
			18.6 *"Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand"*	Pătraşcu F, Badea M, Grecu MN, Stanică N, Măruțescu L, Marinescu D, Spînu C, Tigae C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(3), pag.1421–1429, 2013	
			18.7 *"Theoretical survey on cadmium sulfide thin films for solar cell applications"*	Arunraja L, Thirumoorthy P, Dhatchinamurthy L.	***Asian Journal of Chemistry,*** vol. 5(3), pag. 84-89, 2013	

			18.8 *"Formation of the Ionic Gold(III) Complex [Au3{S2CN(CH2)4O}6][Au2Cl8][AuCl4] in Chemisorption Systems [M{S2CN(CH2)4O}2]n–[AuCl4]–/2 M HCl (M = Cd, Zn):Supramolecular Structure and Thermal Behavior"*	Rodina TA, Loseva OV, Ivanov AV, Gerasimenko AV, Sergienko VI, Zaeva AS, Korneeva EV.	*Russian Journal of Coordination Chemistry,* vol. 39(10), pag. 694–703, 2013	
			18.9 "Zn(II) and Cd(II) coordination polymers with tri-tert-butoxysilanethiol and bipyridines. Synthesis, crystal structure and spectroscopy"	Pladzyk A, Ponikiewski Ł, Stanulewicz N, Hnatejko Z.	*Optical Materials,* vol. 36, pag. 554–561, 2013	
			18.10 *"Adduct Formation of Cadmium(II) N,N_cyclo_ Hexamethylenedithiocarbamate, [Cd2{S2CN(CH2)6}4], with Morpholine: Synthesis, Molecular Structure, and Thermal Behavior of a Crystalline Adduct cis_[Cd{NH(CH2)4O}2{S2CN(CH2)6}2]"*	Zaeva AS, Ivanov AV, Gerasimenko AV.	*Russian Journal of Coordination Chemistry,* vol. 40(1), pag.34–42, 2014	

			18.11 *"Cadmium complex possessing simultaneously silanethiolatoand dithiocarbamato-ligands. A novel single-source precursor of cadmium sulfide"*	Mietlarek-Kropidłowska A, Chojnacki J, Strankowski M, Fahmi A, Gazda M, Becker B.	*Journal of Thermal Analysis and Calorimetry,* vol.118(2), pag.993–1001, 2013	
			18.12 "*Small Inorganic Rings in the 21st Century: From Fleeting Intermediates to Novel Isolable Entities*"	He G, Shynkaruk, O, Lui MW, Rivard E.	*Chemical Reviews,* vol.114(16), pag. 7815-7880, 2014	
			18.13 *"Theorewtical survey on cadmium sulfide thin films for solar cell application"*	Arunraja L, Thirumoorthy P, Dhatchinamurthy L.	*International Journal of Applied Science,* vol.5(1), pag. 13-16, 2013	
			18.14 *"Thermal behaviour and antimicrobial assay of some new zinc(II) 2-aminobenzoate complex compounds with bioactive ligands"*	Krajnikova A, Rotaru A, Gyoryova K, Homzova K, Manolea HO, Kovarova J, Hudecova D.	***Journal of Thermal Analysis and Calorimetry,*** vol.120(1), pag.73–83, 2015	
19. Thermal analysis of azoic dyes: Part I. Non-isothermal decomposition kinetics of [4-(4-chlorobenzyloxy)-3-methylphenyl](*p*-tolyl)diazene in dynamic air atmosphere	A. Rotaru, G. Bratulescu, P. Rotaru. (3 autori) $n^{ef} = 3$	*Thermochimica Acta,* vol. 489(1-2), 2009, pag. 63–69	19.1 *"Isoconversional linear integral kinetics of the non-isothermal evaporation of 4-[(4-chlorobenzyl)oxy]-4'-trifluoromethyl-azobenzene"*	Rotaru A, Goşa M, Segal E.	***Studia Universitatis Babeş-Bolyai, Chemia*** vol. LIV, 3, pag. 185-192, 2009	2.000
			19.2 *"Thermodegradative and morphological behavior of composites of HDPE with surface-treated hidroxyapatite"*	Albano C, Catano L, Perera R, Karam A, Gonzalez G.	***Polymer Bulletin,*** vol.64(1), pag.67-79, 2010	

			19.3 *"Thermal analysis and kinetic study of Petroşani bituminous coal from Romania in comparison with a sample of Ural bituminous coal"*	Rotaru A.	***Journal of Thermal Analysis and Calorimetry,*** vol.110(3), pag.1283–1291, 2012	
			19.4 *"Polyethylene glycol/clay nanotubes composites. Thermal properties and structure"*	Cavallaro G, De Lisi R, Lazzara G, Milioto S.	***Journal of Thermal Analysis and Calorimetry,*** vol.112(1), pag.383–389, 2013	
			19.5 *"Thermal behaviour and antimicrobial assay of some new zinc(II) 2-aminobenzoate complex compounds with bioactive ligands"*	Krajnikova A, Rotaru A, Gyoryova K, Homzova K, Manolea HO, Kovarova J, Hudecova D.	***Journal of Thermal Analysis and Calorimetry,*** vol.120(1), pag.73–83, 2015	
			19.6 *"The kinetics and mechanism of nanoconfined molten salt reactions: Trimerization of potassium and rubidium dicyanamide"*	Yancey B, Vyazovkin S.	*Physical Chemistry Chemical Physics,* vol.17(15), pag.10209-102017, 2015	
20. Thermal characteristics of Ni–Ti SMA (shape memory alloy) actuators	S. Degeratu, P. Rotaru, Gh. Manolea, H. O. Manolea, A. Rotaru. (5 autori) $n^{ef} = 5$	*Journal of Thermal Analysis and Calorimetry,* vol.97(2), 2009, pag. 695-700	20.1 *"A complete thermo-mechanical study of a NiTiCu shape memory wire"*	Nespoli A, Besseghini S.	***Journal of Thermal Analysis and Calorimetry,*** 103**(**3), pag.821-826, 2011	1.400
			20.2 *"Design Analysis in frictional fan clutch driven by SMA spring"*	Ma J, Liu P.	***Applied Mechanics and Materials,*** vol.101-102, pag.7-10, 2012	
			20.3 *"Thermo-mechanical properties of snake-like NiTi wires and their use in miniature devices"*	Nespoli A, Villa E, Besseghini S.	***Journal of Thermal Analysis and Calorimetry,*** 109(1**),** pag.39-47, 2012	

			20.4 *"Cylindrical magnetorheological fluid stepless transmission controlled by shape memory alloy"*	Ma J, Wei S, Zhong L.	***China Mechanical Engineering*** (5)**,** pag.599-603, 2013	
			20.5 *"Metastable effects on martensitic transformation in SMA. Part IX. Static aging for morphing by temperature and stress"*	Torra V, Auguet C, Isalgue A, Carreras G, Lovey FC.	***Journal of Thermal Analysis and Calorimetry,*** 112(2)**,** pag.777-780, 2013	
			20.6 "*Analysis and Testing of MR Shear Transmission Driven by SMA Spring"*	Huang J, Chen X, Zhong L.	*Advances in Materials Science and Engineering,* Article ID 307207, pag. 1-6, 2013	
			20.7 *"The surface oxidation behavior of Ni-45.16%Ti shape memory alloys at different temperatures"*	Dagdelen F, Ercan E.	***Journal of Thermal Analysis and Calorimetry,*** 115(1)**,** pag.561-565, 2014	
21. Thermal decomposition kinetics of some aromatic azomonoethers. Part IV. Non-isothermal kinetics of 2-allyl-4-((4-(4-methylbenzyloxy)phenyl) diazenyl)phenol in air flow	A. Rotaru, A. Moanță, G. Popa, P. Rotaru, E. Segal. (5 autori) $n^{ef} = 5$	*Journal of Thermal Analysis and Calorimetry,* vol.97(2), 2009, pag. 485-491	21.1 *"Computational thermal and kinetic analysis"*	Rotaru A, Gosa M.	***Journal of Thermal Analysis and Calorimetry,*** vol.97(2), pag.421-426, 2009	2.000
			21.2 *"Stability and physical structure tests of piperidyl and morpholinyl derivatives of diphenyl-diketo-pyrrolopyrroles (DPP)"*	Kucerik J, Weiter DM, Vala M, Vynuchal J, Ouzzane I, Salyk O.	***Journal of Thermal Analysis and Calorimetry,*** vol.108(2)**,** pag. 467-473, 2012	
			21.3 "*Thermal stabilities of some benzaldehyde2,4-dinitrophenylhydrazones"*	Cusu JP, Musuc AM, Oancea D.	***Journal of Thermal Analysis and Calorimetry*** vol.109(1)**,** pag. 123-129, 2012	

			21.4 *"Study on thermal decomposition and the non-isothermal decomposition kinetics of glyphosate"*	Chen FX, Zhou CR, Li GP.	***Journal of Thermal Analysis and Calorimetry,*** vol.109(3)**,** pag. 1457-1462, 2012	
			21.5 *"Thermal analysis and kinetic study of Petroşani bituminous coal from Romania in comparison with a sample of Ural bituminous coal"*	Rotaru A.	***Journal of Thermal Analysis and Calorimetry,*** vol.110(3), pag.1283–1291, 2012	
			21.6 *"Kinetics of exothermal decomposition of some ketone-2,4-dinitrophenylhydrazones"*	Pandele Cusu J, Musuc AM, Matache M, Oancea D.	***Journal of Thermal Analysis and Calorimetry,*** vol.110(3), pag.1259–1266, 2012	
			21.7 *"Synthesis and characterization of an azo dye: 4-(phenyldiazenyl)phenyl 2-furoate. Electrochemical and XPS study of its adsorption and inhibitive properties on corrosion of carbon steel in saline water"*	Moanta A, Samide A, Ionescu C, Tutunaru B, Dobritescu A, Fruchier A, Montero VB.**,**	***International Journal of Electrochemical Science*** vol. 8, pag. 780-796, 2013	
			21.8 *"Synthesis and characterization of an azo dye: 4-(phenyldiazenyl)phenyl 2-furoate. Electrochemical and XPS study of its adsorption and inhibitive properties on corrosion of carbon steel in saline water"*	Moanta A, Samide A, Ionescu C, Tutunaru B, Dobritescu A, Fruchier A, Barragan Montero V.	***International Journal of Electrochemical Science*** vol. 8, pag. 780-796, 2013	

			21.9 *"Thermal decomposition kinetics of glycine in nitrogen atmosphere"*	Huang M, Lv S, Zhou C.	***Thermochimica Acta,*** vol.522, pag.60-64, 2013	
			21.10 *"Investigation of thermal decomposition kinetics of taurine"*	Huang MX, Zhou CR, Han XW.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(2)**,** pag. 589-593, 2013	
22. Matrix assisted pulsed laser evaporation of zinc benzoate for ZnO thin films and non-isothermal decomposition kinetics	A. Rotaru, C. Constantinescu, A. Mândruleanu, P.Rotaru, A. Moldovan, K. Győryová, M. Dinescu, V. Balek. (8 autori) $n^{ef} = 6$	*Thermochimica Acta,* vol. 498(1-2), 2010, pag. 81–91	22.1 *"Sythesis and characterization of Zn(II) binuclear complexes with three Schiff bases derived from some amino acids and 2.2'-(propane-1,3-diyldioxy)dibenzaldehyde"*	Ciolan F, Patron L, Marinescu G, Cioateră N, Mureşeanu M.	***Revista de Chimie (Bucharest)*** vol.62(12), pag.1145-1149, 2011	2.000
			22.2 *"Thermal analysis and kinetic study of Petroşani bituminous coal from Romania in comparison with a sample of Ural bituminous coal"*	Rotaru A.	***Journal of Thermal Analysis and Calorimetry,*** vol.110(3), pag.1283–1291, 2012	
			22.3 *"Photoelectrocatalytic activity of spray deposited ZnO thin films against E. coli Davis"*	Sapkal RT, Shinde SS, Sapkal DM, Babar AR, Shinde VV, Jalkute CB, Moholkar AV, Rajpure KY, Sonawane KD, Patil PS, Bhosale CH.	***Materials Research Innovations,*** vol.16(6), pag.417–424, 2012	
			22.4 *"Crystal structure, spectral, thermal and dielectric studies of a new zinc benzoate single crystal"*	Bijini BR, PrasannaS, Deepa M, Nair CMK,Rajendra Babu K.	***Spectrochimica Acta Part A : Molecular and Biomolecular Spectroscopy,*** vol.97, pag.1002-1006, 2012	

			22.5 *"Synthesis and characterization of Co(II), Ni(II), Zn(II) and Cd(II) complexes with 5-bromo-N,N'-bis-(salicylidene)-o-tolidine"*	Alan I, Kriza A, Badea M, Stănică N, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.111(1), pag.483–490, 2013	
			22.6 *"Thermal, spectral, electrochemical and biologic characterization of new Pd(II) complexes with ligands bearing biguanide moieties"*	Badea M, Iosub E, Chifiriuc CM, Măruțescu L,Iorgulescu EE,Lazăr V, Marinescu D,Vleotu C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.111(3), pag.1753-1761, 2013	
			22.7 *"Photoelectrocatalytic activity of spray deposited ZnO thin films against E. coli Davis"*	Sapkal RT, Shinde SS, Sapkal DM, Babar, AR, Shinde VV, Jalkute CB, Moholkar AV, Rajpure KY, Sonawane KD, Patil PS, Bhosale CH.	***Energy Materials: Materials Science and Engineering for Energy Systems,*** vol. 7(4), pag. 417-424, 2012	
			22.8 *"Thermo-analytical determination of intermediates in the copper catalysed rearrangement of o-toluic acid to meta-cresol"*	Sunil AC, Langner EHG, Marais C, Bezuidenhoudt BCB.	***Catalysis Science and Technology,*** vol. 3(9), pag. 2227-2233, 2013	
			22.9 *"Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand"*	Pătraşcu F, Badea M, Grecu MN, Stanică N, Măruțescu L, Marinescu D, Spînu C, Tigae C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(3), pag.1421–1429, 2013	

			22.10 *"Thermal behaviour and characterisation of new biologically active Cu(II) complexes with benzimidazole as main ligand"*	Badea M, Vlaicu ID, Olar R, Constand M, Bleotu C, Chifiriuc MC, Marutescu L, Lazar V, Grecu MN, Marinescu D.	***Journal of Thermal Analysis and Calorimetry,*** vol.118(2), pag.1119–1133, 2013	
			22.11 *"Thermo-analytical determination of intermediates in the copper catalysed rearrangement of o-toluic acid to meta-cresol"*	Sunil AC, Langer EH, Marais C, Beizuidenhoudt BCB.	***Catalysis Science and Technology,*** vol.3, pag.2227-2233, 2013	
			22.12 *"Thermal behaviour and antimicrobial assay of some new zinc(II) 2-aminobenzoate complex compounds with bioactive ligands"*	Krajnikova A, Rotaru A, Gyoryova K, Homzova K, Manolea HO, Kovarova J, Hudecova D.	***Journal of Thermal Analysis and Calorimetry,*** vol.120(1), pag.73–83, 2015	
23. Thermal behaviour and spectroscopic investigation of some methyl 2-pyridyl ketone complexes	M. Tătucu, P. Rotaru, I. Rău, C. Spînu, A. Kriza. (5 autori) $n^{ef} = 5$	*Journal of Thermal Analysis and Calorimetry,* vol.100(3), 2010, pag. 1107-1114	23.1 *"Sythesis and characterization of Zn(II) binuclear complexes with three Schiff bases derived from some amino acids and 2.2'-(propane-1,3-diyldioxy)dibenzaldehyde"*	Ciolan F, Patron L, Marinescu G, Cioateră N, Mureşeanu M.	***Revista de Chimie (Bucharest)*** vol.62(12), pag.1145-1149, 2011	2.800
			23.2 *"Sythesis, characterization and antimicrobial activity of some Cu(II) complexes with N,N'-bis-(pyridine-2-yl-methylene)-3,3'-dimethylbenzidine Schiff base"*	Alan I, Kriza A, Drăcea O, Stănică N.	***International Journal of Pharmacy and Technology,*** vol.4(2), pag.4436-4450, 2012	

			23.3 *"Synthesis and crystal structure of a new one-dimensional cadmium(II)-azide system with phenyl-2-pyridyl ketone"*	Kriza A, Tatucu M.,	***Journal of Coordination Chemistry,*** vol.64(2), pag.195-201, 2011	
			23.4 *"Allosteric regulation of a reactive squaraine rotaxane endoperoxide"*	Baumes JM, Murgu I, Connell RD, Culligan WJ, Oliver AG, Smith BD.	***Supramolecular Chemistry,*** vol.24(1), pag.14-22, 2012	
			23.5 *"Properties of 2-, 3-, and 4-acetylpyridine substituted ruthenium(II) bis(bipyridine) complexes: substituent effect on the electronic structure, spectra, and photochemistry of the complex"*	Al Abdel Hamid Amer AG, Kanan S.	***Journal of Coordination Chemistry,*** vol.65(3), pag.420-430, 2012	
			23.6 *"Synthesis and characterization of Co(II), Ni(II), Zn(II) and Cd(II) complexes with 5-bromo-N,N'-bis-(salicylidene)-o-tolidine"*	Alan I, Kriza A, Badea M, Stănică N, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.111, pag.483–490, 2013	
			23.7 *"Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand"*	Pătraşcu F, Badea M, Grecu MN, Stanică N, Măruţescu L, Marinescu D, Spînu C, Tigae C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(3), pag.1421–1429, 2013	

			23.8 *"New complexes of Co(II), Ni(II) and Cu(II) with the Schiff base 2,2'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diylbis-(nitrilomethylidyne)]bis[6-methoxyphenol]"*	Alan I, Kriza A, Dracea O, Stănică N.	***Journal of the Serbian Chemical Society,*** vol.78(7), pag.947–957, 2013	
			23.9 "Synthesis, Specrtoscopic, Electrochemical and Antibacterial Activities of Mono- and Homobi-nuclear of Ru(II) Complexes with a Triazolate Bridging Ligand"	El-Gahami MA, Albishri HM.	*Oriental Journal of Chemistry,* Vol.29(3), pag.911-919, 2013	
			23.10 *"Studies on thermal, spectral, magnetic and biological properties of new Ni(II), Cu(II) and Zn(II) complexes with a bismacrocyclic ligand bearing an aromatic linker"*	Bucur C, Badea M, , Chifiriuc MC, Bleotu C, Iorgulescu EE, Badea IA, Grecu MN, Lazăr V, Patriciu OI, Marinescu D, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.115(3), pag.2179–2189, 2014	
			23.11 "Thermal behaviour of some novel antimicrobials based on complexes with a Schiff base bearing 1,2,4-triazole pharmacophore"	Badea M, Calu L, Chifiriuc MC, Bleotu C, Marin A, Ion S, Ioniță G, Stanică N, Măruțescu L, Laza V, Marinescu D, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.xxx(x), pag.xxx–xxx, 201x DOI 10.1007/s10973-014-3821-4	

			23.12 "*Insight on thermal, spectral, magnetic and biological behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a pentaazamacrocyclic ligand derived from nicotinamide"*	Olar R, Patrascu F, Chifiriuc MC, Iorgulescu EE, Bleotu C, Măruțescu L, Lazar V, Marinescu D, Stanica N, Badea M.	***Journal of Thermal Analysis and Calorimetry,*** vol.118(2), pag.1159–1168, 2014 DOI 10.1007/s10973-014-3864-6	
			23.13 *"Thermal, spectral, magnetic and biologic characterization of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand bearing ketopyridine moieties"*	Badea M, Patrascu F, Cerc Korosec R, Bukovec P, Raita M, Chifiriuc MC, Marutescu L, Bleotu C, Velescu B, Marinescu D, Uivarosi V, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.118(2), pag.1183–1193, 2014 DOI 10.1007/s10973-014-3857-5	
			23.14 *"Synthesis, spectral, thermal, magnetic and biological characterization of Co(II), Ni(II), Cu(II) and Zn(II) complexes with a Schiff base bearing a 1,2,4-triazole pharmacophore"*	Calu L, Badea M, Chifiriuc MC, Bleotu C, David GI, Ionita G, Marutescu L, Lazar V, Stanica N, Soponaru I, Marinescu D, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.120(1), pag.375–386, 2015	
24. Thermal analysis of a calcium fructoborate sample	P. Rotaru, R. Scorei, A. Hărăbor, M.D. Dumitru. (4 autori) $n^{ef} = 4$	*Thermochimica Acta,* 506 (2010) 8–13	24.1*"Assessment of the potential of a boron-fructose additive in counteracting the toxic effect of Fusarium mycotoxins"*	Țăranu I, Marin D, Manda G, Moțiu M, Neagoe I, Tabuc, C, Stancu M, Olteanu M.	***British Journal of Nutrition,*** vol.106(3), pag.398-407, 2011	3.000

			24.2 *"A duble-blind, placebo-controlled pilot study to evaluate the effect of calcium fructoborate on systemic inflammation and dyslipidemia markers for middle-aged people with with primary osteoarthritis"*	Scorei R, Mitruț P, Petrişor I, Scorei I.	***Biological Trace Element Research,*** vol.144(1), pag. 253-263, 2011.	
			24.3 *"Sythesis and characterization of Zn(II) binuclear complexes with three Schiff bases derived from some amino acids and 2.2'-(propane-1,3-diyldioxy)dibenzaldehyde"*	Ciolan F, Patron L, Marinescu G, Cioateră N, Mureşeanu M.	***Revista de Chimie (Bucharest)*** vol.62(12), pag.1145-1149, 2011	
			24.4*"Short-term intake of calcium fructoborate improves WOMAC and McGill Scores and beneficially modulates biomarkers associated with knee osteoarthritis:A pilot clinical double-blinded placebo-controlled study "*	Reyes-Izquierdo T, Nemzer B, Gonzalez AE, Zhou Q, Argumedo R, Shu C, Pitrzkowski Z.	***American Journal of Biomedical Sciences*** vol.4(2), pag.111-122, 2012	
			24.5*"Boron in human nutrition and its regulations use"*	Dincă L, Scorei R.	***Journal of Nutritional Therapeutics*** vol. 2, pag.22-29, 2013	

			24.6*"Oral resveratrol and calcium fructoborate supplementation in subjects with stable angina pectoris: Effects on lipid profiles , inflammation markers, and quality of life"*	Militaru C, Donoiu I, Crăciun A, Scorei ID, Bulercă AM, Scorei RI.	***Nutrition,*** vol.29, pag.178-183, 2013	
			24.7 *"Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand"*	Pătraşcu F, Badea M, Grecu MN, Stanică N, Măruțescu L, Marinescu D, Spînu C, Tigae C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(3), pag.1421–1429, 2013	
			24.8 *"Calcium Fructoborate Helps Control Inflammation Associated with Diminished Bone Health"*	Scorei ID, Scorei RI.	***Biological Trace Element Research,*** vol.155(x), pag. 315-321, 2013	
			24.9 *"Short-term efficacy of calcium fructoborate on subjects with knee discomfort: a comparative, double-blind, placebo-controlled clinical study"*	Pietrzkowski Z, Phelan MJ, Keller R, Shu C, Argumedo R, Reyes-Izquierdo T.	*Clinical Interventions in Aging,* vol.9, pag. 895–899, 2014	
			24.10 *"Calcium fructoborate: plant-based dietary boron as potential medicine for cancer therapy"*	Scorei IR.	*Frontiers in Bioscience* vol.S3, pag. 205-215, 2011	

			24.11 *"Multinuclear NMR of Calcium Fructoborate Complex – Structure, Stability, and Quantitation in the Presence of Other Ingredients, Excipients or Adulterant"*	Edwards JC, Hunter JM, Nemzer BV.	Journal of Food Research, vol. 3(3), pag.115-131, 2014	
			24.12 *"Thermal behaviour and antimicrobial assay of some new zinc(II) 2-aminobenzoate complex compounds with bioactive ligands"*	Krajnikova A, Rotaru A, Gyoryova K, Homzova K, Manolea HO, Kovarova J, Hudecova D.	***Journal of Thermal Analysis and Calorimetry,*** vol.120(1), pag.73–83, 2015	
25. Structural characterization, thermal investigation and liquid crystalline behavior of 4-[(4-chlorobenzyl)oxy]-3,4'-dichloroazobenzene	A. Moanta, C. Ionescu, P. Rotaru, M. Socaciu, A. Hărăbor. (5 autori) $n^{ef} = 5$	*Journal of Thermal Analysis and Calorimetry,* vol.102(3), 2010, pag. 1079-1086	25.1 *"Liquid crystalline properties of new unsymmetrical compounds with benzothiazole core detected by TG/DSC-POM-XRD"*	Iwan A, Gorecki L, Pociecha D.	***Journal of Thermal Analysis and Calorimetry,*** vol.111(1), pag.43–49, 2012	0.600
			25.2 *"Synthesis and characterization of an azo dye: 4-(phenyldiazenyl)phenyl 2-furoate. Electrochemical and XPS study of its adsorption and inhibitive properties on corrosion of carbon steel in saline water"*	Moanta A, Samide A, Ionescu C, Tutunaru B, Dobritescu A, Fruchier A, Barragan Montero V.	***International Journal of Electrochemical Science*** vol. 8, pag. 780-796, 2013	

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26. Wear behaviour of ceramic biocomposites based on hydroxiapatite nanopowders	O. Gingu, G. Benga, A. Olei, N. Lupu, P. Rotaru, S. Tanasescu, M. Mangra, I. Ciupitu, I. Pascu, G. Sima. (10 autori) n^{ef} = 6.666	*Journal of Process Mechanical Engineering* vol.225(1), 2011, pag. 62-71	*26.1 "**A numerical dynamic behaviour model for 3D contact problems with friction**"*	Pop N, Vladareanu L, Popescu IN, Ghita C, Gal A, Cang S, Yu HN, Bratu, V, Deng MC.	*Computational Materials Science,* vol.94(SI), pag.285-291, 2014	0.150
27. Thermal and microstructural analysis of Cu(II) 2,2'-dihydroxy azobenzene and thin films deposition by MAPLE technique	C. Constantinescu, E. Morîntale, A. Emandi, M. Dinescu, P. Rotaru. (5 autori) n^{ef} = 5	*Journal of Thermal Analysis and Calorimetry,* vol.104(2), 2011, pag. 707-716	27.1 .*"The Matrix-Assisted Pulsed Laser Evaporation (MAPLE) process: origins and future directions"*	Piqué A.	***Applied Physics A: Materials Sciences & Processing,*** vol.105(3), pag.517-528, 2011	1.000
			27.2 *"Solvatochromic properties of azo pyrazolone ligands in coordinative compounds with erbium"*	Emandi A, Vasiliu IC, Marinescu M.	***Nanoscience and Nanotechnology,*** vol.5(4), pag.487-492, 2013	
			27.3 *"Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand"*	Pătraşcu F, Badea M, Grecu MN, Stanică N, Măruțescu L, Marinescu D, Spînu C, Tigae C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(3), pag.1421–1429, 2013 ***Applied Surface Science,*** vol.302(1), pag.69-73, 2014	

			27.4 *"Azo-derivatives thin films grown by matrix-assisted pulsed laser evaporation for non-linear optical applications "*	Constantinescu C, Matei A, Ionita I, Ion V, Marascu V, Dinescu M, Vasiliu C, Emandi A.		
			27.5 "*Laser printing of azo-derivative thin films for non-linear opticalapplications*"	Matei A, Constantinescu C, Mitu B, Filipescu M, Ion V, Ionita I, Brajnicov S, Alloncle AP, Delaporte P, Emandi A, Dinescu M.	*Applied Surface Science,* vol.336, pag.200-205, 2015	
28. Calcium Fructoborate—Potential Anti-inflammatory Agent	R.I. Scorei, P. Rotaru. (2 autori) $n^{ef} = 2$	*Biological Trace Element Research,* vol.143(3), 2011, pag. 1223-1238	28.1 *"A duble-blind, placebo-controlled pilot study to evaluate the effect of calcium fructoborate on systemic inflammation and dyslipidemia markers for middle-aged people with with primary osteoarthritis"*	Scorei R, Mitruț P, Petrişor I, Scorei I.	***Biological Trace Element Research,*** vol.144(1), pag. 253-263, 2011	7.500
			28.2 *"Plant Borates and Potential Uses to Promote Post-training Recovery and to Mitigate Overtraining Syndrome"*	Pietrzkowski Z, Hunter J, Evers B, Pond H.	*Nutrition and Enhanced Sports Performance, p*ag.479-485 DOI: http://dx.doi.org/10.1016/B978-0-12-396454-0.00050-3	
			28.3 *"Boron in human nutrition and its regulations use"*	Dincă L, Scorei R.	***Journal of Nutritional Therapeutics*** vol. 2, pag.22-29, 2013	

			28.4 *"Oral resveratrol and calcium fructoborate supplementation in subjects with stable angina pectoris: Effects on lipid profiles , inflammation markers, and quality of life"*	Militaru C, Donoiu I, Crăciun A, Scorei ID, Bulercă AM, Scorei RI.	***Nutrition,*** vol.29, pag.178-183, 2013	
			28.5 *"Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand"*	Pătraşcu F, Badea M, Grecu MN, Stanică N, Măruţescu L, Marinescu D, Spînu C, Tigae C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(3), pag.1421–1429, 2013	
			28.6 *"Sugar-Borate Esters – Potential Chemical Agents in Prostate Cancer Chemoprevention"*	Scorei RI, Popa R.	***Anti-Cancer Agents in Medicinal Chemistry,*** vol.13, pag.1-9, 2013	
			28.7 "Calcium Fructoborate Helps Control Inflammation Associated with Diminished Bone Health"	Scorei ID, Scorei RI.	***Biological Trace Element Research,*** vol.155(3), pag. 315-321, 2013	
			28.8 *"Nutraceuticals: Potential for Chondroprotection and Molecular Targeting of Osteoarthritis"*	Leong DJ, Choudhury M, Hirsh DM, Hardin JA, Cobelli NJ, Sun HB.	*International Journal of Molecular Sciences,* vol.14, pag. 23063-23085, 2013	

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			28.10 *"Short-term efficacy of calcium fructoborate on subjects with knee discomfort: a comparative, double-blind, placebo-controlled clinical study"*	Pietrzkowski Z, Phelan MJ, Keller R, Shu C, Argumedo R, Reyes-Izquierdo T.	*Clinical Interventions in Aging,* vol.9, pag. 895–899, 2014	
			28.11 "Update on human health effects of boron"	Nielsen F.	*Journal of Trace Elements in Medicine and Biology,* vol.28(4), pag.383-387, 2014	
			28.12 *"In vitro assessment of genotoxic and oxidative effects of zinc borate"*	Çelikezen FC, Türkez H, Toğar B.	*Toxicological and Environmental Chemistry,* vol.96(5), pag.777-782, 2014	
			28.13 *"Dietary boron does not affect tooth strength, micro-hardness, and density, but affects tooth mineral composition and alveolar bone mineral density in rabbits fed a high-energy diet"*	Hakki SS, Malkoc S, Dundar N, Kayis SA, Hakki EE, Hamurcu M, Baspinar N, Basoglu A, Nielsen FH, Götz W.	*Journal of Trace Elements in Medicine and Biology,* vol.29(1), pag.208-215, 2015	
			28.14 *"Effects of a dietary supplement on golf drive distance and functional indices of golf performance"*	Ziegenfuss TN, Habowski SM, Lemieux R, Sandrock JE, Kedia1 AW, Kerksick CM, Lopez HL.	*Journal of the International Society of Sports Nutrition* vol.12, 4, pag.1-14, 2015	

			28.15 *"Preclinical and Clinical Evidence for the Role of Resveratrol in the Treatment of Cardiovascular Diseases"*	Zordoky BNM, Robertson IM, Dyck JRB.	*Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease* doi: 10.1016/j.bbadis.2014.10.016	
29. Thermal, morphological and optical investigations of $Cu(DAB)_2$ thin films produced by matrix assisted pulsed laser evaporation and laser-induced forward transfer for sensor development	C. Constantinescu, E. Morîntale, V. Ion, A. Moldovan, C. Luculescu, M. Dinescu, P. Rotaru. (7 autori) $n^{ef} = 5.666$	*Thin Solid Films,* vol. 520(11), 2012 pag 3904-3909	29.1 *"Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand"*	Pătraşcu F, Badea M, Grecu MN, Stanică N, Măruțescu L, Marinescu D, Spînu C, Tigae C, Olar R.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(3), pag.1421–1429, 2013	1.764
			29.2 *"Laser-induced forward transfer of polythiophene-based derivatives for fully polymeric thin film transistors"*	Rapp L, Constantinescu C, Delaporte P, Alloncle AP.	*Organic Electronics: physics, materials, applications,* vol.15(8), pag.1868–1865, 2014	
			29.3 *"Ferrocene, an old molecule with a bright future: Thin films grown by matrix-assisted pulsed laser evaporation for nonlinear optical Applications"*	Matei A, Constantinescu C, Ion V, Mitu B, Ionita I, Dinescu M, Vasiliu M, Emandi A.	*Journal of Organometallic Chemistry*, vol.751, pag.638-643, 2014	
			29.4 *"Azo-derivatives thin films grown by matrix-assisted pulsed laser evaporation for non-linear optical applications "*	Constantinescu C, Matei A, Ionita I, Ion V, Marascu V, Dinescu M, Vasiliu C, Emandi A.	***Applied Surface Science,*** vol.302(1), pag.69-73, 2014	
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			29.8 *"Laser-induced forward transfer of multi-layered structures for OTFTapplications"*	Constantinescu C, Diallo AK, Rapp L, Cremillieu P, Mazurczyk R, Serein-Spirau F, Lère-Porte JP, Delaporte P, Alloncle AP, Videlot-Ackermann C.	*Applied Surface Science,* vol.336, pag.11-15, 2015	
			29.9 *"Thermal behavior and matrix-assisted pulsed laser evaporation deposition of functional polymeric materials thin films with potential use in optoelectronics"*	Constantinescu C, Rotaru A, Nedelcea A, Dinescu M.	*Materials Science in Semiconductor Processing* vol.30, pag.242-249, 2015	
			29.10 "*Laser printing of azo-derivative thin films for non-linear optical applications*"	Matei A, Constantinescu C, Mitu B, Filipescu M, Ion V, Ionita I, Brajnicov S, Alloncle AP, Delaporte P, Emandi A, Dinescu M.	*Applied Surface Science,* vol.336, pag.200-205, 2015	

30. Experimental approach of co-firing and anaerobic fermentation of biomass and coal, and their thermochemical properties	A.E. Cioablă, G. Trif Tordai, P. Rotaru, M. Socaciu, I. Ionel (5 autori) $n^{ef} = 5$	*Journal of Thermal Analysis and Calorimetry,* vol.110(1), 2012, pag. 395-403	30.1 *"Thermogravimetric analysis of gasification reactivity of coal chars with steam and CO_2 at moderate temperatures"*	Fan D, Zhu Z, Na Y, Lu Q.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(2), pag.599–607, 2013	0.800
			30.2 *"Studies on potential utilization of rice husk char in blend with lignite for cocombustion application"*	Sarkar P, Sahu SG, Chakraborty N, Adak AK.	***Journal of Thermal Analysis and Calorimetry,*** vol.115(2), pag.1573–1581, 2014	
			30.3 *"Characterisation and comparison of biomass ashes with different thermal histories using TG-DSC"*	Febrero L, Granada E, Perez C, Patino D, Arce E.	***Journal of Thermal Analysis and Calorimetry,*** vol.118(2), pag.669-680, 2014	
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31. Thermal and spectral behavior of (Y,Eu)VO_4 powder	A. Hărăbor, P. Rotaru, N.A. Hărăbor (3 autori) $n^{ef} = 3$	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1211-1219	31.1 *"Photoluminescence of europium-doped and europium/ strontium-codoped sol–gel-prepared yttrium vanadate nanoparticles"*	Luo A, Du G, Lai H, Shi W.	*Materials Science in Semiconductor Processing,* vol.23, pag.20-26, 2014	0.666
			31.2 ***"Synthesis and luminescence of $Ca_9Eu_{1-x}Ln_x(VO_4)_7$ (Ln = Y, La, Gd, Lu) phosphors"***	Mi X, Du K, Huang K, Zhou P, Geng D, Zhang Y, Shang M, Lin J.	*Materials Research Bulletin,* vol.60, pag.72–78, 2014	

32. Thermal study of a shape memory alloy (SMA) spring actuator designed to insure the motion of a barrier structure	S. Degeratu, P. Rotaru, S. Rizescu, N.G. Bîzdoacă. (4 autori) $n^{ef} = 4$	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1255-1262	32.1 *"Effect of composition on the thermal behavior of NiMnGa alloys"*	Kok M, Aydogdu Y.	***Journal of Thermal Analysis and Calorimetry,*** vol.113(2), pag.859–863, 2013	1.750
			32.2 *"Relationship between transformation temperatures and alloying elements in Cu–Al–Ni shape memory alloys"*	Karagoz Z, Aksu Canbay C.	***Journal of Thermal Analysis and Calorimetry,*** vol.114(3), pag.1069-1074, 2013	
			32.3 *"State of the art of shape memory materials and their applications"*	Mor M.	*Applied Mechanics and Materials,* vol.389, pag.255–259, 2013	
			32.4 *"Temperature-modulated differential scanning calorimetry for the study of reversing and nonreversing heat flow of shape memory alloys"*	Nespoli A, Passaretti F, Stortiero F, Villa E.	***Journal of Thermal Analysis and Calorimetry,*** vol.116(2), pag.771–777, 2014	
			32.5 "Controlling of transformation temperatures of Cu-Al-Mn shape memory alloys by chemical composition"	Aksu Canbay C, Karagozb Z, Yakuphanoglua F.	*Acta Physica Polonica A,* vol.125(5), pag.1163-1166, 2014	
			32.6 *"Preparation and thermal properties of heterogeneous composite phase change materials based on camphene–palmitic acid"*	Karagoz Genc Z, Aksu Canbay C, Seyma Acar S, Sekerci M, Genc M.	*Journal of Thermal Analysis and Calorimetry,* DOI:10.1007/s10973-015-4478-3	
			32.7 *"Thermal and structural characterization of Cu–Al–Mn–X (Ti, Ni) shape memory alloys"*	C. Aksu Canbay C, Karagoz Genc Z, Sekerci M.	*Applied Physics A,* vol. 115, pag.371–377	

33. Spectral and thermal studies of 4-(phenyldiazenyl)phenyl 2-furoate as corrosion inhibitor for carbon steel	A. Moanță, B. Tutunaru, P. Rotaru. (3 autori) $n^{ef} = 3$	*Journal of Thermal Analysis and Calorimetry,* vol.111(2), 2013, pag. 1273-1279	33.1 *"Synthesis and characterization of an azo dye: 4-(phenyldiazenyl)phenyl 2-furoate. Electrochemical and XPS study of its adsorption and inhibitive properties on corrosion of carbon steel in saline water"*	Moanta A, Samide A, Ionescu C, Tutunaru B, Dobritescu A, Fruchier A, Barragan Montero V.	***International Journal of Electrochemical Science*** vol. 8, pag. 780-796, 2013	0.666
			33.2 *"The Adsorption Behavior of Thiazole on the Surface of Carbon Steel in Heterogeneous Solution"*	Ai JZ.	*Advanced Materials Research*, vol. 1010 – 1012, pag. 1740-1744	
34. Bulk titanium for structural and biomedical applications obtaining by spark plasma sintering (SPS) from titanium hydride powder	C.I. Pascu, O. Gingu, P. Rotaru, I. Vida-Simiti, A. Hărăbor, N. Lupu. (6 autori) $n^{ef} = 5.33$	*Journal of Thermal Analysis and Calorimetry,* vol.113(2), 2013, pag. 849-857	34.1 *"Investigating the thermal properties of polyethylene plasma modified by using unconventional chemical vapors"*	Patra N, Hladik J, Martinová L.	*Journal of Thermal Analysis and Calorimetry,* vol.117(1), 2014, pag. 229-234	0.187
36. Thermal and spectral behaviour of a light-cured methacrylate-based composite material used in dentistry	H.O. Manolea, P. Rotaru, G. Manolea, E. Morîntale, R. Rîcă (5 autori) $n^{ef} = 5$	*Journal of Thermal Analysis and Calorimetry,* vol.114(3), 2013, pag. 1325-1331	36.1 "Synthesis, characterization, and thermal properties of new flavor compounds"	Worzakowska M.	*Journal of Thermal Analysis and Calorimetry,* vol.116(2), 2014, pag. 727-736	0.200
44. Pulsed laser processing of poly(3,3'''-didodecyl quarter thiophene) semiconductor for organic thin film	C. Constantinescu, L. Rapp, P. Rotaru, P. Delaporte, A.P. Alloncle	*Chemical Physics,* vol.450-451, 2015, pag. 32–38	44.1 *"Octahydroacridine thin films grown by matrix-assisted pulsed laser evaporation for non linear optical applications"*		*Materials Science in Semiconductor Processing,* vol. 36, 2015, pag.78-83	0.200

transistors	(5 autori) $n^{ef} = 5$					
49. Influenta regimului de calcinare asupra proprietatilor catalizatorului de Fe-Cr pentru conversia oxidului de carbon cu vapori de apa	S.I. Blejoiu , P. Rotaru, A. Szabo, I. Brasoveanu, L. Nistor, V. Teodorescu, L. Unguru, I. V. Nicolescu. (8 autori) $n^{ef} = 6$	*Revista de Chimie,* vol.29, nr.7, 1978, pag.635-641	49.1 *"Fractal analysis of mixed oxides type Cu-Cr catalysts supported on γ-Al_2O_3 and γ-Al_2O_3+SiO_2"*	Dobrescu G, Fangli I, Papa F, Georgescu V.	***Revista de Chimie (Bucharest),*** vol. 60(8), pag. 830-835	0.166
51. A study of some properties of Fe-Cr high temperature shift conversion catalyst	O. Popa, P. Rotaru, S.I. Blejoiu, L. Pandele, O. Bunescu, I. Brasoveanu, D.I. Marchidan. (7 autori) $n^{ef} = 5.66$	*Revue Roumaine de Chimie,* vol.24, nr.1, 1979, pag.153-158	51.1 *"Surface phase analysis of catalysts and other disperse materials using electroconductivity : the TVE-curves method"*	Dulov AA, Abramova LA, Baranov SP.	***Russian Chemical Bulletin,*** vol.45(2), pag.257-283, 1996	0.176
54. Structural strains appearing in the high temperature shift conversion Fe-Cr catalyst.	I. Brasoveanu, S.I. Blejoiu, A. Szabo, P. Rotaru, I.V. Nicolescu. (5 autori)	*Revue Roumaine de Chimie,* vol.25, nr.8, 1980, pag.1159-1169	54.1 ***"****Effect of abnormal treatment on the mechanical strength of iron-based high-temperature shift catalyst"*	Li YD, Wang RJ, Yu J, Zhang J, Chang L.,	***Applied Catalysis A-General,*** vol.133(2), pag.293-304, 1995	0.800

	$n^{ef} = 5$		54.2 ***"****The possibility of increasing the mechanical strength of Fe-based commercial WGS catalysts - Factors analysis in the calcination process"*	Li YD, Wang RJ, Zhang JY, Chang L.	***Catalysis Today,*** vol.30(1-3), pag.49-57, 1996	
			54.3 ***"****Optimizing the mechanical strength of Fe-based commercial high-temperature water-gas shift catalyst in a reduction process"*	Li YD, Chang L.	***Industrial & engineering chemistry research,*** vol.35**(**11**),** pag.4050-4057, 1996	
			54.4 *"Understandings on the scattering property of the mechanical strength data of solid catalysts - A statistical analysis of iron-based high-temperature water-gas shift catalysts"*	Li YD, Li XM, Chang L, Wu D, Fang Z, Shi Y.	***Catalysis Today,*** vol.51(1)**,** pag.73-84, 1999	
57. Electrical conduction in nickel - alumina catalyst	O. Bunescu, P. Rotaru, S. I. Blejoiu. (3 autori) $n^{ef} = 3$	*Revue Roumaine de Chimie,* vol.26, nr.11-12, 1981, pag.1393-1399	57.1 ***"****The high-temperature electrical-conductivity of a model catalyst containing conducting and insulating oxides"*	Ovenston A, Walls JR.	***Journal of Physics D-Applied Physics,*** vol.18(9), pag.1859-1870, 1985	0.333
58. The influence of sodium concentration upon the ZnO crystallite size in the Cu-Zn-Al oxidic catalysts for shift conversion	S. I. Blejoiu, T. Cioroianu, V. Vădeanu, P. Rotaru, O. Bunescu. (5 autori) $n^{ef} = 5$	*Revue Roumaine de Chimie,* vol.38, nr.6, 1993, pag.633-641	58.1 *"Partial oxidation of methanol to produce hydrogen over Cu-Zn-based catalysts"*	Alejo L, Lago R, Pena MA, Fierro JLG,	***Applied Catalysis A-General,*** vol.162(1-2)**,** pag.281-297, 1997	0.600
			58.2 *"Gas transport by porous media in the presence of a pressure gradient"*	Stanciu M, Arnăutu M.	***Revista de Chimie (Bucharest),*** vol. 55(10), pag. 815-817	

			58.3 *"Continuous precipitation of $Cu/ZnO/Al_2O_3$ catalysts for methanol synthesis in microstructured reactors with alternative precipitating agents"*	Simson G, Prasetyo E, Reiner S, Hinrichsen O.	***Applied Catalysis A-General,*** vol. 450, p**ag.** 1-12, 2013	
62. Synthesis and characterization of Cu(II), Ni(II) and Co(II) binuclear complexes with a new Schiff base (1,3-bis[ortho-(2-carboxy-phenyliminomethyl)-phenoxy]propane)	F. Ciolan, L. Patron, M. Mureşeanu, P. Rotaru, I. Georgescu. (5 autori) $n^{ef} = 5$	*Rev. Chim. (Bucuresti)* vol.63, nr.1, 2012, pag.34-39	62.1 *"Hystidine-salicylaldehyde Schiff base Cu(II) complexes immobilized on mesoporous materials as potentially biomimetic oxidation catalyst"*	Georgescu I, Mureseanu M, Carja G, Balasanian, I.	***Revista de Chimie (Bucharest),*** vol. 63(9), pag. 962-966, 2012	0.600
			62.2 *"Synthesis and Solid-State Characterization of Zn(II) Metal Complex with Acetaminophen"*	Ledeti I, Simu G, Vlase G, Savoiu G, Vlase T, Suta LM, Popoiu C, Fulias A.	***Revista de Chimie (Bucharest),*** vol. 64(10), pag. 1127-1130, 2013	
			62.3 *"Schiff base derived from phenylenediamine and salicylaldehyde as precursor techniques in coordination chemistry"*	El-Ajaily MM, Abou-Krisha MM, Etorki, AM, Alassbaly FS, Maihub AA.	*Journal of Chemical and Pharmaceutical Research*, vol. 5(12), pag.933-938,2013	
N1. Model-Free Kinetics applied to the thermal decomposition of some azoic dyes. Part 1. Friedmann Method – Linear Differential Isoconversional Method	P. Rotaru. (1 autor) $n^{ef} = 1$	*Physics AUC,* vol.17(part II), 2007, pag. 94-98	N1.1 *"Computational thermal and kinetic analysis"*	Rotaru A, Gosa M.	***Journal of Thermal Analysis and Calorimetry,*** vol.97(2), pag.421-426, 2009	1.000
N2. Model-Free Kinetics applied to the thermal decomposition of some azoic dyes. Part 2. Li-Tang Method – Linear Integral Isoconversional	P. Rotaru. (1 autor) $n^{ef} = 1$	*Physics AUC,* vol.17(part II), 2007, pag. 99-102	N2.1 *"Computational thermal and kinetic analysis"*	Rotaru A, Gosa M.	***Journal of Thermal Analysis and Calorimetry,*** vol.97(2), pag.421-426, 2009	1.000

Method						
N3. On the inappropriate fit of diffusion functions at thermal decomposition of some azomonoethers in liquid state	A. Rotaru, A. Kropidlowska, P. Rotaru. (3 autori) $n^{ef} = 3$	*Physics AUC,* vol.17(part II), 2007, pag. 115-118	N3.1 *"Computational thermal and kinetic analysis"*	Rotaru A, Gosa M.	***Journal of Thermal Analysis and Calorimetry,*** vol.97(2), pag.421-426, 2009	0.333
N4. Thermal behaviour and spectral analysis of the organometallic complex Cu(II)2,2'-dihydroxy azobenzene	E. Morîntale, D. Neacşa, C. Constantinescu, M. Dinescu, P. Rotaru. (5 autori) $n^{ef} = 5$	*Physics AUC,* vol.20(1), 2010, pag. 37-42	N4.1*"Azo-derivatives thin films grown by matrix-assisted pulsed laser evaporation for non-linear optical applications"*	Constantinescu C, Matei A, Ionita I, Ion V, Marascu V, Dinescu M, Vasiliu C, Emandi A.	***Applied Surface Science,*** vol.302(1), pag.69-73, 2014	0.200
N5. Two phases in a commercial anhydrous sodium carbonate by air contact	A. Harabor, P. Rotaru, N.A. Harabor(3 autori) $n^{ef} = 3$	*Physics AUC,* vol.23(1), 2013, pag. 79-88	N5.1*"Effect of heat treatment on the cellulose-calcium silicate nanocomposites synthesis from waste wood, clam shell, and glass "*	Kim ST, Park HJ, Yoon MY, Lee JS, Lim YS, Hwang HJ. http://www.maneyonline.com/doi/ref/10.1179/1743676114Y.0000000166 - cor1#cor1	*Advances in Applied Ceramics,* vol.113(6), pag.346-351, 2014	0.333
N6. On the probable reaction mechanism of reverse water-gas shift reaction on a Cu-ZnO-Al2O3 catalyst	P. Rotaru, S.I.Blejoiu, O. Bunescu, F. Uliu, N. Pometescu, R. Constantinescu, V. Voiculescu, I. Bucur. (8 autori) $n^{ef} = 6$	*Progress in Catalysis,* vol. 7(2), 1998, pag. 79-90	N6.1 "A mechanistic model for the water gas shift reaction over commercial catalysts containing CuO/ZnO"	Mann RF, Amphlett JC, Peppley B, Thurgood CP.	***International Journal of Chemical ReactorEngineering,*** vol.2, A5, pag. 1-17, 2004	0.166
N7. Evaluation of the Characteristics of a Shape Memory Alloy Spring Actuator	S. Degeratu, P. Rotaru, D. Tont, N. G. Bizdoaca, G.	*Journal of Computer Science and Control*	N7.1 *"Experimental and Theoretical Behavior of Self-healing Bolted Joints"*	Charbel Antonios, Daniel J. Inman, Ahmad Smaili	Journal of Intelligent Material Systems and Structures 2006; 17(6):499-509.	0.375

	Manolea, G. Tont. (6 autori) n^{ef} = 5.333	*Systems*, vol.1, 2009, pag. 88-92	N7.2 *"A Gripper Actuated by a Pair of Differential SMA Springs"*	Shaoze Yan, Xiajie Liu, Feng Xu, Jinhui Wang	Journal of Intelligent Material Systems and Structures 2007; 18(5):459-466.	
Total activitate A3						**54.534**

Tabel centralizator

Nr crt	Domeniul de activitate	Punctaj minimal abilitare	Punctaj realizat
1	**Activitatea didactică / profesională (A1)**	2	3.8000
2	**Activitatea de cercetare (A2)**	2+2=4	2.0802+4.3966=6.4768
3	**Recunoaştere şi impactul activităţii (A3)**	2	3.1162
Total		**8**	**13.393**