

List of contributions

Plenary and Invited lectures: 17.

<i>Nr.</i>	<i>Title, authors, location, date.</i>
1	From relaxor dielectrics to multiferroics constructing phase diagrams of tetragonal tungsten bronzes with formula $A_6MNb_9O_{30}$ (A=Ba,Sr,Ca; M=Ga,Sc,In); Andrei Rotaru ; Invited lecture at “7 th Symposium on Thermodynamics and Phase Diagrams”; Bor, Serbia, 8 June 2015.
2	A- and B-site substitutions effect on the dynamic relaxation processes in tetragonal tungsten bronzes; Andrei Rotaru , Finlay D. Morrison; Invited lecture at “Advanced Ceramics and Application – III Conference”; Belgrade, Serbia, 1 October 2014.
3	Fundamentals of modelling the kinetic and dynamic relaxation processes in ceramics, glasses, polymers and pharmaceuticals, monitored by thermal analysis, calorimetry and immittance spectroscopy techniques; Andrei Rotaru ; Invited lecture at “Summer School on Thermal Analysis and Calorimetry of AICAT 2014”; Cagliari, Italy, 12-13 September 2014.
4	The effect of thermal processing and temperature program of the dielectric analysis on the fundamental parameters of relaxation processes in ceramics; Andrei Rotaru ; Plenary lecture at “XXXVI Italian Congress on Thermal Analysis, Calorimetry and Applied Thermodynamics (AICAT 2014)”; Cagliari, Italy, 8-11 September 2014.
5	Rheology of polymeric materials. Thermal analysis: DSC, TGA, Peel Test and Pull Test for measuring the adhesion and detachment. Acoustic microscopy at the interface of thin films. Andrei Rotaru ; Invited lectures as Visiting Professor for the Master classes at University of Catania; Catania, Italy, 9-12 June 2014.
6	Sintering and measuring conditions effects on the dielectric properties of relaxor TTB ceramic materials; Andrei Rotaru ; Invited lecture at “Advanced Ceramics and Application – II Conference”; Belgrade, Serbia, 1 October 2013.
7	Advanced incremental linear kinetic methods to the study of thermally-induced processes in complex materials; Andrei Rotaru ; Plenary lecture at “14 th Conference on Thermal Analysis and Calorimetry in Russia”; Saint Petersburg, Russia, 27 September 2013.
8	Thermal stability and dynamics of dipoles in lead-free relaxor dielectric ceramics with tetragonal tungsten bronze structure; Andrei Rotaru ; Invited lecture at University of Palermo; Palermo, Italy, 10 October 2012.
9	Combustion kinetics of biomass and of other complex natural-composites. The standard procedure and how to choose the appropriate methods; Andrei Rotaru ; Invited lectures at University of Palermo; Palermo, Italy, 9 October 2012.
10	Advanced linear kinetic methods for the in-depth characterization of heterogeneous processes in solid fuels: the methodology and algorithm for investigating coals and biomass; Andrei Rotaru ; Invited lecture at “XXXIV Italian Congress on Thermal Analysis, Calorimetry and Applied Thermodynamics (AICAT 2012)”; Roma, Italy, 7 June 2012.
11	Fe-based/methyl methacrylate polymeric nanocomposite prepared by laser pyrolysis: structural and thermal properties; <u>Rodica Alexandrescu</u> , Andrei Rotaru , Ion Morjan, Claudiu Fleaca, Florian Dumitrache, Monica Scarisoreanu; Invited lecture at “1 st Annual World Congress of Advanced Materials (WCAM-2012)”; Beijing, China, 6-8 June 2012.
12	Investigating kinetic processes in composite materials by employing adjustable advanced linear methods; The case of fossil fuels and biomass. Andrei Rotaru ; Invited lecture at University of Gent, Laboratory for Chemical Technology; Gent, Belgium, 9 March 2012.
13	Matrix assisted pulsed laser evaporation of soft functional metal-organic materials, precursors and liquid crystals. Thermal and kinetic studies for enhancing processing conditions and properties of thin films; Andrei Rotaru ; Invited lecture at Vilnius University, Institute of Biotechnology, Vilnius, Lithuania, 9 March 2011.
14	Modelling the dielectric relaxation characteristics in a family of tungsten bronzes. Origin and stability of dipolar response; Andrei Rotaru ; Invited lecture at Tallinn University of Technology, Faculty of Chemical and Materials Technology, Tallinn, Estonia, 1 March 2011.
15	Modelling the kinetics of heterogeneous processes – The procedure of choosing and correct use of the various available methods; Andrei Rotaru ; Invited lecture at University P.J. Safarik in Kosice, Institute of Chemistry, Kosice, Slovakia, 23 June 2010.

16	Kinetics of heterogeneous processes. The mystery behind methods and calculations; Andrei Rotaru ; Invited lecture at Brno University of Technology, Faculty of Chemistry, Brno, Czech Rep., 18 December 2009.
17	Utility of kinetic study for different thermal decompositions of azoic dyes; Andrei Rotaru ; Invited lecture at Gdansk University of Technology, Chemical Faculty, Gdansk, Poland, 17 May 2007.

Published scientific articles: 33 (27 ISI), Citations: 334 (294 ISI & 41 in other IDB), H-index: 12.

Nr.	Title, Authors, Journal, Volume, Pages, Year.	Impact factor (year)
		ISI Citations
1	Effect of local A-site strain on dipole stability in $A_6\text{GaNb}_9\text{O}_{30}$ (A = Ba, Sr, Ca) tetragonal tungsten bronze relaxor dielectrics. Andrew J. Miller, Andrei Rotaru , Donna C. Arnold, Finlay D. Morrison; <i>Dalton Transactions</i> , 44, 10738-10745, 2015	4.197 (2014)
		0
2	Vogel-Fulcher analysis of relaxor dielectrics with the tetragonal tungsten bronze structure $\text{Ba}_6\text{MNb}_9\text{O}_{30}$ (M = Ga, Sc, In); Andrei Rotaru , Finlay D. Morrison; <i>Journal of Thermal Analysis and Calorimetry</i> , 120, 2, 1249-1259, 2015	2.042 (2014)
		0
3	Thermal behaviour and thin film deposition by MAPLE technique of functional polymeric materials with potential use in optoelectronics; Catalin Constantinescu, Andrei Rotaru , Anca Nedelcea, Maria Dinescu; <i>Materials Science in Semiconductor Processing</i> , 30, 242-249, 2015	1.955 (2014)
		4
4	Thermal behavior and antimicrobial assay of some new zinc(II) 2-aminobenzoate complex compounds with bioactive ligands; Annamaria Krajnikova, Andrei Rotaru* , Katarina Gyoryova, Horia Octavian Manolea, Katarina Homzova, Jana Kovarova, Daniela Hudecova; <i>Journal of Thermal Analysis and Calorimetry</i> , 120, 1, 73-78, 2015	2.042 (2014)
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5	Towards novel multiferroic & magnetoelectric materials: dipole stability in tetragonal tungsten bronzes. Andrei Rotaru , Andrew J. Miller, Donna C. Arnold, Finlay D. Morrison; <i>Philosophical Transactions of the Royal Society A</i> , 372, 20120451, 2014	2.147 (2014)
		1
6	New Trends in Thermal Analysis and Calorimetry in Central and Eastern Europe; Andrei Rotaru , Daumantas Matulis; <i>Journal of Thermal Analysis and Calorimetry</i> , 118, 2, 585-589, 2014	2.042 (2014)
		0
7	Enhancing the environmental impact of solid (un)conventional fuels' combustion by conducting a viable kinetic analysis; Andrei Rotaru* ; <i>Advances in Engineering & Management ADEM 2012</i> , 155-158, 2012	- (2012)
		0
8	Thermal analysis and kinetic study of Petroșani bituminous coal from Romania in comparison with a sample of Ural bituminous coal; Andrei Rotaru* ; <i>Journal of Thermal Analysis and Calorimetry</i> , 110, 3, 1283-1291, 2012	1.982 (2012)
		11
9	Special Issue Advanced Thermal Science in Central-Eastern Europe; Andrei Rotaru , Crisan Popescu; <i>Journal of Thermal Analysis and Calorimetry</i> , 110, 1, 1-3, 2012	1.982 (2012)
		0
10	Origin and stability of dipolar response in a family of tetragonal tungsten bronze relaxors; Andrei Rotaru , Donna C. Arnold, Aziz Daoud-Aladine, Finlay D. Morrison; <i>Physical Review B</i> , 83, 18, 184302, 2011	3.691 (2011)
		12
11	DSC study on hyaluronan hydration and dehydration; Jiri Kucerik, Alena Prusova, Andrei Rotaru , Karol Flimel, Jiri Janacek, Pelegrino Conte; <i>Thermochimica Acta</i> , 523, 1-2, 245-249, 2011	1.805 (2011)
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12	Thermokinetic study of bituminous coal and lignites from southern Romania; Andrei Rotaru* , Jiri Kucerik, Crisan Popescu, Marius Dumitru, Constantin Neaga; <i>Proceedings of the 43rd October Conference on Mining and Metallurgy, 2011</i>	- (2011)
		0
13	Matrix assisted pulsed laser evaporation of zinc benzoate for ZnO thin films and non-isothermal decomposition kinetics; Andrei Rotaru* , Catalin Constantinescu, Anca Mândruleanu, Petre Rotaru, Antoniu Moldovan, Katarina Györyová, Maria Dinescu, Vladimir Balek; <i>Thermochimica Acta</i> , 498, 1-2, 81-91, 2010	1.908 (2010)
		17
14	Computational thermal and kinetic analysis. Complete standard procedure to evaluate the kinetic triplet form non-isothermal data; Andrei Rotaru* , Mihai Goşa; <i>Journal of Thermal Analysis and Calorimetry</i> , 97, 2, 421-426, 2009	1.587 (2009)
		22
15	CdS thin films obtained by thermal treatment of cadmium (II) complex precursor deposited by MAPLE technique; Andrei Rotaru , Anna Mietlerek-Kropidłowska, Catalin Constantinescu, Nicu Scărişoreanu, Marius Dumitru, Michal Strankowski, Petre Rotaru, Valentin Ion, Cristina Vasiliu, Barbara Becker, Maria Dinescu; <i>Applied Surface Science</i> , 255, 15, 6786-6789, 2009	1.616 (2009)
		21
16	Thermal decomposition kinetics of some aromatic azomonoethers. Part IV. Non-isothermal kinetics of 2-allyl-4-((4-(4-methylbenzyloxy)phenyl)diazanyl)phenol in air flow; Andrei Rotaru* , Anca Moanţă, Gina Popa, Petre Rotaru, Eugen Segal; <i>Journal of Thermal Analysis and Calorimetry</i> , 97, 2, 485-491, 2009	1.587 (2009)
		17
17	Thermal characteristics of Ni-Ti SMA (shape memory alloy) actuators; Sonia Degeratu, Petre Rotaru, Gheorghe Manolea, Horia Octavian Manolea, Andrei Rotaru* ; <i>Journal of Thermal Analysis and Calorimetry</i> , 97, 2, 695-700, 2009	1.587 (2009)
		9
18	Isoconversional linear integral kinetics of the non-isothermal evaporation of 4-[(4-chlorobenzyl)oxy]-4'-trifluoromethyl-azobenzene; Andrei Rotaru* , Mihai Goşa, Eugen Segal; <i>Studia Universitatis Babeş-Bolyai Chemia</i> , 54, 3 185-192, 2009	0.086 (2009)
		4
19	Thermal analysis of azoic dyes; Part I. Non-isothermal decomposition kinetics of [4-(4-chlorobenzyl)oxy]-3-methylphenyl(<i>p</i> -tolyl)diazene in dynamic air atmosphere; Andrei Rotaru* , George Brătulescu, Petre Rotaru; <i>Thermochimica Acta</i> , 489, 1-2, 63-69, 2009	1.742 (2009)
		16
20	Thermal decomposition kinetics of some aromatic azomonoethers. Part III. Non-isothermal study of 4-[(4-chlorobenzyl)oxy]-4'-chloro-azobenzene in dynamic air atmosphere; Andrei Rotaru* , Anca Moanţă, Petre Rotaru, Eugen Segal; <i>Journal of Thermal Analysis and Calorimetry</i> , 95, 1, 161-166, 2009	1.587 (2009)
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21	Multifunctional thin films of lactoferrin for biochemical use deposited by MAPLE technique; Catalin Constantinescu, Alexandra Palla-Papavlu, Andrei Rotaru , Paula Florian, Florica Chelu, Madalina Icriverzi, Anca Nedelcea, Valentina Dincă, Anca Roşeanu, Maria Dinescu; <i>Applied Surface Science</i> , 255, 10, 5491-5495, 2009	1.616 (2009)
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22	Computational thermal and kinetic analysis. Software for non-isothermal kinetics by standard procedure; Andrei Rotaru* , Mihai Goşa, Petre Rotaru; <i>Journal of Thermal Analysis and Calorimetry</i> , 94, 2 367-371, 2008	1.630 (2008)
		12
23	Thermal decomposition kinetics of some aromatic azomonoethers. Part II. Non-isothermal study of three liquid crystals in dynamic air atmosphere; Andrei Rotaru* , Anna Kropidłowska, Anca Moanţă, Petre Rotaru, Eugen Segal; <i>Journal of Thermal Analysis and Calorimetry</i> , 92, 1, 233-238, 2008	1.630 (2008)
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24	Thermal characterization of humic acids and other components of raw coal; Andrei Rotaru* , Irina Nicolaescu, Petre Rotaru, Constantin Neaga; <i>Journal of Thermal Analysis and Calorimetry</i> , 92, 1, 297-300, 2008	1.630 (2008)
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25	Thermal analysis and thin films deposition by matrix assisted pulsed laser evaporation of a 4CN type azomonoether; Andrei Rotaru* , Catalin Constantinescu, Petre Rotaru, Anca Moanță, Marius Dumitru, Margareta Socaciu, Maria Dinescu, Eugen Segal; <i>Journal of Thermal Analysis and Calorimetry</i> , 92, 1, 279-284, 2008	1.630 (2008)
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26	Heteroleptic Cd(II) complex, potential precursor for semiconducting CdS layers. Thermal stability and non-isothermal decomposition; Anna Kropidłowska, Andrei Rotaru , Michal Strankowski, Barbara Becker, Eugen Segal; <i>Journal of Thermal Analysis and Calorimetry</i> , 91, 3, 903-909, 2008	1.630 (2008)
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27	Influence of the preparation method on the ampicilin incorporation in hydrotalcite-like compounds; Rodica Zăvoianu, Octavian Dumitru Pavel, Anca Cruceanu, Mihaela Florea, Ruxandra Bîrjega, Andrei Rotaru , Corina Bradu, Petre Rotaru; <i>Nanoporous Materials V</i> (World Scientific Publishing Co. Pte Ltd., A. Sayari & M. Jaroniec Eds.), International Symposium on Nanoporous Materials V (Nano-5), Vancouver Canada 25-28 May 2008, 717-728, ISBN-13 978-981-277-915-1, 2008	- (2008)
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28	Thermal stability of some new complexes bearing ligands with polymerisable groups; Mihaela Badea, Rodica Olar, Dana Marinescu, Eugen Segal, Andrei Rotaru ; <i>Journal of Thermal Analysis and Calorimetry</i> , 88, 2, 317-321, 2007	1.483 (2007)
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29	Thermal decomposition kinetics of some aromatic azomonoethers; Part I. Decomposition of 4-[(4-chlorobenzyl)oxy]-4'-nitro-azobenzene; Andrei Rotaru , Anca Moanță, Ion Sălăgeanu, Petru Budrugeac, Eugen Segal; <i>Journal of Thermal Analysis and Calorimetry</i> , 87, 2, 345-355, 2007	1.483 (2007)
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30	On the inappropriate fit of diffusion functions at thermal decomposition of some azomonoethers in liquid state; Andrei Rotaru* , Anna Kropidłowska, Petre Rotaru; <i>Annals of the University of Craiova-Physics AUC</i> 17, 2, 115-118, 2007	- (2007)
		2
31	Kinetic study of the thermal decomposition of some aromatic ortho-chlorinated azomonoethers; 1. Decomposition of 4-[(2-chlorobenzyl)oxy]-4'-trifluoromethyl-azobenzene; Andrei Rotaru , Bogdan Jurca, Anca Moanță, Ion Sălăgeanu, Eugen Segal; <i>Revue Roumaine de Chimie</i> , 51, 5, 373-378, 2006	0.208 (2006)
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32	"Available Quantities" in Thermodynamics; Ion Petre, Andrei Rotaru ; <i>Annals of the University of Craiova-Physics AUC</i> 15, II, 21-25, 2005	-
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33	New thermodynamic state functions; Andrei Rotaru* ; <i>Annals of the University of Bucharest, Seria Chimie</i> , 13, 269-275, 2004	-
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