

Laboratory 2: Chemical Thermodynamics

BOOKS

1. S. Tanasescu, *Structure-Processing-Property Relationships in Stoichiometric and Nonstoichiometric Oxides*, Book published abroad as Academic Editor, Ed. InTech Open, 90 pages, 2020, DOI: 10.5772 / intechopen.77573; ISBN 978-1-78985-452-7; eBook ISBN: 978-1-83969-130-0, <http://www.intechopen.com/books/structure-processing-properties-relationships-in-stoichiometric-and-nonstoichiometric-oxides>;
2. M. Contineanu, A. Neacsu, A. E. Stanciu, *Defecte de retea*, Ed. Ars Docendi-Universitatea din București, ISSN 978-973-558-981-3, București, 139 pages, 2017.
3. M. Teodorescu, D. Dragoescu, A. Barhala, *Echilibre lichid-vapori in sisteme de neelecroliti, Metode experimentale, modelare de date, exemple si aplicatii*, Editura Paralela 45 S.A., Pitești, Arges, 268 pages, 2010, ISBN 978-973-47-1087-4.
4. S. Tanasescu, D.I. Marchidan, *Pile cu electrolit solid*, Ed. Științifică și Enciclopedică, București, 83 pages, 1983.

STUDIES AND DOCUMENTS OF COORDINATION AND SUPPORT REGARDING THE MANAGEMENT OF NANOMATERIALS (DOMAIN "NANOSAFETY")

1. S. Tanasescu, J. Hoeck, *Inventory of the harmonized national regulation-oriented tasks*, 2017, vol. coordinator: The Dutch National Institute for Public Health and the Environment (RIVM), 66 pages.
https://www.rivm.nl/en/About_RIVM/Mission_and_strategy/International_Affairs/International_Projects/Completed/ProSafe/ProSafe_Deliverables:xvVbzWzuS8eQnl9AI07Qmw/ProSafe_D4_04_DR_Inventory_of_the_harmonized_national_regulation_oriented_tasks.org
2. K. Höhener, J. Hoeck, H. C. Lehmann, S. Tanasescu, *Prosafe Safe by design (SbD) implementation concept*, vol. coordinator: The Dutch National Institute for Public Health and the Environment (RIVM), 2016 (restricted), 2019 (Public-Publication date 01/07/2019 - 14:43), 18 pages
https://www.rivm.nl/en/About_RIVM/Mission_and_strategy/International_Affairs/International_Projects/Completed/ProSafe/ProSafe_Deliverables:xvVbzWzuS8eQnl9AI07Qmw/ProSafe_Safe_by_Design_SbD_implementation_concept_final.org
3. H. Krug, M. Apostolova, M. A. Bake, G. Chambers, H. Chiriac, E. Herzog, V. Hand, J. Höck, P. Hoet, N. Lupu, D. McCormack, M. Remskar, G. Robillard, J. Smisterova, J. Stetkiewicz, S. Tanasescu, A. Tsatsakis, D. Vaughn, P. Wick, J. Wörle-Knirsch, *Working Report on the Status Quo of Nanomaterials Impact on Health and Environment*, Ed by H. F. Krug, Technological University Dublin ARROW@TU

- Enachescu, D. Dascalu, pp. 72-87, Editura Academiei Române, București, România, 2018;
7. S. Tanasescu, F. Maxim, A. Neacsu, F. Teodorescu, A. Milea, *Key parameters controlling the stability and reactivity of micro and nanostructured materials: energetics of nanomaterials* capitol în vol. 24, *Nanomaterials, Nanoparticles, Nanodevices*, din seria “Micro and Nanoengineering”, Eds.: M. Zaharescu, H. Chiriac, D. Dascalu, pp. 33-51, ISBN 978-973-27-2643-3, Editura Academiei Române, București, România, 2016, <https://www.link2nano.ro/acad/mne/>;
 8. M. Teodorescu, *Experiments with Possible Application to the Homogenous Solutions of Solid Nanostructures with Liquid Solvents*, capitol în vol. 24 *Nanomaterials, Nanoparticles, Nanodevices* din seria “Micro and Nanoengineering”, Eds.: M. Zaharescu, H. Chiriac, D. Dascalu, pp. 51-69, ISBN 978-973-27-2643-3, Editura Academiei Române, București, România, 2016.
 9. F. Sirbu, A.C. Ion, I. Ion, *Effect of different solvents in the exfoliated graphite nanoplatelets systems at (313.15 and 318.15) K temperatures* capitol în vol 24 *Nanomaterials, Nanoparticles, Nanodevices*, din seria Micro and Nanoengineering, pp. 127-143; ISBN: 978-973-27-2643-3, Editura Academiei Române, București, România, 2016.
 10. F. Sirbu, I. Ion, A. C. Ion, *Comparative Thermodynamic Study on Exfoliated Graphite Nanoplatelets Systems Dispersed in Dimethylformamide and water at T= (293.15, 298.15 and 303.15) K*, capitol în vol. 22 *New Applications of Nanomaterials din seria Micro and Nanoengineering*, Eds. Alina Catrinel Ion, Dan Dascalu, Gabriela Carja, pp. 137-153, ISBN 978-973-27-2311-1, Editura Academiei Române, București, România, 2014.
 11. I. Ion, A. Culetu, D. Gherase, F. Sirbu, A.C. Ion, *Environmental applications of carbon-based nanomaterials. Acetylcholinesterase biosensors for organophosphate pesticide analysis* capitol în vol. 22 *New Applications of Nanomaterials*, Eds. Alina Catrinel Ion, Dan Dascalu, Gabriela Carja, pp. 33-51, ISBN 978-973-27-2311-1, Editura Academiei Române, București, România, 2014.
 12. F. Maxim, P. Ferreira, P. M. Vilarinho, *Strategies for the structure and morphology control of BaTiO₃ nanoparticles*, capitol în vol. 22 *New Applications of Nanomaterials*, in seria Micro and Nanoengineering, Eds. Alina Catrinel Ion, Dan Dascalu, Gabriela Carja, pp. 83-97, Editori A.C. Ion, D. Dascalu, G. Carja and M.L. Ciurea, Editura Academiei Române, București, România, 2014.
 13. S. Tanasescu, A. Petcu, A. Ianculescu, *Effects of doping and nonstoichiometry on the thermodynamic properties of multiferroic ceramics*, Chapter in *Ferroelectrics-* vol II, ISBN-978-953-307-182-4, InTech publisher, Ed. Mickael Lallart, Cap. 15, pp. 347-372, 2011.
 14. R. M. Piticescu, R. Orban, S. Tanasescu, R. Piticescu, V. Badilita, M. Lucaci, *Correlations between nanostructure and thermodynamic properties of NiAlMx-alumina composites*, în vol. 14 *New applications of micro- and nanotechnologies*, din seria “Micro and Nanoengineering” pp. 45-56, Editura Academiei Române, București, România, 2009.
 15. S. Tanasescu, C. Marinescu, *Contribution to Data base concerning the risks and*

- benefits with respect to nano-metal oxides*, in *Nanomaterials: Impact on Health and Environment*, pp. 25, TEMAS AG, Zurich, Switzerland, 2008.
16. S. Tanasescu, C. Marinescu, *Size effects controlling the toxicity and energetics of nanostructured oxide materials*, in Vol. 9 *Convergence of micro-nano-biotechnologies*, Chapter in seria "Micro and Nanoengineering", Editura Academiei Române, București, România, 59-76, 2006.
 17. S. Tanasescu, N. D. Totir, D. Patrascu, D. Neiner, *High Temperature Thermodynamic Data of the Ca- and Sr- Doped LaMnO₃*, Schriften des Forschungszentrums Julich, Series Energy Technology, Part I, pp. 107-110, 2000.
 18. S. Tanasescu, N.D. Totir and D. I. Marchidan, *A Comparative Study of the Influence of Compositional Variables on the Thermodynamic Properties in the Substituted Lanthanum Manganites*, Schriften des Forschungszentrums Julich, Series Energy Technology, Part I, pp. 111-114, 2000.
 19. S. Tanasescu, N. D. Totir, D. I. Marchidan, *Thermodynamic studies of some composite cathodes used in SOFC* in Solid Oxide Fuel Cells V, The Electrochemical Society, Inc., Eds. U. Stimming, S.C. Singhal, H. Tagawa, W. Lehnert, pp. 879-887, 1997.
 20. S. Tanasescu, N.D. Totir, D.I. Marchidan, *The use of electrochemical cells with solid oxide electrolyte for the study of high temperature oxidation of metals* in: High Temperature Electrochemical Behaviour of Fast Ion and Mixed Conductors, Ed.: F.W. Poulsen, J.J. Bentzen, T. Jacobsen, E. Skou and M.J.L. Østergard, pp. 435-440, 1993.

SCIENTIFIC PAPERS IN ISI JOURNALS

2023

1. D. Gheorghe, S. Díez-Villares, R. Sandu, A. Neacsu, D. A. Neacsu, A. Serban, A. Botea-Petcu, V. T. Popa, J. Garcia-Fernandez, R. López López, M. de la Fuente Freire, F. Teodorescu, S. Tanasescu, *PEGylation Effects on the Interaction of Sphingomyelin Nanoemulsions with Serum Albumin: A Thermodynamic Investigation*, *Macromolecular Materials and Engineering*, 308(6), (2023) 2200622, <https://doi.org/10.1002/mame.202200622>, I.F.=4.402.
2. A. Serban, F. Teodorescu, A.M. Sofronia, I. Atkinson, C. A. Marinescu, A. Botea-Petcu, F. Maxim, S. Tanasescu, *Interplay of the hydroxyapatite structure and morphology with the thermodynamic parameters at hydroxyapatite/protein interface*, *Ceramics International*, 49(22), (2023) 34734-34741, <https://doi.org/10.1016/j.ceramint.2023.08.140>, I.F.=5.532.
3. D. Dragoescu, *The Study of Thermodynamic Properties for Cyclohexanone + Alkylbenzenes Binary Mixtures at Temperatures Up to 318.15 K and Normal Pressures*, *International Journal of Thermophysics*, 44, (2023) 144, doi.org/10.1007/s10765-023-03253-8, I.F.=2.2.
4. L. Aricov, A. Precupas, M. Tudose, D. Baltag, B. Trică, R. Sandu, A. R. Leonties, *Trametes versicolor laccase activity modulated by the interaction with gold nanoparticles*, *Environmental Research*, 237, (2023) 116920, I.F.=8.3.

5. D. Vlase, G. Vlase, G. Ursuț, P. Sfirloaga, F. Manea, M. Budiul, A. Rotaru, T. Vlase, *The in-depth study of Romanian prehistoric ceramics: Late Neolithic/Eneolithic pottery and clay materials from the Foeni Tell-Orthodox cemetery in Timiș county*, *Ceramics International*, 49(9), (2023) 14941-14956, <https://doi.org/10.1016/j.ceramint.2022.12.120>, I.F.=5.2.
6. A. Harabor, P. Rotaru, N.A. Harabor, P. Nozar, A. Rotaru, *Structural, thermal and superconducting properties of Ag₂O-doped YBa₂Cu₃O_{7-x} composite materials*, *Ceramics International*, 49(9), (2023), 14904-14916, DOI:10.1016/j.ceramint.2022.08.100, I.F.=5.2.
7. T. Lupascu, O. Petuhov, E. Culighin, T. Mitina, M. Rusu, A. Rotaru, *The influence of surface chemistry upon the textural, thermal and sorption properties of apple-pectin adsorbent materials*, *Journal of Thermal Analysis and Calorimetry*, 148, (2023), 4573-4587, DOI: 10.1007/s10973-022-11465-7, I.F.=4.4.
8. A. Moanță, A.C. Carabet, I. Pălărie, A. Rotaru, M. Popescu, M. Leulescu, G. Iacobescu, M. Stoicescu, P. Rotaru, *Thermal, physical and biological properties of new etheric dyes with chlorine and two azo groups of anthracene*, *Journal of Thermal Analysis and Calorimetry*, 148 (10), (2023) 4615-4639, <https://doi.org/10.1007/s10973-023-12016-4>, I.F.=4.4.
9. L. Sciascia, D. Lenaz, A. Rotaru, F. Princivale, F. Parisi, *An innovative method for highly-efficient fabrication of carbon fiber precursors via acrylonitrile emulsion copolymerization coupled to a chemical oscillator*, *Surfaces and Interfaces*, 37, (2023) 102686, <https://doi.org/10.1016/j.surfin.2023.102686>, I.F.=8.3.
10. D. Sarbu, N.G. Bizdoaca, N. Cioatera, C.I.Vladu, A. Rotaru, C.F. Pana, D.M. Patrascu, G. Florian, P. Rotaru, *Thermal stability, rheological and morpho-structural properties of the magnetorheological fluid MRF122 employed in spherical joint mechanisms*, *Journal of Thermal Analysis and Calorimetry*, 148, (2023), 1289-1308, DOI: 10.1007/s10973-022-11461-x, I.F.=4.4
11. M. Leulescu, I. Palarie, A. Rotaru, A. Moanta, N. Cioatera, M. Popescu, G. Iacobescu, E. Morintale, M. Bojan, M. Ciocilteu, I. Petrisor, P. Rotaru, *Sunset Yellow: physical, thermal and bioactive properties of the widely employed food, pharmaceutical and cosmetic orange azo-dye material*, *Journal of Thermal Analysis and Calorimetry*, 148, (2023), 1265-1287, DOI: 10.1007/s10973-022-11617-9, I.F.=4.4.
12. I. Atkinson, A.M. Seciu-Grama, A. Serafim, S. Petrescu, M. Voicescu, E.A. Anghel, C. Marinescu, R.A. Mitran, O.C. Mocioiu, J.P. Cusu, D. Lincu, A.M. Prelipcean, O. Craciunescu, *Bioinspired 3D scaffolds with antimicrobial, drug delivery, and osteogenic functions for bone regeneration*, *Drug Delivery and Translational Research*, (2023) 1-20, <https://doi.org/10.1007/s13346-023-01448-y>, I.F.=5.4.

2022

1. N. E. Yamani, E. Mariussen, M. Gromelski, E. Wyrzykowska, D. Grabarek, T. Puzyn, S. Tanasescu, M. Dusinska, E. Rundén-Pran, *Hazard identification of nanomaterials: In silico unraveling of descriptors for cytotoxicity and genotoxicity*, *Nano Today*, 46, (2022) 101581, <https://doi.org/10.1016/j.nantod.2022.101581>, I.F.=18.962.

2. A.P. Shchamialiou, V.S. Samuilov, N.V. Holubeva, A.G. Paddubski, D. Drăgoescu, F. Sîrbu, *Thermodynamic properties of binary liquid mixtures of cyclohexane + n-propylbenzene and cyclohexane + cumene at different temperatures and pressures.* *Int. International Journal of Thermophysics*, 43 (5), (2022), 1-41, doi.org/10.1007/s10765-022-02984-4, I.F.=1.608.
3. C.S. Stoicescu, D. Culita, N. Stanica, F. Papa, R.N. State, G. Munteanu, *Temperature programmed reduction of a core-shell synthetic magnetite: Dependence on the heating rate of the reduction mechanism*, *Thermochimica Acta*, 709, (2022), 179146, DOI: 10.1016/j.tca.2022.179146, I.F.=3.378.
4. M-V. Hovanet, E. A. Ozon, E. Morosan, O. C. Seremet, E. Oprea, E.-I Geană, A.I. Anghel, C. Bădiceanu, L. E. Dutu, C.- S. Stoicescu, E. Nagoda, R. Ancuceanu, *Wound Healing and Anti-Inflammatory Effects of a Newly Developed Ointment Containing Jujube Leaves Extract*, *Life*, 12 (12), 1947, (2022), https://doi.org/10.3390/life12121947, I.F.=3.253.
5. A. Neacsu, D. Gheorghe, V. Tecuceanu, S. Perisanu, *Investigation of thermochemical features of gamma irradiated tryptophan stereoisomers*, *Journal of the Mexican Chemical Society*, 66(1), (2022) 42-56, I.F.=0.869.
6. A. Neacsu, D. Gheorghe, *Characterisation of some co-fired agricultural by-products for energetic use*, *Journal of the Mexican Chemical Society*, 66(4), (2022) 408-420, I.F.=0.869.
7. S. Ion, F. Olanescu, F. Teodorescu, R. Tincu, D. Gheorghe, V.I. Parvulescu, M. Tudorache, *DES-based biocatalysis as a green alternative for the L-menthyl ester production based on the L-menthol acylation*, *Molecules*, (2022) 27(16), 5273, I.F.=4.927.
8. V. Chihaiia, M. Ghinea, S. Chihaiia, A. Neacsu, *Mathematical Chemistry Approaches for Computer-Aid Design of Free-Shaped Structures in Architecture and Construction Engineering*, *Mathematics*. 10, (2022), 4415, I.F.=2.592.
9. A. Precupas, A.R. Leonties, A. Neacsu, D.G. Angelescu, V.T. Popa, *Bovine hemoglobin thermal stability in presence of naringenin: calorimetric, spectroscopic and molecular modeling studies*, *Journal of Molecular Liquids*, 361, (2022), 119617, 1-13, I.F.=6.633.

2021

1. N. Jeliaskova, M.D. Apostolova, C. Andreoli, F. Barone, A. Barrick, C. Battistelli, C. Bossa, A. Botea-Petcu, A. Châte, I. De Angelis, M. Dusinska, N. El Yamani, D. Gheorghe, A. Giusti, P. Gómez-Fernández, R. Grafström, M. Gromelski, N. Raun Jacobsen, V. Jeliaskov, K. Alstrup Jensen, N. Kochev, P. Kohonen, N. Manier, E. Mariussen, A. Mech, J. María Navas, V. Paskaleva, A. Precupas, T. Puzyn, K. Rasmussen, P. Ritchie, I. Rodríguez Llopis, E. Rundén-Pran, R. Sandu, N. Shandilya, S. Tanasescu, A. Haase, P. Nymark, *Towards FAIR Nanosafety Data*, *Nature Nanotechnology* 16(6), (2021) 644-654, I.F.=39.213.

2. F. Maxim, K. Karalis, P. Boillat, D.T. Banuti, J. I. Marquez Damian, B. Niceno, C. Ludwig, *Thermodynamics and dynamics of supercritical water pseudo-boiling*, *Advanced Science* 8, (2021), 2002312, I.F.=16.806.
3. F. Khoshnaw, C. Marinescu, A.M. Sofronia, C. Munteanu, M. Marcu, L. Eugenia Barbulescu, C. Ciobota, E.M. Cojocaru, S. Tanasescu, A. Paraschiv, *Microstructural and thermoanalytical characterization of super duplex stainless steel - UNS S32760-F55*, *Materials Today Communications* 28, (2021) 102644, I.F.=2.678.
4. A.P. Shchamialiou, V.S. Samuilov, N.V. Holubeva, D. Dragoescu, F. Sirbu, *Density, speed of sound and derived thermodynamic properties of binary liquid mixtures of 1-chlorohexane with toluene and tetradecane under high pressures*, *The Journal of Chemical Thermodynamics* 154, (2021) 106329, I.F.=3.178.
5. D. Dragoescu, F. Sirbu, L. Almasy, *Study of the thermophysical properties for aqueous solutions of alkanediols binary mixtures*, *Journal of Molecular Liquids* 335, (2021) 116150, I.F.=6.165.
6. F. Sirbu, D. Dragoescu, A. Shchamialiou, *Optical and viscometric properties for 1-chlorohexane+ toluene/tetradecane binary mixtures at temperatures from 298.15 K to 318.15 K and atmospheric pressure*, *Journal of Molecular Liquids* 339, (2021) 116171, I.F.=6.165.
7. M. Leulescu, A. Rotaru, A. Moanță, G.Iacobescu, Ion Pălărie, N. Cioateră, M. Popescu, M.C. Criveanu, E. Morîntale, M. Bojan, P. Rotaru, *Azorubine: Physical, thermal and bioactive properties of the widely employed food, pharmaceutical and cosmetic red azo-dye material*, *Journal of Thermal Analysis and Calorimetry* 143(6), (2021) 3945-3967, I.F.=4.626.
8. S. Degeratu, G.E. Subțirelu, A. Rotaru, N.G. Bîzdoacă, P. Rotaru, *The electro-mechanical control of element NiTi shape memory alloy strip while bending, based on thermal analysis evidence*, *Journal of Thermal Analysis and Calorimetry* 143(6), (2021) 3805-3815, I.F.=4.626.
9. A. Neacsu, D. Gheorghe, *Characterization of biomass renewable energy resources from some perennial species*, *Revue Roumaine de Chimie* 66(4), (2021), DOI 10.33224/rch.2021.66.4.02, I.F.=0.25.
10. A. Precupas, R. Sandu, A.V.F. Neculae, A. Neacsu, V.T. Popa, *Calorimetric, spectroscopic and computational investigation of morin binding effect on bovine serum albumin stability*, *Journal of Molecular Liquids* 333, (2021), 115953, I.F.=6.165.

2020

1. A. Precupaș, D. Gheorghe, A. Botea-Petcu, A.R. Leonties, R. Sandu, V.T. Popa, E. Mariussen, N. El Yamani, E. Rundén-Pran, V. Dumit, Y. Xue, M. Cimpan, M. Dusinska, A. Haase, S. Tănăsescu, *Thermodynamic parameters at bio/nano interface and nanomaterial toxicity: A case study on BSA interaction with ZnO, SiO₂ and TiO₂*, *Chemical Research in Toxicology* 33(8), (2020) 2054-2071, I.F.=3.739.
2. A.P. Shchamialiou, V.S. Samuilov, F.M. Mosbakh, N.V. Holubeva, A.G. Paddubski, D. Drăgoescu, F. Sîrbu, *Densities, speed of sound, and derived thermodynamic*

- properties of toluene, tetradecane, and 1-chlorohexane in the compressed liquid region*, Fluid Phase Equilibria 507, (2020) 112427, I.F.=2.838.
3. A. Neacsu, D. Gheorghe, C. Marinescu, M. Demeter, V. Tecuceanu, *Electron beam irradiated guanidine derivatives study using thermal analysis methods*, Revista de Chimie 71(5), (2020) 506-521, I.F.=1.755.
 4. D. Gheorghe, A. Neacsu, S. Perisanu, *The thermochemistry of eight membered ring hydrocarbons. the enthalpy of formation of cyclooctane*, Revista de Chimie 71(3), (2020) 507-515, I.F.=1.755.
 5. R. Ancuceanu, B. Tamba, C.S. Stoicescu, M. Dinu, *Use of QSAR global models and molecular docking for developing new inhibitors of c-src tyrosine kinase*, International Journal of Molecular Sciences 21(1), (2020) 19, I.F.=5.923.
 6. J.A. McNulty, D. Pesquera, J. Gardner, A. Rotaru, H.Y. Playford, M.G. Tucker, M.A. Carpenter, F.D. Morrison, *Local Structure and Order-Disorder Transitions in "Empty" Ferroelectric Tetragonal Tungsten Bronzes*, Chemistry of Materials 32(19), (2020) 8492-8501, I.F.=9.811;
 7. C.I. Pascu, S. Gheorghe, A. Rotaru, C. Nicolicescu, N. Cioatera, A.S. Rosca, D. Sarbu, P. Rotaru, *Ti-based composite materials with enhanced thermal and mechanical properties*, Ceramics International 46(18, Part B), (2020) 29358-29372, I.F.=4.527.
 8. T. Lupascu, O. Petuhov, N. Timbaliuc, S. Cibotaru, A. Rotaru, *Adsorption capacity of Vitamin B12 and Creatinine on highly-mesoporous activated carbons obtained from lignocellulosic raw materials*, Molecules 25(13), (2020) 3095, I.F.=4.411.
 9. L.N. Dumitrescu, P. Neacsu, M.G. Necula, A. Bonciu, V. Marascu, A. Cimpean, A. Moldovan, A. Rotaru, V. Dinca, M. Dinescu, *Induced-Hydrophilicity and in vitro Preliminary Osteoblast Response of Polyvinylidene Fluoride (PVDF) Coatings Obtained via MAPLE Deposition and Subsequent Thermal Treatment*, Molecules 25 (3), (2020) 582, I.F.=4.411.
 10. A.R. Corbu, A. Rotaru, V. Nour, *Edible vegetable oils enriched with carotenoids extracted from by-products of sea buckthorn (Hippophae rhamnoides ssp. sinensis): the investigation of some characteristic properties, oxidative stability and the effect on thermal behaviour*, Journal of Thermal Analysis and Calorimetry 142(2), (2020) 735-747, I.F.=4.626.
 11. V. Lozovan, V.C. Kravtsov, E. Gorincioi, A. Rotaru, E.B. Coropceanu, N. Siminel, M.S. Fonari, *Chromism, positional, conformational and structural isomerism in a series of Zn(II) and Cd(II) coordination polymers based on methylated azine N,N-donor linkers*, Polyhedron 180(114411), (2020) 1-12, I.F.=3.052.
 12. G. Florian, A.R. Gabor, C.A. Nicolae, A. Rotaru, N. Stanica, N.G. Bizdoaca, P. Rotaru, *Thermomechanical, calorimetric and magnetic properties of a Ni-Ti shape memory alloy wire*, Journal of Thermal Analysis and Calorimetry 140, (2020) 527-544, I.F.=4.626.
 13. C. Carabet, A. Moanta, I. Palarie, G. Iacobescu, A. Rotaru, M. Leulescu, M. Popescu, P. Rotaru, *Physical, thermal and biological properties of yellow dyes with two azodiphenylether groups of anthracene*, Molecules 25(23), (2020) 5s757, I.F.=4.411.

1. A. Mech, K. Rasmussen, P. Jantunen, L. Aicher, M. Alessandrelli, U. Bernauer, R. Draisci, M. Dusinska, A. G. Oomen, M. L. Polci, C. Riebeling, J. Sandström, B. Shivachev, S. Stateva, S. Tanasescu, R. Tsekovska, H. Wallin, M. F. Wilks, S. Zellmer & M.D. Apostolova, *Insights into possibilities for grouping and read-across for nanomaterials in EU chemicals legislation*, *Nanotoxicology* 13, (2019) 119-141, I.F.=5.811.
2. A. Giusti, R. Atluri, R. Tsekovska, A. Gajewicz, M.D. Apostolova, C. L. Battistelli, E. A.J. Bleeker, C. Bossa, J. Bouillard, M. Dusinska, P. Gómez-Fernández, R. Grafström, M. Gromelski, Y. Handzhiyski, N.R. Jacobsen, P. Jantunen, K. A. Jensen, A. Mech, J.M. Navas, P. Nymark, A.G. Oomen, T. Puzyn, K. Rasmussen, J. Riego Sintes, B. Suarez-Merino, S. Tanasescu, H. Wallin, A. Haase, *Nanomaterial grouping: Existing approaches and future recommendations*, *NanoImpact* 16, 100182, (2019) 1-18 (Review article), I.F.=5.478.
3. O. Gingu, S. Tanasescu, G. Stoian, N. Lupu, P. Rotaru, *Nanostructured AgCu system at repeated melting*, *Journal of Thermal Analysis and Calorimetry* 138(4), (2019) 2923-2936, I.F.=2.471.
1. C. Marinescu, A.M. Sofronia, E.M. Anghel, R. Baies, D. Constantin, A.M. Seciu, O. Gingu, S. Tanasescu, *Microstructure, stability and biocompatibility of hydroxyapatite - titania nanocomposites formed by two step sintering process*, *Arabian Journal of Chemistry* 12(6), (2019) 857-867, I.F.=3.298.
2. F. Maxim, C. Contescu, P. Boillat, B. Niceno, K. Karalis, A. Testino, C. Ludwig, *Visualization of supercritical water pseudo-boiling at Widom line crossover*, *Nature Communications* 10, (2019) 1-11, I.F.=11.878.
3. F. Sirbu, D. Dragoescu, A. Shchamialiou, T. Khasanshin, *Densities, speeds of sound, refractive indices, viscosities and their related thermodynamic properties for n-hexadecane + two aromatic hydrocarbons binary mixtures at temperatures from 298.15 K to 318.15 K*, *The Journal of Chemical Thermodynamics* 128, (2019) 383-393, I.F.=2.888.
4. T.S. Khasanshin, V.S. Samuilov, A.P. Shchamialiou, D. Dragoescu, F. Sirbu, *Thermodynamic properties of cumene, tert-butylbenzene, and n-hexadecane under elevated pressures*, *Journal of Chemical Thermodynamics* 134, (2019) 96-105, I.F.=2.888.
5. D. Dragoescu, F. Sirbu, A. Shchamialiou, *Thermodynamic properties for binary mixtures of 1-chlorohexane + some hydrocarbons at different temperatures and atmospheric pressure*, *Journal of Molecular Liquids* 294, (2019) 111510, I.F.=4.561.
6. M. Teodorescu, V. T. Popa, *Solution molar enthalpies for 1-butyl-3-methylimidazolium chloride + 1-propanol system at (303.56 and 318.68) K*, *Revue Roumaine de Chimie* 64(5), (2019) 445-452, I.F.=0.385.
7. A. Neacsu, D. Gheorghe, C. Marinescu, E. Stancu, V. Tecuceanu, C. Ciuculescu, *The effect of gamma rays upon L-proline and 4-hydroxy-L-proline. A thermochemical study*, *Radiation Physics and Chemistry* 156, (2019) 115-127, I.F.=2.226.
8. D. Gheorghe, A. Neacsu, I. Contineanu, E.M. Anghel, F. Teodorescu, I.E. Chican, S. Perisanu, S. Tanasescu, *Interplay between composition, structural dynamics and*

thermodynamic data in amino acids nitrates, Journal of Thermal Analysis and Calorimetry 138(2), (2019) 1233–1242, I.F.=2.783.

9. D. Gheorghe, A. Neacsu, *Heat of some plant biomass species for biofuels production*, Revue Roumaine de Chimie. 64(7), (2019) 633–639, I.F.=0.381.
10. G. Florian, A.R. Gabor, C.A. Nicolae, A. Rotaru, C.A. Marinescu, G. Iacobescu, N. Stanica, S. Degeratu, O. Gingu, P. Rotaru, *Physical and thermophysical properties of a commercial Ni-Ti shape memory alloy strip*, Journal of Thermal Analysis and Calorimetry 138(3), (2019) 1841-1851, I.F.=2.731.

2018

1. C. Marinescu, M. Ben Ali, A. Hamdi, Y. Cherifi, A. Barras, Y. Coffinier, S. Somacescu, V. Raditoiu, S. Szunerits, R. Boukherroub, *Cobalt phthalocyanine-supported reduced graphene oxide: A highly efficient catalyst for heterogeneous activation of peroxymonosulfate for rhodamine B and pentachlorophenol degradation*, Chemical Engineering Journal, 336, (2018), 465-475, I.F.=6.735.
2. T.S. Khasanshin, V.S. Samuilov, A.P. Shchamialiou, F.M. Mosbakh, D. Dragoescu, F. Sirbu, *Liquid density measurements of cumene, tert-butylbenzene, and hexadecane over wide ranges of temperature and pressure*, Fluid Phase Equilibria 463, (2018), 121-127, I.F.=2.473.
3. F. Sirbu, A.C. Ion, L. Capra, I. Ion, *A thermodynamics study on the tetrahydrofuran effect in exfoliated graphite nanoplatelets and activated carbon mixtures at temperatures between (293.15 and 308.15) K*, Advances in Materials Science and Engineering, (2018) 1-13, I.F.=1.399.
4. F. Sirbu, I.L.Gheorghe, *Study on thermophysical properties in the ternary mixture of N-methylglycine solute with (d-glucose+water) binary solvent at temperatures of 298.15, 308.15, and 318.15 K*, Journal of Molecular Liquids 253, (2018) 149-159, I.F.=4.561.
5. A. Neacsu, D. Gheorghe, I. Contineanu, A.M. Sofronia, F. Teodorescu, S. Perisanu, *Enthalpies of combustion and formation of histidine stereoisomers*, Journal of Chemistry 2018, (2018), 7801381, I.F.=1.727.
6. A. Neacsu, *Physicochemical investigation of the complexation between γ -cyclodextrin and doxorubicin in solution and in solid state*, Thermochemica Acta 661 (2018) 51-58, I.F.=2.3.

2017

1. C.F. Rusti, V. Badilita, A.M. Sofronia, D. Taloi, E.M. Anghel, F. Maxim, C. Hornoiu, C. Munteanu, R.M. Piticescu, S. Tanasescu, *Thermodynamic properties of $Ba_{0.75}Sr_{0.25}TiO_3$ nanopowders obtained by hydrothermal synthesis*, Journal of Alloys and Compounds 693, (2017) 1000-1010, I.F.=3.779.
2. F. Teodorescu, Y. Oz, G. Quéniat, A. Abderrahmani, R. Sanyal, A. Sanyal, R. Boukherroub, S. Szunerits, *Photothermally triggered on-demand insulin release from reduced graphene oxide modified hydrogels*, Journal of Controlled Release 246, (2017) 164-173, I.F.=7.786.

3. F. Teodorescu, G. Quéniat, C. Foulon, M. Lecoœur, A. Barras, S. Boulahneche, M.S. Medjram, T. Hubert, A. Abderrahmani, R. Boukherroub, S. Szunerits, *Transdermal skin patch based on reduced graphene oxide: a new approach for photothermal triggered permeation of ondansetron across porcine skin*, Journal of Controlled Release 245, (2017) 137-146, I.F.=7.786.
4. H. Maaoui, S.K. Singh, F. Teodorescu, Y. Coffinier, A. Barras, R. Chtourou, S. Kurungot, S. Szunerits, R. Boukherroub, *Copper oxide supported on three-dimensional ammonia-doped porous reduced graphene oxide prepared through electrophoretic deposition for non-enzymatic glucose sensing*, Electrochimica Acta 224, (2017) 346-354, I.F.=4.798.
5. R. Jijie, A. Barras, F. Teodorescu, R. Boukherroub, S. Szunerits, *Advancements on the molecular design of nanoantibiotics: current level of development and future challenges*, Molecular Systems Design & Engineering 2 (2017), 349-369, I.F.=3.21.
6. S. Hu, F. Jia, C. Marinescu, F. Cimpoesu, Y. Qi, Y. Tao, A. Stroppa, W. Ren, *Ferroelectric polarization of hydroxyapatite from density functional theory*, RSC Advances 7(35), (2017) 21375-21379, I.F.=3.108.
7. F. Maxim, B. Niceno, A. Testino, C. Ludwig, *The impact of sorbent geometry on the sulphur adsorption under supercritical water conditions: a numerical study*, Biomass Conversion and Biorefinery, (2017) 1-7, I.F.=1.44.
8. D. Dragoescu, F. Sirbu, A. Shchamialiou, T. Khasanshin, *Thermophysical properties of n-hexadecane + some alkylbenzenes binary mixtures at temperatures from 298.15 K to 318.15 K and atmospheric pressure*, Journal of Molecular Liquids 237, (2017) 208-215, I.F.= 3.648.
9. D. Bogdan, I. Ion, F. Sirbu, A. C. Ion, *A possible distribution of nitrogen compounds during natural mineral waters disinfection treatment*, Environmental Engineering and Management Journal 16(3), (2017) 597-603, I.F.=1.096.
10. D. Gheorghe, A. Neacșu, I. Contineanu, S. Tănăsescu, Șt. Perișanu, *A calorimetric study of L-, D- and DL- isomers of tryptophan*, Journal of Thermal Analysis and Calorimetry 130(2), (2017) 1145-1152, I.F.=2.209.
11. A. Neacsu, E. Pincu, G. Munteanu, C. Munteanu, V. Meltzer, *Characterization and comparison of the solid state inclusion compounds of α -, β - cyclodextrins and its 2-hydroxypropyl derivatives with uracil and 5-fluorouracil*, Revista de Chimie 68(12), (2017) 2756-2760, I.F.=1.232.

2016

1. S. Szunerits, F. Teodorescu, R. Boukherroub, *Electrochemically triggered release of drugs*, European Polymer Journal 83, (2016) 467-477, I.F.=3.485.
2. C. Mauriello-Jimenez, N. Knezevic, Y. Galan-Rubio, S. Szunerits, R. Boukherroub, F. Teodorescu, J.G. Croissant, O. Hocine, M. Seric, L. Raehm, V. Stojanovic, D. Aggad, M. Maynadier, M. Garcia, M. Gary-Bobo, J.-O. Durand, *Core-shell nanodiamonds-periodic mesoporous organosilica nanoparticles for two-photon imaging, photodynamic therapy and synergistic pH-responsive drug delivery*, Journal of Materials Chemistry B 4, (2016) 5803-5808, I.F.= 4.872.

3. F. Chekin, F. Teodorescu, Y. Coffinier, G.-H. Pan, A. Barras, R. Boukherroub, S. Szunerits, *MoS₂/reduced graphene oxide as active hybrid material for the electrochemical detection of folic acid in human serum*, *Biosensors and Bioelectronics* 85, (2016) 807-813, I.F.=7.476.
4. H. Belkhalifa, F. Teodorescu, G. Quéniat, Y. Coffinier, N. Dokhan, S. Sam, Amar Abderrahmani, R. Boukherroub, S. Szunerits, *Insulin impregnated reduced graphene oxide/Ni(OH)₂ thin films for electrochemical insulin release and glucose sensing*, *Sensors and Actuators B: Chemical* 237, (2016) 693-701, I.F.=4.785.
5. H. Maaoui, F. Teodorescu, Q. Wang, G.-H. Pan, A. Addad, R. Chtourou, S. Szunerits, R. Boukherroub, *Non-enzymatic glucose sensing using carbon quantum dots decorated with copper oxide nanoparticles*, *Sensors* 16, 1720, (2016) I.F.=2.677.
6. M. Teodorescu, V. T. Popa, *Solution and excess molar enthalpies for 1-butyl-3-methylimidazolium chloride + water system at (303.15 and 318.15) K*, *Revue Roumaine de Chimie* 61(6-7), (2016) 525-530, I.F.=0.25.
7. D. Dragoescu, M. Bendová, Z. Wagner, D. Gheorghe, *Volumetric, acoustic and optical properties for binary mixtures of nitroethane with chloroalkane at temperatures between 298.15 K and 318.15 K. Comparison with theories*, *Journal of Molecular Liquids* 223, (2016) 790-804, I.F.=3.648.
8. M.R. Calin, I. Radulescu, A.C. Ion, F. Sirbu, *Radiochemical Investigations on Natural Mineral Waters from Bucovina Region, Romania*, *Romanian Journal of Physics* 61(5-6), (2016) 1051-1066, I.F.=1.758.
9. I. Gheorghe, C. Stoicescu, F. Sirbu, *Partial molar volumes, isentropic compressibilities, and partial molar expansibilities of N-Methylglycine and D-Glucose in aqueous environments at temperatures between (298.15 and 323.15) K*, *Journal of Molecular Liquids* 218 (2016) 515-524, I.F.=2.740.
10. A. Neacsu, D. Gheorghe, I. Contineanu, M. Contineanu, *A thermochemical study of gamma irradiated serine stereoisomers*, *Revue Roumaine de Chimie* (2016) 61(11-12), 913-925, I.F.=0.246.
11. A. Neacsu, M. Contineanu, T. Zaharescu, I. Contineanu, *Calculation of the gamma radiation dose produced by a cylindrical radioactive source*, *Revista de Chimie* 67(9), (2016) 1745-1749, I.F.=1.232.

2015

1. A. Milea, O. Gingu, S. Preda, G. Sima, C. Nicolicescu, S. Tanasescu, *Thermodynamic measurements on Ag - 28% Cu nanopowders processed by mechanical alloying route*, *Journal of Alloys and Compounds* 629, (2015) 214-220, I.F.=3.014.
2. O. Gingu, P. Rotaru, A. Milea, A. Marin, C. Nicolicescu, G. Sima, S. Tanasescu, *In-situ synthesis of AgCu/Cu₂O nanocomposite by mechanical alloying: The effect of the processing on the thermal behavior*, *Thermochimica Acta* (2015) 606, (2015) 1-11, I.F.=1.938.
3. S. Tanasescu, A. Milea, O. Gingu, F. Maxim, C. Hornoiu, S. Preda, G. Sima, *A correlation between thermodynamic properties, thermal expansion and electrical*

- resistivity of Ag – 28% Cu nanopowders processed by mechanical alloying route*, Physical Chemistry Chemical Physics 17, (2015) 28322-28330, I.F.=4.449.
4. C. Marinescu, L. Vradman, S. Tanasescu, A. Navrotsky, *Thermochemistry of perovskites in the lanthanum–strontium– manganese–iron oxide system*, Journal of Solid State Chemistry 230, (2015) 411–417, I.F.=2.133.
 5. S. Kumari Sahu, S. Tanasescu, B. Scherrer, C. Marinescu, A. Navrotsky, *Energetics of lanthanide cobalt perovskites: LnCoO_{3-δ} (Ln = La, Nd, Sm, Gd)*, Journal of Materials Chemistry A, 2015(3), (2015) 19490-19496, I.F.= 7.433.
 6. F. Teodorescu, L. Rolland, V. Ramarao, A. Abderrahmani, D. Mandler, R. Boukherroub, S. Szunerits, *Electrochemically triggered release of human insulin from an insulin-impregnated reduced graphene oxide modified electrode*, Chemical Communications 51, (2015) 14167-14170, I.F.=6.567.
 7. F. Maxim, D. Berger, F. Teodorescu, C. Hornoiu, C. Lete, S. Tanasescu, *Low-Temperature Synthesis and Thermodynamic and Electrical Properties of Barium Titanate Nanorods*, Journal of Nanomaterials 2015, (2015), 827641-10 pag. I.F.=1.611.
 8. A. I. Iorgu, F. Maxim, C. Mateti, L. P. Ferreira, P. Ferreira, M. M. Cruz, D. Berger, *Fast synthesis of rare-earth (Pr³⁺, Sm³⁺, Eu³⁺ and Gd³⁺) doped bismuth ferrite powders with enhanced magnetic properties*, Journal of Alloys and Compounds 629 (2015) 62-68, I.F.=2.726.
 9. M. Teodorescu, *Isothermal Vapour+Liquid Equilibrium and Thermophysical Properties for 1-Butyl-3-methylimidazolium Chloride + 1-Butanol Binary System*, Revista de Chimie 66(4), (2015) 529-536, I.F.=0.677.
 10. M. Teodorescu, *Isothermal (vapour + liquid) equilibrium and thermophysical properties for (1-butyl-3-methylimidazolium iodide + 1-butanol) binary system*, The Journal of Chemical Thermodynamics 87, (2015) 58-64, I.F.=2.423.
 11. D. Dragoescu, D. Gheorghe, M. Bendová, Z. Wagner, *Speeds of sound, isentropic compressibilities and refractive indices for some binary mixtures of nitromethane with chloroalkane at temperatures from 298.15 to 318.15 K. Comparison with theories*, Fluid Phase Equilibria (2015) 385, 105-119, I.F.=1.846.
 12. D. Dragoescu, *Refractive indices and their related properties for several binary mixtures containing cyclic ketones and chloroalkanes*, Journal of Molecular Liquids 209, (2015) I.F.=2.74.
 13. R. Sartorio, C. Stoicescu, *The spinodal curve of the system water-1-butanol-1-propanol according to the wheeler - WIDOM Model*, Romanian Journal of Physics 60(7-8), (2015) 1068-1086, I.F.=0.924.
 14. I. Ion, F. Sirbu, A.C. Ion, *Thermophysical Investigations of Exfoliated Graphite Nanoplatelets and Active Carbon in Binary Aqueous Environments at Different Temperatures*, Journal of Materials Science 50(2), (2015) 587-598, I.F.=2.305.
 15. E. Radu, A.C. Ion, F. Sirbu, *Adsorption of endocrine disruptors on exfoliated graphene nanoplatelets*, Environmental Engineering and Management Journal 14(3), (2015) 551-558, I.F.=1.26.

16. A. Neacsu, I. Contineanu, M. Contineanu, D. Gheorghe, *DSC and EPR study of the effects of gamma rays upon carnosine and L-alanyl-glycine*, *Revue Roumaine de Chimie* 60(11-12), (2015) 1079-1091, I.F.=0.25.

2014

1. A.M. Sofronia, R. Baies E.M. Anghel, C.A. Marinescu, S. Tanasescu, *Thermal and structural characterization of synthetic and natural nanocrystalline hydroxyapatite*, *Materials Science and Engineering C* 43, (2014) 153-163, I.F.=3.088.
2. A. Botea-Petcu, S. Tanasescu, V. Varazashvili, N. Lejava, T. Machaladze, M. Khundadze, F. Maxim, F. Teodorescu, J. Martynczuk, Z. Yang, L. J. Gaucker, *Thermodynamic data of $Ba_{0.6}Sr_{0.4}Co_{0.8}Fe_{0.2}O_{3-d}$ SOFC cathode material*, *Materials Research Bulletin* 57, (2014) 184-189, I.F.=1.968.
3. F. Maxim, I. Poenaru, F. Teodorescu, S. Tanasescu, *Barium titanate torus-like particles: low temperature synthesis and formation mechanism*, *European Journal of Inorganic Chemistry* 30, (2014) 5160-5167, I.F.=2.965.
4. M. Teodorescu, B. Marongiu, S. Maxia, A. Piras, M. Usula, S. Porcedda, *Calorimetric study of the selected nitroalkane + chloroalkane binary systems. Comparison with DISQUAC predictions*, *Journal of Thermal Analysis and Calorimetry*, 116, (2014) 119-127, I.F.= 2.206.
5. M. Teodorescu, *Isothermal Vapor+Liquid Equilibrium and Thermophysical Properties for 1-Butyl-3-methylimidazolium Bromide + 1-Butanol Binary System*, *Industrial & Engineering Chemistry Research* 53, (2014) 13522-13528, I.F.=2.235.
6. D. Dragoescu, *Volumetric and optical properties for some (2-butanone + chloroalkane) binary mixtures at $T = 298.15$ K*, *The Journal of Chemical Thermodynamics* 75, (2014) 13–19, I.F.=2.423.
7. D. Gheorghe, A. Neacșu, I. Contineanu, F. Teodorescu, S. Tănăsescu, *Thermochemical properties of L-alanine nitrate and L-alanine ethyl ester nitrate*, *Journal of Thermal Analysis and Calorimetry* 118, (2014) 731-737, I.F.=2.042.
8. A. Neacsu, D. Gheorghe, I. Contineanu, S. Tanasescu, S. Perisanu, *A thermochemical study of serine stereoisomers*, *Thermochimica Acta*, 595, (2014) 1-5, I.F.=2.184.
9. A. Neacsu, M. Contineanu, I. Contineanu, A. Stanciu, *Study on the radical species formed by gamma radiolysis of alpha aminobutyric acid (alpha AMB)*, *Revista de Chimie* 65(3), (2014) 306-310, I.F.=0.538.

2013

1. S. Tanasescu, Z. Yáng, J. Martynczuk, V. Varazashvili, F. Maxim, F. Teodorescu, A. Botea, N. Totir, L. J. Gauckler, *Effects of A-site composition and oxygen nonstoichiometry on the thermodynamic stability of compounds in the Ba-Sr-Co-Fe-O system*, *Journal of Solid State Chemistry* 200, (2013) 354-362, I.F.=2.2.
2. F. Maxim, I. Poenaru, S. Tanasescu, *Nanoparticles morphology effect on titanium dioxide phase transformation*, *Revista de Chimie* 64(10), (2013) 1135-1138, I.F.=0.538;

3. D. Gheorghe, D. Dragoescu, M. Teodorescu, *Volumetric study for the binary nitromethane with chloroalkanes mixtures at Temperatures in the Range (298.15-318.15) K*, Journal of Chemical and Engineering Data 58, (2013)1161-1167, I.F.=2.045.
4. M. Teodorescu, C. Secuianu, *Refractive Indexes and Their Deviations Measurement and Correlation for Selected Binary Systems of Various Polarities at 25 °C*, Journal of Solution Chemistry 42(10), (2013) 1912-1934, I.F.=1.128.
5. M. Teodorescu, D. Dragoescu, D. Gheorghe, *Isothermal (vapour+liquid) equilibria for (nitromethane or nitroethane + 1,4- dichlorobutane) binary systems at temperatures between (343.15 - 363.15) K*, The Journal of Chemical Thermodynamics 56, (2013) 32-37, I.F.=2.422.
6. D. Dragoescu, M. Teodorescu, D. Gheorghe, *Isothermal vapour-liquid equilibria and excess Gibbs free energies in some binary nitroalkane + chloroalkane mixtures at temperatures from 298.15 K to 318.15 K*, Fluid Phase Equilibria 338, (2013) 16-22, I.F.=2.139.
7. I. Ion, F. Sirbu, A.C. Ion, *Density, Refractive Index, and Ultrasound Speed in Mixtures of Active Carbon and Exfoliated Graphite Nanoplatelets Dispersed in N,N-Dimethylformamide at Temperatures from (293.15 to 318.15) K*, Journal of Chemical & Engineering Data 58 (5), (2013) 1212-1222, I.F.=2.045.
8. I. Contineanu, A. Neacsu, D. Gheorghe, S. Tanasescu, S. Perisanu, *The thermochemistry of threonine stereoisomers*, Thermochimica Acta 563, (2013) 1-5, I.F.= 2.105.
9. M. Contineanu, A. Neacsu, I. Contineanu, S. Perisanu, *The effects of gamma rays upon monohydrated and anhydrous asparagine. A DSC study in sealed pans*, Journal of Radioanalytical and Nuclear Chemistry 295(1), (2013) 379-384, I.F.= 1.520.
10. S. Perisanu, I. Contineanu, A. Neacsu, N. Rath, J. Chickos, R. Notario, J. Liebman, *Thermochemical and structural study of a dibenzocycloheptane cyanoenamine*, Structural Chemistry 24 (2013) 1975-1980, I.F.=1.722.
11. R. Sandu, C. Tablet, M. Hillebrand, *Phenoxathiinsulphone derivatives–cyclodextrin interactions: induced chirality and TDDFT calculations*, Journal of Inclusion Phenomena and Macrocyclic Chemistry 77(1-4), (2013) 183-193, I.F.=1.426.
12. A.D. Neacsu, A. Neacsu, I. Contineanu, G. Munteanu, S. Tanasescu, *Solid state study of the inclusion compounds of alpha-, beta- cyclodextrin with d-, l-tryptophan isomers*, Revue Roumaine de Chimie 58(11-12), (2013) 863-870, I.F.=0.4.

2012

1. I. Contineanu, A. Neacsu, R. Zgirian, S. Tanasescu, S. Perisanu, *The standard enthalpies of formation of proline stereoisomers*, Thermochimica Acta 537, (2012), 31-35, I.F.=1.899.
2. C. Stan, C. P. Cristescu, D. A. Neacsu, *Using chaos game representation for similarity studies on albumin amino acids sequences*, Revue Roumaine de Chimie 57(1) (2012) 45-48, I.F.=0.30.

3. R. Sandu, M. Hillebrand, *Binding affinity of the 3-carboxy-5, 6-benzocoumarinic acid to human serum albumin: an isothermal titration calorimetry study*, *Revue Roumaine de Chimie* 57(4-5), (2012), 421-426, I.F.=0.311.

2011

1. S. Tanasescu, C. Marinescu, F. Maxim, A. Sofronia, N. Totir, *Evaluation of manganese and oxygen content in $La_{0.7}Sr_{0.3}MnO_{3-\delta}$ and correlation with the thermodynamic data*, *Journal Solid State Electrochemistry* 15 (2011) 189-196, I.F.=2.234.
2. B. Scherrer, A. S. Harvey, S. Tanasescu, F. Teodorescu, A. Botea, K. Conder, A. N.Grundy, J.Martynczuk, L.J. Gauckler, *Correlation between electrical properties and thermodynamic stability of $ACoO_{3-\delta}$ perovskites ($A = La, Pr, Nd, Sm, Gd$)*, *Physical Review B* 84, (2011) 085113. I.F.=3.772.
3. O Gingu, G Benga, A Olei, N Lupu, P Rotaru, S Tanasescu, M Mangra, *Wear behaviour of ceramic biocomposites based on hydroxiapatite nanopowders*, *J. of Process Mechanical Engineering* 225, (2011) 62-71. I.F.=0.520.
4. C. Marinescu, A. Sofronia, C. Rusti, R. Piticescu, V. Badilita, E. Vasile, R. Baies, S. Tanasescu, *DSC investigation of nanocrystalline TiO_2 powder*, *Journal of Thermal Analysis Calorimetry* 103, (2011) 49-57, I.F.=1.694.
5. F. Maxim, P.M. Vilarinho, P. Ferreira, I. Reany, I. Levin, *Kinetic Study of the Static Hydrothermal Synthesis of $BaTiO_3$ using Titanate Nanotubes Precursors*, *Crystal Growth and Design* 11, (2011) 3358-3365, I.F.=4.720.
6. F. Maxim, P.Ferreira, P.M. Vilarinho, *Influence of the neutralization process on the preparation of titanate nanotubes by hydrothermal synthesis*, *Journal of Porous Materials* 18, (2011) 37-45, I.F.=1.370.
7. F. Sirbu, O. Iulian, A. C. Ion, I. Ion, *Activity Coefficients of Electrolytes in the $NaCl + Na_2SO_4 + H_2O$ Ternary System from Potential Difference Measurements at (298.15, 303.15, and 308.15) K*, *Journal of Chemical and Engineering Data* 56(12), (2011), 4935-4943, I.F.=2.089.
8. R. Sandu, M. Hillebrand, *Circular dichroism characterization of the inclusion complexes of 2-acetyl-phenoxathiin sulphone with cyclodextrines: experimental data and TDDFT calculations*, *Revue Roumaine de Chimie* 56, (2011) 363-371, I.F.=0.311.
9. M. Contineanu, I. Contineanu, A. Neacșu, Ș. Perișanu *Kinetics and mechanism of the thermal disappearance of the radicals formed during the radiolysis of sodium seleniate*, *Revue Roumaine de Chimie* 56, (2), (2011) 97-105, I.F.=0.208.
10. Ș. Perisanu, I. Contineanu, A. Neacsu, R. Notario, M. V. Roux, J. F. Liebman, B. J. Dodson, *Thermochemistry and quantum chemical calculations of two dibenzocycloalkane nitriles*, *Structural Chemistry* 22(1), (2011) 89-94, I.F.=1.727.
11. M. Contineanu, I. Contineanu, A. Neacșu, *Thermal annealing kinetics of radicals formed by the radiolysis in polycrystalline solid state of arginine*, *Analele Universitatii Bucuresti* 20(1), (2011) 65-73.

12. M. Contineanu, I. Contineanu, A. Neacșu, A. E. Stanciu, *EPR study of paramagnetic centers in gamma irradiated polycrystalline ammonium paramolybdate (APMo) and ammonium parawolframate (APW)*, *Revue Roumaine de Chimie* 56(12), (2011) 1155-1162, I.F.=0.208.
13. C. Stoicescu, O. Iulian, R. Isopescu, *Liquid – Liquid Phase Equilibria of 1-Propanol + Water + n-Alcohol Ternary Systems at 298.15 K and at the Atmospheric Pressure*, *Journal of Chemical and Engineering Data* 56 (7), (2011) 3214-3221, I.F.=2.089.
14. C. Stoicescu, O. Iulian, R. Isopescu, *Liquid – liquid phase equilibria of (1-propanol + water + nalcohol) ternary systems at 294.15 K. I. 1-propanol + water + 1-butanol or 1-pentanol or hexanol*, *Revue Roumanie de Chimie* 56(5), (2011) 553-560. I.F.=0.311.
15. C. Stoicescu, O. Iulian, R. Isopescu, *Liquid – liquid phase equilibria of (1-propanol + water + nalcohol) ternary systems at 294.15 K. II. 1-propanol + water +1-heptanol or 1-octanol or 1-nonanol or 1-decanol*, *Revue Roumanie de Chimie* 56(5), (2011) 561-569, I.F.=0.311.
16. D. Dragoescu, A. Barhala, M. Teodorescu, D. Chiscan, *Isothermal vapour-liquid equilibria in cyclohexanone + dichloroalkane binary mixtures at temperatures from 298.15 to 318.15 K*, *Journal of the Serbian Chemical Society* 76(2), (2011) 305-315, I.F.=0.820.
17. D. Dragoescu, A. Barhala and M. Teodorescu, *Vapour-liquid equilibria for the binary mixtures of methyl ethyl ketone(2-butanone)+ some chloroalkanes at temperatures from 298.15 to 318.15 K. Comparison with disquac model prediction*, *Revue Roumaine de Chimie* 56(5), (2011) 487-500 (volum comemorativ Dr. Henry V. Kehiaian), I.F.=0.311.
18. M. Teodorescu, A. Barhala, D. Dragoescu, D. Gheorghe, *Isothermal Vapor-Liquid Equilibria for Nitromethane and Nitroethane + 1,3-Dichloropropane Binary Systems at Temperatures between (343.15 - 363.15) K*, *Journal of Chemical and Engineering Data* 56, (2011) 4665-4671, I.F.=2.089.

2010

1. M. Teodorescu, A. Barhala, D. Dragoescu, *Isothermal vapour-liquid equilibria for 1, 2- dichloroethane + nitromethane and + nitroethane binary systems at temperatures between 333.15 -353.15 K*, *Fluid Phase Equilibria* 292, (2010) 58-63, I.F.=1.699.
2. O. Ciocirlan, M. Teodorescu, D. Dragoescu, O. Iulian, A. Barhala, *Densities and excess molar volumes of the binary mixtures of cyclohexanone with chloroalkanes at temperatures between (288.15 and 318.15) K*, *Journal of Chemical and Engineering Data* 55, (2010) 968-973, I.F.=2.063.
3. O. Ciocirlan, M. Teodorescu, D. Dragoescu, O. Iulian, A. Barhala, *Densities and Excess Molar Volumes of the Binary Mixtures of Cyclopentanone with Chloroalkanes at Temperatures between (288.15 and 318.15) K*, *Journal of Chemical and Engineering Data* 55, (2010) 3891-3895, I.F.=2.063.

4. M. Contineanu, I. Contineanu, A. Neacșu, Ș. Perişanu *A DSC study on gamma irradiated isomers of the aspartic acid*, *Revista de Chimie* 61(8), (2010) 774-777, I.F.=0.287.
5. M. Contineanu, I. Contineanu, A. Neacșu, Ș. Perişanu, *The effect of gamma rays upon monohydrated asparagine. A DSC study*, *Radiation Physics and Chemistry* 79(10), (2010) 1047-1051, I.F.=1.149.
6. I. Contineanu, A. Neacșu, Ș. Perişanu, *The standard enthalpies of formation of L-asparagine and L-glutamine*, *Thermochimica Acta*, 497, (2010) 96-100, I.F.=1.659.
7. I. Contineanu, A. Neacsu, St. Perisanu, S. Tanasescu, *The Calorimetric Study of some Guanidine Derivatives Involved in Living Bodies Nitrogen Metabolism*, *Journal of Thermal Analysis and Calorimetry* 101, (2010) 1127-1133, I.F.=1.75.
8. M. Contineanu, A. E. Stanciu, A. Neacsu, *Thermal annealing kinetics of radicals formed by the radiolysis in polycrystalline solid state of sodium wolframate*, *Revue Roumaine de Chimie* 55(8), (2010) 467-474, I.F.=0.208.
9. F. Sirbu, O. Iulian, *Activity coefficients from cell potential measurements in the NaCl + Glycine+ water ternary system at (298.2, 308.2, and 318.2) K*, *Journal of Chemical & Engineering Data* 55(9), (2010) 3853–3858, I.F.=2.089.
10. F. Sirbu, O. Iulian, *The mixing effect of glycine with sodium chloride from activity coefficients investigations at T= (303.15 and 313.15) K*, *Journal of Optoelectronics and Advanced Materials* 12(5), (2010) 1200-1205, I.F.=0.43.
11. O. Gingu, G. Benga, A. Olei, N. Lupu, P. Rotaru, S. Tanasescu, M. Mangra, I. Ciupitu, I. Pascu, G. Sima, *Wear behaviour of ceramic biocomposites based on hydroxiapatite nanopowders*, *Journal of Process Mechanical Engineering*, 225(1), (2011) 62-71, I.F.=0.463.
12. P. Ferreira, P.M. Vilarinho, A. Aimable, P. Bowen, F. Maxim, *Additive-Assisted Aqueous Synthesis of BaTiO₃ Nanopowders*, *Crystal Growth and Design* 10, (2010) 3996-4004, I.F.=4.389.

2009

1. S. Tanasescu, M. N. Grecu, C. Marinescu, L. M. Giurgiu, H. Chiriac, M. Urse, *Effects of dopants and oxygen nonstoichiometry on the thermodynamic, magnetic and electrical properties of micro and nanostructured perovskite-type materials*, *Advances in Applied Ceramics* 108(5), (2009), 273-279. I.F.=0.726.
2. S. Tanasescu, C. Marinescu, A. Sofronia, A. Ianculescu, L. Mitoseriu, *High temperature thermodynamic data of some multiferroic ceramics based on BiFeO₃ – BaTiO₃ solid solutions*, *Journal of Optoelectronics and Advanced Materials* 11, (2009) 1196 -1201, I.F.=0.827.
3. D. Dragoescu, A. Barhala, M. Teodorescu, *(Vapour + liquid) equilibria and excess Gibbs energies of (cyclohexanone + 1-chlorobutane and + 1,1,1-trichloroethane) binary mixtures at temperatures from (298.15 K to 318.15) K*, *The Journal of Chemical Thermodynamics* 41, (2009) 1025-1029, I.F.=1.876.

2008

1. S. Tanasescu, F. Maxim, F. Teodorescu, L. Giurgiu, *The Influence of Composition and Particle Size on Spin Dynamics and Thermodynamic Properties of some Magnetoresistive Perovskites*, Journal of Nanoscience and Nanotechnology, 8 (2008) 914-923, I.F.=1.99.
2. V. Parvulescu, S. Somacescu, P. Osiceanu, S. Tanasescu, B-L. Su, *Mezoporous TiO₂-Y₂O₃-ZrO₂ oxides with crystalline framework obtained by surfactant template synthesis*, Studies in surface science and catalysis 174A, (2008) 309-312, I.F.=0.4.
3. F. Maxim, P. Ferreira, P. M. Vilarinho, I. Reaney, *Hydrothermal Synthesis and Crystal Growth Studies of BaTiO₃ Using Ti Nanotube Precursors*, Crystal Growth & Design 8, (2008) 3309–3315, I.F.=4.339.
4. A. Barhala, D. Dragoescu, M. Teodorescu, *Vapour-liquid equilibria and excess thermodynamic properties in binary systems of cyclopentanone + chloroalkanes in view of the DISQUAC and UNIFAC group contribution models extension*, Revista de Chimie 59, (2008) 531-539, I.F.=0.389.
5. D. Dragoescu, A. Barhala, M. Teodorescu, *Vapour pressure and excess Gibbs energy of binary 1,2-dichloroethane + cyclohexanone, chloroform + cyclopentanone and chloroform + cyclohexanone mixtures at temperatures from 298.15 to 318.15 K*, Fluid Phase Equilibria 267, (2008) 70-78, I.F.=1.699.
6. O. Fandino, E. R. Lopez, L. Lugo, M. Teodorescu, A. M. Mainar, J. Fernandez, *Solubility of carbon dioxide in two pentaerythritol ester oils between 283 and 333 K*, Journal of Chemical Engineering and Data 53, (2008) 1854-1861, I.F.=2.063.
7. M. Contineanu, I. Contineanu, A. Neacsu, S. Perisanu, *Kinetics of thermal disappearance of radicals formed during the radiolysis of aspartic acid*, Revista de Chimie 59, (2008) 1382-1386, I.F.=0.389.
8. A. Neacsu, I. Contineanu, V. T. Popa, M. Contineanu, *Dehydration of irradiated and nonirradiated L-a-asparagine monohydrate. I. Isothermal kinetics*, Journal of Thermal Analytical Calorimetry 94, (2008) 405-410, I.F.=1.438.
9. O. Iulian, F. Sirbu, C. Stoicescu, *Density and apparent molar volume prediction in some ternary electrolyte solutions*, Revue Roumaine de Chimie 53, (2008) 1125-1129, I.F.=0.284.
10. C. Stoicescu, O. Iulian, F. Sirbu, *Liquid + liquid equilibrium data for the ternary mixtures of 1-propanol + water with 1-butanol, 1-hexanol, 1-octanol, or 1-decanol at 294.15 K*, Revue Roumaine de Chimie, 53 (2008) 1117–1123, I.F.=0.284.
11. C. Stoicescu, O. Iulian, F. Sirbu, *Equilibrium experimental data in ternary system containing water + 1-propanol+ 1-butanol, 1-pentanol or 1-hexanol*, Revue Roumaine de Chimie 53 (2008), 363-367, I.F.=0.284.

2007

1. D. Dragoescu, M. Teodorescu, A. Barhala, *Isothermal (vapour + liquid) equilibria and excess Gibbs free energies in some binary (cyclopentanone + chloroalkane) mixtures at temperatures from 298.15 K to 318.15 K*, The Journal of Chemical Thermodynamics, 39, (2007) 1452-1457, I.F.=1.842.

2. M. Contineanu, A. Neacsu, I. Contineanu, *Kinetics of the thermal disappearance of the radicals formed upon irradiation of γ -aminobutyric acid (γ AMB)*, Revista de Chimie 58 (2007) 899-903, I.F.=0.287.
3. M. Contineanu, A. Neacsu, *The study of the radical species formed upon irradiation in the polycrystalline solid state of sodium molybdate*, Revista de Chimie 58 (2007), 1203-1206, I.F.=0.287.
4. F. Sirbu, O. Iulian, C. Stoicescu, *Predictive Calculation of Density and Apparent Molar Volume in Mixed Electrolyte Systems $H_2O - NaCl - KCl$ si $H_2O - KCl - CaCl_2$* , Revista de Chimie 58, (2007) 729-732, I.F.=0.261.

2006

1. S. Tanasescu, C. Marinescu, F. Maxim, O. Raita, M.N. Grecu, L. Giurgiu, *Thermodynamic properties and spin dynamics of some micro and nanostructured magnetoresistive lanthanum manganites*, Journal of the European Ceramic Society 26, (2006) 3005-3010, I.F.=1.576;
2. V. Pralong, V. Caignaert, S. Hébert, C. Marinescu, B. Raveau, A. Maignan, *Electrochemical oxidation and reduction of the $La_{0.2}Sr_{0.8}CoO_{3-\delta}$ phases: Control of itinerant ferromagnetism and magnetoresistance*, Solid State Ionics 177, (2006) 815-820, I.F.=2.19.
3. A.V. Kovalevsky, F. M. B. Marques, V.V. Kharton, F. Maxim, and J.R. Frade, *Silica-scavenging effect in zirconia electrolytes: assessment of lanthanum silicate formation*, Ionics 12, (2006) 179-184, I.F.=0.369.
4. A.V. Kovalevsky, V.V. Kharton, F. Maxim, A.L. Shaula and J.R. Frade, *Processing and Characterization of ferrite-based asymmetric membranes*, The Journal of Membrane Science 278, (2006) 162-172, I.F.=3.442.
5. M. Teodorescu, A. Barhala, D. Dragoescu, *Isothermal (vapour-liquid) equilibria for the binary (cyclopentanone or cyclohexanone with 1,1,2,2-tetrachloroethane) systems at temperatures of (343.15, 353.15 and 363.15) K*, The Journal of Chemical Thermodynamics 38, (2006) 1432-1437, I.F.=1.842.
6. Barhala, M. Teodorescu, D. Dragoescu, *Structural effects and intermolecular interactions in homologous series of organic systems evidenced by thermodynamic properties in the frame of DISQUAC model*, Revue Roumaine de Chimie 51, (2006) 329-344, I.F.=0.208.
7. A. Barhala, D. Dragoescu, M. Teodorescu, I. Wichterle, *Isothermal (vapour + liquid) equilibria in the binary mixtures (1,2-dichloroethane and 1,1,1-trichloroethane with cyclopentanone) within the temperature range (298.15 to 313.15) K*, The Journal of Chemical Thermodynamics 38, (2006) 617-623, I.F.=1.842.
8. S. Perisanu, I. Contineanu, M. D. Banciu, H. Zhao, N. Rath, J. Chickos, *The structure and thermochemistry of 3:4,5:6-dibenzo-2-hydroxymethylene-cyclohepta-3,5-dienone(1) and some related compounds*, Structure Chemistry 17, (2006) 639-648, I.F.=1.510.

9. M. Contineanu, F. Zalaru, I. Contineanu, *The study of radical species formed by radiolysis in polycrystalline solide state of crome oxides*, Revista de Chimie 57 (2006) 347-356, I.F.=0.287.
10. M. Contineanu, Ana Neacsu, *Radical species formed by gamma radiolysis of polycrystalline telluric acid*, Revue Roumaine de Chimie 51, (2006) 1069, I.F. = 0.208
11. M. Contineanu, A. Neacsu, *Radiolysis of lead chromate dopped with chrome oxide*, Revista de Chimie 57, (2006) 115, I.F.=0.287.
12. I. Contineanu, S. Perisanu, A. Neacsu, *The enthalpies of combustion and formation of the isomers of amino-benzoic acid*, Revue Roumaine de Chimie 51 (2006) 323-327, I.F.=0.208.
13. O. Iulian, C. Stoicescu, O. Ciocirlan, *Properties of the binary and ternary mixtures containing water, 1, 4-dioxane and ethylene glycol. Viscosity correlations*, Revue Roumaine de Chimie 51, (2006) 811-817, I.F.=0.208.

2005

1. S. Tanasescu, A. Orasanu, D. Berger, I. Jitaru, J. Schoonman, *Electrical Conductivity and Thermodynamic Properties of Some Alkaline-Earth Doped Lanthanum Chromites*, International Journal of Thermophysics 26, (2005) 543-557, I.F.=0.846.
2. S. Tanasescu, C. Marinescu, F. Maxim, N. Totir, *Effects of the oxygen nonstoichiometry and Mn valence conversion on the thermodynamic properties of $LaMnO_{3\pm\delta}$ perovskite-type compounds*, Revue Roumaine de Chimie 50, (2005) 951-959, I.F.=0.226.
3. S. Perisanu, D. Banciu, I. Contineanu, L. Chivu, A. Neacsu, *A DSC study of some dibenzocycloheptanic alcohols*, Revista de Chimie 56, (2005) 813-816, I.F.=0.278.
4. M. Contineanu, I. Contineanu, *Characterization by RPE of the radical species formed upon irradiation of sodium selenate*, Revista de Chimie 56, (2005) 601, I.F.=0.278.
5. Contineanu, L. Chivu, C. Telea and S. Perisanu, *The enthalpies of combustion and formation of L- α -glutamic and 6-amino-hexanoic acids*, Journal of Thermal Analytical Calorimetry 82, (2005) 3-6, I.F.=1.478.
6. Contineanu, L. Chivu, S. Perisanu, *The enthalpy of formation of 2-keto-glutaric acid*, Revista de Chimie 56, (2005) 720-724, I.F.=0.278.
7. Iulian, F Sirbu, *Prediction of the volumetric properties for aqueous NaCl-KBr and NaCl-CaCl₂ mixtures*, Revue Roumaine de Chimie 50, (2005) 1027-1034, I.F.=0.226.

SCIENTIFIC PAPERS IN Non-ISI JOURNALS

1. F. Sirbu, D. Dragoescu, A. Stefaniu, *Propriétés optiques du système binaire de polyvinylpyrrolidone en diméthylformamide/diméthylacétamide à différentes temperatures*. (3 pagini), 2 Symposium de la Recherche Scientifique Francophone en Europe centrale et orientale, 27 - 28 noiembrie 2023, București, România, www.srsf-eco-2023.auf.org
2. Ș.-C. Marin, M.V. Hovaneț, R.V. Ancuceanu, M. Dinu, C.S. Stoicescu, A.-I. Anghel *Microscopic analysis and the histochemical staining of three species from*

- Asparagaceae* family: *Hosta plantaginea* (Lam.) Asch., *Ornithogalum umbellatum* L. and *Ornithogalum dubium* Houtt., Macedonian Pharmaceutical Bulletin, 68 (Suppl 2) (2022), Short communication.
3. V. Chihaiia, D.A. Neacsu, V. Alexiev, D. Angelescu, *Performances of the Bond Order Interacting Potentials on Calculating the Surface Energies of Mg₂ Facets*. (2022), Available at SSRN Electronic Journal: <https://ssrn.com/abstract=4282784>
 4. A. Neacsu, D. Gheorghe, *Comparative EPR study of the radical species formed during the radiolysis in polycrystalline solid state of monohydrated (L-ASN•H₂O) and deuterated asparagine (L-ASN•D₂O)*, Pharmacy & Pharmacology International Journal 10(3), (2022) 106-113, DOI: 10.15406/ppij.2022.10.00371
 5. A.-I. Perdum, A. Banu, R. Trusca, C. Marinescu, *Hollow glass microspheres treated with silane coupling agent*, Scientific Bulletin-University Politehnica of Bucharest, Series B, 84(4) (2022) ISSN 1454-2331.
 6. A. Neacsu, A.E. Stanciu, M. Contineanu, D. Gheorghe, *Effect of gamma irradiation on NaVO₃ in polycrystalline solid state*, Chemical Reports 2(1), (2020) 124-131.
 7. S. Perisanu, D. Gheorghe, A. Neacsu, *The enthalpy of formation of L-alpha-amino acids, Insights in Chemistry and Biochemistry* 1, (2020) 1-5.
 8. A. Neacsu, D. Gheorghe, *Kinetics of the thermal disappearance of radicals formed during the radiolysis of L-anhydrous asparagine*, Chemical Reports 1(1), (2019) 13-21.
 9. C. Popovici, V.R. Ancuceanu, T.O. Oлару, C-S. Stoicescu, M. Dinu, *Toxicity assessment of Nephrolepis exaltata (L.) Schott, fam. Nephrolepidaceae*, Acta Biologica Marisiensis 1(1), (2018) 26-35.
 10. O. Gingu, G. Sima, C. Teisanu, C. Marinescu, A. Sofronia, S. Tanasescu, P. Rotaru, *The Foaming Window – A New Concept and Mechanism for Biocomposite Foams Processing by Two-Step Sintering*, Journal of Advanced Thermal Science Research 4, (2017) 13-19.
 11. S. Tanasescu, *Dumitru I. Marchidan (1930-2013)*, Revista de Politica Stiintei si Scientometrie 4, (2015) 3.
 12. M. Contineanu, I. Contineanu, A. Neacsu, *Thermal annealing kinetics of radicals formed by the radiolysis in polycrystalline solid state of arginine*, Analele Universitatii Bucuresti, 20(1), (2011) 65-73.
 13. I. Contineanu, M. Contineanu, A. Neacsu, S. Perisanu, *A DSC study of gamma aminobutyric acid gamma irradiated*, Analele Universitatii Bucuresti, Chimie, 19(1), (2010) 79-86.
 14. M. Contineanu, S. Perisanu, A. Neacsu, *Calculation of the dose rate in an external point of a cylindrical gamma radioactive source*, Analele Universitatii Bucuresti, Chimie, 19(1), (2010) 69-77.
 15. M. Contineanu, I. Contineanu, A. Neacsu, *Kinetics of the thermal disappearance of radicals formed during the radiolysis of sodium tellurate*, Analele Universitatii Bucuresti, Chimie 19(2), (2010) 83-91.
 16. M. Contineanu, A.E. Stanciu, I. Contineanu, A. Neacsu, *Thermal disappearance kinetics of radicals formed during radiolysis in polycrystalline solid state of sodium wolframate dihydrate*, Southern Brazilian Journal of Chemistry 18(18), (2010) 49-64.

17. F. Maxim, P.Ferreira, P.M. Vilarinho, I. Reaney, A. Aimable, P. Bowen, *Solution based approaches for the morphology control of BaTiO₃ particulates*, Processing and Application of Ceramics 4(3), (2010) 115-125.
18. I. Contineanu, M. Contineanu, A. Neacsu, S. Perisanu, *A DSC study of alpha aminobutyric acid gamma irradiated*, University of Bucharest Annals, Chemistry 1, (2009) 65-73.
19. M. Contineanu, A. Neacsu, S. Perisanu and I. Contineanu, *Kinetics and mechanism of the disappearance of radicals formed during the radiolysis of polyacrilamide*, University of Bucharest Annals, Chemistry 1, (2009) 73-83.
20. M. Contineanu, C. Bercu, I. Contineanu, A. Neacsu, *A chemical and photochemical study of radicalic species formed in methylene blue acidic and basic aqueous solutions*, University of Bucharest Annals, Chemistry 18, (2009) 29-37.
21. S. Tanasescu, C. Marinescu, F. Teodorescu, A. Sofronia, *The Control of the Energetic Parameters: Important Step in Understanding the Stability and Reactivity of Micro and Nanostructured Materials*, World Journal of Engineering 5, (2008) 738.
22. F. Sirbu, O. Iulian, O. Ciocirlan, C. Stoicescu, *Predictive and correlative methods for activity of aqueous mixed electrolyte systems. Applications to some practical systems*, "Ovidius" University Annals of Chemistry, Constanta, XVI/2 (2005) 253-256.

SCIENTIFIC PAPERS IN REVIEWED PROCEEDINGS

1. D. Drăgoescu, F. Sîrbu, A. Shchamialiou, *Study of volumetric and acoustic properties for binary mixtures of cyclohexane and aromatic hydrocarbons, in the range of normal temperatures and pressures*, The XIVth International Scientific and Technical Conference «Equipment and technology of food manufactures», 21-22 April 2022, Mogilev, Belarus. Conference Proceedings ISBN 978-985-7281-27-5, UDC 23780.1, vol.2, pag. 81– 83.
2. F. Sirbu, D. Dragoescu, A. Stefaniu, *Density, Speed of Sound, and Refractive Index of Polyvinylpyrrolidone-K60 + N,N-Dimethylformamide/ Dimethylacetamide Binary Mixtures at Different Temperatures*, The 26th International Electronic Conference on Synthetic Organic Chemistry (ECSOC-26), 15-30 November 2022- Online, Santiago de Compostela, Spain. Chemistry Proceedings ISBN 978-3-0365-3286-8, 2022, vol. 4, x-xx. <https://doi.org/10.3390/xxxxx>.
3. D.A. Neacsu, V. Chihaia, V. Alexiev, D.G. Angelescu, *Surface energies for the alpha polymorph of the magnesium hydride*, in Alternative Energy Sources, Materials & Technologies (AESMT'22), Volume 4, (pp. 77-78) 2022, Proceedings of short papers, Volume 4, Edited by A. Georgiev, Publishing House: „Imeon“ Sole-owner, 2022, ISSN 2603-364X.
4. S. Tanasescu, *Particle size versus energetics of nanomaterials: Key parameters controlling the stability and reactivity of nanostructured materials*, Proceedings of 11th International Conference on Advanced Materials& Processing, 7-8 September 2017, Edinburgh, Scotland, Res. &Rev.: J Mat. Sci. 5:5 (2017), DOI: 10.4172/2321-6212-C1-005, ConferenceSeries.com, ISSN: 2321-6212.

5. C. Marinescu, A. Sofronia, D. Constantin, S. Tanasescu, *Structural, morphological and high temperature characterization of the biocompatible hydroxyapatite-titania composite*, Proceedings of the 4th International Conference and Exhibition on Materials Science & Engineering, Florida, USA September 14-16, 2015, J Mat. Sky. Eng, 2016, 4/5, 143, ISSN: 2169-0022.
6. S. Tanasescu, Z. Yáng, J. Martynczuk, F. Teodorescu, A. Botea, N. Totir, L.J. Gauckler, *Effects of composition and oxygen nonstoichiometry on the thermodynamic stability of perovskite-type oxides in the Ba-Sr-Co-Fe-O system*, Proceedings of EFC2011 European Fuel Cell - Piero Lunghi Conference & Exhibition, December 14-16, 2011, Rome, Italy.
7. C. Marinescu, A. Sofronia, A. Botea Petcu, C. Rusti, R. Piticescu, S. Tanasescu, *High temperature thermochemical behavior and heat capacity of TiO₂ nanopowders*, Proc. Congress on Calorimetry, Thermal Analysis and Applied Thermodynamics, 34-37, 2010.
8. O. Ciocirlan, M. Teodorescu, D. Dragoescu, O. Iulian, A. Barhala, *Measurement and theoretical analysis of excess molar volumes of binary mixtures of some chloroalkanes + cyclic ketones between (288.15-318.15) K*, Proceedings of the 16th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 16, September 9-12, 2009, Sinaia, Romania, CDRom, Ed. Printech, ISBN 978-606-521-349-4, SIII p. 22-29.
9. O. Iulian, F. Sirbu, *Thermodynamic study of the mixed (NaCl+Glycine+Water) system based on e.m.f. measurements*, Proceedings RICCCCE XVI - Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 16, 9-12 septembrie 2009, Sinaia, Romania, Ed. Printech, ISBN 978-606-521-349-4, S3, p. 78-84;
10. C. Stoicescu, R. Isopescu, O. Iulian, *(Liquid + liquid) equilibrium data for the ternary mixtures of 1-propanol + water +n-alcohol at 298.15 K*, Proceedings of the 16th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 16, September 9-12, 2009, Sinaia, Romania, Ed. Printech, ISBN 978-606-521-349-4, S3.P-22, p. 85-92.
11. C. Marinescu, F. Teodorescu, S. Tanasescu, *Comparative thermodynamic study of some doped micro- and nano- structured lanthanum manganites*, Proceedings of the EMCC5 Conf. (5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries), Cetraro, Italy, May 24-29, 2008, p. 197-200.
12. F. Teodorescu, C. Marinescu, A. Sofronia, S. Tanasescu, *The influence of the nonstoichiometry on the thermodynamic properties of lanthanum doped manganites*, Proceedings of the EMCC5 Conf. (5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries), Cetraro, Italy, May 24-29, 2008, p. 201-204.
13. S. Tanasescu, *Thermodynamics of some micro- and nanostructured conducting transition metal oxides*, Proceedings of the International Conference on Materials Science and Engineering, BRAMAT 2007, Brasov, Romania, Full text on CD-ROM, p. 47-54.
14. S. Tanasescu, C. Marinescu, F. Teodorescu, *The control of the energetic parameters: important step in understanding the stability and reactivity of the micro and*

- nanostructured materials*, Preprint of the International Conference on Nanomedicine, September 9-11, 2007, Halkidiki, Greece, p. 232-233.
15. A. Barhala, D. Dragoescu, M. Teodorescu, I. Wichterle, *Vapor- liquid equilibria and excess Gibbs energies of cyclopentanone + chloroalkane binary mixtures*, Proceedings of the 14th Romanian International Conference on Chemistry and Chemical Engineering, RICCCE 14, September 22-24, 2005, Bucuresti, vol.2, p. 25-34.
 16. S. Tanasescu, C. Marinescu, F. Maxim, *Thermodynamics of nonstoichiometric micro and nanostructured lanthanum manganites*, Proceedings of the 14th Romanian International Conference on Chemistry and Chemical Engineering, RICCCE XIV Bucharest, 22-24 Sept. 2005, Physical Chemistry, 2, p. 53-60.
 17. S. Tanasescu, *Thermodynamics and Phase Diagram Investigation at Institute of Physical Chemistry Ilie Murgulescu of the Romanian Academy*, Proceedings of the VIII International Workshop of Associated Phase Diagram and Thermodynamics Committee (APDTC), Kosice, Slovakia, November 18-19, 2005, p. 44-47.
 18. S. Tanasescu, C. Marinescu, F. Maxim and N. Totir, *Thermodynamic Behavior of Some Micro and Nanostructured Perovskite-Type Oxides Used as Components in Solid State Electrochemical Cells*, 207th ECS Meeting - Quebec City, Canada, May 15 - May 20, 2005, Symposium D1 – Nanoscale Aspects in Electrochemical Surface Modification and Corrosion, Meeting Volume (on CD-ROM).
 19. A. Barhala, D. Dragoescu, M. Teodorescu, I. Wichterle, *Vapor- liquid equilibria and excess Gibbs energies of cyclopentanone + chloroalkane binary mixtures*, Proceedings of the 14th Romanian International Conference on Chemistry and Chemical Engineering, RICCCE 14, September 22-24, 2005, Bucharest, Romania, Vol. 2, p. 25-34.
 20. O. Iulian, C. Stoicescu, O. Ciocirlan, F. Sirbu, *Viscosities and excess viscosities of the binary and ternary systems water, 1,4-dioxane and ethylene glycol at 293.15 K*, Proceedings of the Romanian International Conference on Chemistry and Chemical Engineering-RICCCE XIV, Bucharest, 22-24 September 2005, vol. 2, section 3, Physical Chemistry, p. 77-84.
 21. F. Sirbu, O. Iulian, C. Stoicescu, *Prediction of the thermodynamic properties of aqueous mixedelectrolyte systems. Applications to the volumetric properties*, Proceedings of the Romanian International Conference on Chemistry and Chemical Engineering-RICCCE XIV, September 22-24, Bucharest Romania, 2005, vol. 2, section 3, Physical Chemistry, p. 156-161.