

1. Articole științifice, publicate în reviste de specialitate recunoscute la nivel național și internațional

1.1. Articole publicate în reviste cotate ISI

2017

B. Tutunaru, C. Tigae, C. Spinu, I. Prunaru, Spectrophotometry and electrochemistry of Brilliant Blue FCF in aqueous solution of NaX, *Int. J. Electrochem. Sci.*, 2017, 12(1), 396-412, DOI:10.20964/2017.01.64.

A. Samide, B. Tutunaru, Eurovanillin thermal behaviour and its inhibitory properties on carbon steel corrosion in weakly acidic environments, *J. Therm. Anal. Calorim.*, 2017, 127(1), 863-870, DOI:10.1007/s10973-016-5920-x.

A. Samide, B. Tutunaru, Thermal behavior of the chlorophyll extract from a mixture of plants and seaweed, *J. Therm. Anal. Calorim.*, 2017, 127(1), 597-604, DOI:10.1007/s10973-016-5490-y.

A. Samide, G.E. Iacobescu, B. Tutunaru, C. Tigae, Electrochemical and AFM study of inhibitory properties of thin film formed by tartrazine food additive on 304L stainless steel in saline solution, *Int. J. Electrochem. Sci.*, 2017, 12(3), 2088-2101, DOI:10.20964/2017.03.62.

A. Samide, B. Tutunaru, Interactions between vitamin C and nanocolloidal silver particles studied by cyclic voltammetry and UV-Vis spectrophotometry, *Electroanal.*, 2017, 29(11), 2498-2506, DOI: 10.1002/elan.201700281.

A. Samide, G.E. Iacobescu, B. Tutunaru, R. Grecu, C. Tigae, C. Spînu, Inhibitory Properties of Neomycin Thin Film Formed on Carbon Steel in Sulfuric Acid Solution: Electrochemical and AFM Investigation, *Coatings*, 2017, 7(11), 181; DOI:10.3390/coatings7110181.

A. Samide, R. Grecu, B. Tutunaru, C. Tigae, C. Spînu, Cisplatin-chemotherapeutic drug interactions with the surface of some metal bioimplants in physiological serum, *Int. J. Electrochem. Sci.*, 2017, 12(12), 11316-11329, DOI:10.20964/2017.12.66.

Dinu Maria, Soare Rodica, Dumitru Mihaela Gabriela, The effect of foliar fertilization with organic products on some nutritional value during post-harvest storage of tomatoes (*Lycopersicon esculentum* Mill), *Archivos Latinoamericanos de Nutricia (ALAN) Venezuela*, vol. 63, Nr. 3., p. 218-226, 2017, ISSN 0004-0622. (Editor Sociedad Latinoamericana de Nutrición (SLAN)).

Mihaela Gabriela Dumitru, Delia Nica Badea, Dragos Tutunea. Determination of Physicochemical Properties and Emissions for Different Blends of Biodiesel from Watermelon (*Citrullus lanatus* L.) Seeds and Diesel Fuel. *Rev.Chim.(Bucharest)* Vol. 68, (12), p. 2771-2775, 2017.

Delia Nica Badea, Mihaela Gabriela Dumitru, Igor Cretescu. Monitoring of Mercury Content in the Main Environmental Components Caused by Lignite Combustion in Large Thermal Power Plants, *MATERIALE PLASTICE* Vol. 54, No. 4, p. 781-764, 2017.

Mihaela Gabriela Dumitru, Dragos Tutunea, Extraction and Determination of Physico-chemical Properties of Oil from Watermelon Seeds (*Citrullus lanatus* L) to Use in Internal Combustion Engines. *Rev.Chim.(Bucharest)* Vol. 68(11), p. 2676-2681, 2017.

Mihaela Gabriela Dumitru, Anca Ganescu, Obtaining Natural Biopolymers Films of *Quercus robur* L and Roasted Seeds of *Vitis vinifera* Grapes. *Materiale plastice*, 54, No.2, p. 316-320, 2017.

Sendrea, C. Carșote, M. Radu, E. Badea, L. Miu, The effect of gamma irradiation on shrinkage activity of collagen in vegetable tanned leather, *Rev. Chim*, 68(7):1535-1538 (2017).

Sendrea, E. Badea (autor correspondent), A. Adams, Unilateral NMR and micro DSC study of artificially aged parchments, *Rev. Chim.*, 68(8):1780-1785 (2017).

G. Bratulescu, "Direct conversion of alkyl halides into benzimidazoles using pyridine-N-oxide and 1,2-diaminobenzenes", *ARKIVOC*, 2017, part iv, 95-103.

G Bratulescu, "A mild, one-pot preparation of 2-substituted benzimidazoles from organic halides", *Synthetic Communications*, 2017, 47, 811-817.

M.I. Duinea, A.M. Sandu, M.A. Petcu, I. Dabuleanu, G. Carac, P. Chirita, Aqueous oxidation of iron monosulfide (FeS) in the presence of glycine, *Journal of Electroanalytical Chemistry*, 804; 2017: 165-170.

P. Chirita, M.L. Schlegel, Pyrite oxidation in air-equilibrated solutions: An electrochemical study, *Chemical Geology*, 470; 2017: 67-74.

P. Chirita, I.V. Asaftei, I. Sandu, L.G. Sarbu, V.V. Lupu, Mesoionic 4-(2-Dialkylamino-1,3-dithiol-2-yl)phenolates, *Revista de Chimie*, 68; 2017: 147-150.

H. Manolea, M. Opri, N. Cioatera, A. Voinea et al, Characterization of the Specificity in Three Commercial Dental Ceramic Powders, *Rev. Chim.* 68 (2017) 707-710.

A.Rotaru, A.Moanță, C.Constantinescu, M.Dumitru, H.O.Manolea, A.Andrei, M.Dinescu, Thermokinetic study of CODA azoic liquid crystal and thin films deposition by matrix-assisted pulsed laser evaporation, *Journal of Thermal Analysis and Calorimetry*, 128 (1), 2017, 89-105.

Carja, Gabriela; Grosu, Elena Florentina; Mureseanu, Mihaela; et al., A family of solar light responsive photocatalysts obtained using Zn²⁺ Me³⁺ (Me = Al/Ga) LDHs doped with Ga₂O₃ and In₂O₃ and their derived mixed oxides: a case study of phenol/4-nitrophenol decomposition, *CATALYSIS SCIENCE & TECHNOLOGY* Volume: 7 Issue: 22 Pages: 5402-5412 Published: NOV 21 2017

A. Samide*, P. Ilea, A. C. Vladu, Metronidazole Performance as Corrosion Inhibitor for Carbon Steel, 304L Stainless Steel and Aluminum in Hydrochloric Acid Solution, *International Journal of Electrochemical Science*, 12(7); 2017: 5964-5983

2018

Stiolica, Adina Turcu; Bubulica, Maria Viorica; Nicolaescu, Oana Elena; Croitoru, Octavian; Popescu, Mariana; Manda, Valentin Costel; Simionescu, Andreea; Neamtu, Johny
A Design of Experiment Approach to the Synthesis of Alendronate-incorporated Hydroxyapatite, REVISTA DE CHIMIE, Volume 69 Issue 8 Page 1944-1948 Published 2018

B. Tutunaru, A. Samide, C. Neamtu, C. Tigae, Spectroelectrochemical studies of interactions between vitamin a and nanocolloidal silver. *Int. J. Electrochem. Sci.*, 2018, 13(6), 5850-5859, DOI:10.20964/2018.06.64

MIHAELA GABRIELA DUMITRU. Biochemical Changes of Dried Fruit of Figs (*Ficus carica* L.) During Storage. *REV.CHIM.(Bucharest)*, Vol. 69, No. 12, p. 3605-3610, 2018.

MIHAELA GABRIELA DUMITRU. Obtaining Biodiesel with High Oxidation Stability from the Oil Blend Extracted from Seeds of *Citrullus lanatus* and *Vitis vinifera*. *REV.CHIM.(Bucharest)*, Vol. 69, No. 6, 2018, p. 1378-1385.

Bernath, I. Teodorescu, M. Ryhl-Svendsen, E. Badea, L. Miu, M. Guttman, Levels of Preservation for Cultural Heritage within an Open-air Museum, *Studies in Conservation* 63(sup1), 323-325 (2018). DOI: 10.1080/00393630.2018.1486531.

E. Hadimbu, E. Badea, C. Carsote, C. Sendrea, L. Miu Halloysite nanotubes as innovative consolidants for historical leather, Halloysite nanotubes as innovative consolidants for historical leather, *Proceedings of the 7th International Conference on Advanced Materials and Systems*, Eds. L. Albu and V. Deselnicu, p. 189-194 (2018) DOI: 10.24264/icams-2018.II.2.

G. Bratulescu, "2-Substituted benzimidazole synthesis in dry medium mediated by pyridine-N-oxide", *Revista de Chimie*, 2018, 69(12), 3569-3572.

P. Chirita, M.I. Duinea, A.M. Sandu, L.M. Birsa, L.G. Sarbu, M. Baibarac, F. Sava, M. Popescu, E. Matei, Inhibitory effect of three phenacyl derivatives on the oxidation of sphalerite (ZnS) in air-equilibrated acidic solution, *Corrosion Science*, 138; 2018: 154-162.

Cioatera, C.A. Rosculete, E.A. Voinea, E. Rosculete, C.I. Spinu, The influence of Al dopant on the structure, densification behavior and electrical conductivity of heavily doped $\text{Sm}_2\text{Ti}_2\text{O}_7$, *J. Alloys Compd.* 764 (2018) 476-481.

M. Leulescu, A. Rotaru, I. Palarie, A. Moanta, N. Cioatera, M. Popescu, E. Morintale et al, Tartrazine: physical, thermal and biophysical properties of the most widely employed synthetic yellow food-colouring azo dye, *J. Thermal Anal. Calorim.* 134 (2018) 209-231.

A.Reiss, N. Cioatera, M.C. Chifiriuc, G. Munteanu et al, New biologically active mixed-ligand Co(II) and Ni(II) complexes of enrofloxacin, *J Thermal Anal. Calorim* 134 (2018) 527-541.

A.Reiss, M.C. Chifiriuc, E. Amzoiu, N. Cioatera, I. Dabulean, P. Roraru, New metal(II) complexes with ceftazidime Schiff base, *J Thermal Anal. Calorim* 131 (2018) 2073-2085.

Mureseanu, Mihaela; Filip, Mihaela; Somacescu, Simona; et al., Ce, Ti modified MCM-48 mesoporous photocatalysts: Effect of the synthesis route on support and metal ion properties,

APPLIED SURFACE SCIENCE Volume: 444 Pages: 235-242 Published: JUN 30 2018

D. Gilea, T. Radu, M. Mureseanu, G. Carja, Plasmonic photocatalysts based on silver nanoparticles-layered double hydroxides for efficient removal of toxic compounds using solar light, APPLIED SURFACE SCIENCE Volume: 444 Pages: 407-413 Published: JUN 30 2018

T. Diaconu, M. Ciobanu, G. Petcu, D. Culita, S. Preda, J. Pandele, M. Mureseanu, V. Parvulescu, Cerium modified mesoporous TiO₂ photocatalysts obtained by sol-gel method, REVUE ROUMAINE DE CHIMIE Volume: 63 Issue: 5-6 Pages:467-474 Published: NOV-DEC 2018

Bleotu, Irina; Dragoi, Elena Niculina; Mureseanu, Mihaela; et al., Removal of Cu(II) Ions from Aqueous Solutions by an Ion-Exchange Process: Modeling and Optimization, ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY Volume: 37 Issue: 1 Pages: 605-612 Published: JAN 2018

A. Samide*, S. Iordache, G. E. Iacobescu, C. Tigae, C. Spînu, Titanium Implant Surface Modification in Physiological Serum Containing New Mixed Inhibitor Based on Poly(vinyl) Alcohol/Silver Nanoparticles/Epirubicin , International Journal of Electrochemical Science, 13; 2018: 12125 – 12139.

2019

Cioatera, Nicoleta; Voinea, Elena-Adriana; Dobritescu, A.; Simionescu, Andreea; Resceanu, C. I.; Spinu, C. -I., Changes in structure and electrical conductivity of some rare-earth-doped ceria induced by strontium addition, IONICS, Volume 25 Issue 6 Page 2735-2743 Published 2019

Ciulu-Costinescu, Felicia; Podgoreanu, Paulina; Delcaru, Cristina; Simionescu, Andreea; Georgescu, Eugen Florin; Bostan, Marinela; Chifiriuc, Mariana-Carmen
ANTIMICROBIAL ASSAY OF A CAPSAICIN - alpha-CYCLODEXTRIN INCLUSION COMPLEX AGAINST PLANKTONIC AND ADHERENT CELLS, FARMACIA, Volume 67 Issue 3 Page 496-503 Published 2019

Marutoiu, Constantin; Bratu, Ioan; Buta, Mircea Gelu; Nemes, Olivia Florena; Timbus (Monk Siluan), Sergiu Petru; Tanaselia, Claudiu; Simionescu, Andreea, Multidisciplinary Investigations of a Double Sided Wooden Icon from Nicula Monastery, Romania, REVISTA DE CHIMIE, Volume 70 Issue 8 Page 2747-2752 Published 2019

B. Tutunaru, A. Samide, C. Neamțu, I. Prunaru, Electrochemical and thermal stability of Brown HT food additive, Chem. Ind. & Chem. Eng. Quarterly, 2019, 25(1), 89-96, DOI10.2298/CICEQ180318022T.

A. Samide, R. Stoean, C. Stoean, B. Tutunaru, R. Grecu, N. Cioateră, Investigation of polymer coatings formed by polyvinyl alcohol and silver nanoparticles on copper surface in acid medium by means of Deep Convolutional Neural Networks, Coatings, 2019, 9(2), 105, DOI:10.3390/coatings9020105.

S. Iordache, B. Tutunaru, A. Samide, A. Popescu, Electrochemical and thermal stability of nystatin drug, *Rev. Chim.*, 2019, 70(2), 503-505.

C. Neamțu, B. Tutunaru, A. Samide, A. Popescu, Reducing the ecotoxicity of pesticide polluted waters by electrochemical methods, *Rev. Chim.*, 2019, 70(5), 1574-1578.

MIHAELA GABRIELA DUMITRU. Degumming Role of Sunflower Oil (*Helianthus annuus*) on Biodiesel Quality. *REV.CHIM.(Bucharest)*, Vol. 70, No. 1, p. 54-58, 2019.

F. Cappa, I. Paganoni, C. Carsote, E. Badea, M. Schreiner, Studies on the effects of mixed light-thermal ageing on parchment by vibrational spectroscopy and micro hot table method, *Herit. Sci.* 8, 15 (2019).

E. Badea, Chemistry for cultural heritage: connecting past and future, *Herit. Sci.* 7, 99 (2019) Editorial. DOI: 10.1186/s40494-019-0342-2.

C. Carsote and E. Badea (autor correspondent), Micro differential scanning calorimetry and micro hot table method for quantifying deterioration of historical leather. *Herit Sci* 7, 48 (2019) DOI:10.1186/s40494-019-0292-8.

E. Badea (autor correspondent), C. Carsote, E. Hadimbu, C. Sendrea, M. C. Lupas, The effect of halloysite nanotubes dispersions on vegetable-tanned leather thermal stability. *Herit Sci* 7, 68 (2019) DOI:10.1186/s40494-019-0310-x.

Z. Sebestyén, E. Jakab, E. Badea, E. Barta-Rajnai, C. Șendrea, Zs. Czégény, Thermal degradation study of vegetable tannins and vegetable tanned leathers, *J. Anal. Appl. Pyrol.* 138, 178-187 (2019) DOI: 10.1016/j.jaap.2018.12.022.

A. Samide, G. Bratulescu, C. Merisanu, N. Cioatera, "Anticorrosive coating based on poly(vinyl acetate) formed by electropolymerization on the copper surface", *Journal of Applied Polymer Science*, 2019, 136 (14), 47320.

P. Chirita, Galena oxidation in oxygen-bearing acidic solutions, *ACS Earth and Space Chemistry*, 3; 2019: 2593-2600.

M.I. Duinea, G. Carac, I.D. Dabuleanu, M.A. Petcu, L.G. Sarbu, M.L. Birsa, A. Reiss, P. Chirita, Troilite (FeS) Oxidation in the Presence of a Newly Synthesized TRIS-based Base, *Revista de Chimie*, 70; 2019: 2639-2642.

P. Chirita, Evaluation and modeling of the surface characteristics of troilite (FeS), *Applied Surface Science*, 480; 2019: 281-287.

C.N. Lungu, I.V. Asaftei, I. Sandu, P. Chirita, L.G. Bahrin, Synthesis of 4-(2-Hydroxy-5-methylphenyl)-1,3-Dithiol-2-ylidene Derivatives, *Revista de Chimie*, 70; 2019: 1558-1560

L.G. Sarbu, C.N. Lungu, I. Sandu, P. Chirita, L.G. Bahrin, Synthesis of 2-Pyrrolydiny-1,3-Dithiolium Derivatives from Propiophenones, *Revista de Chimie*, 70; 2019: 1311-1314.

N. Cioatera, E.A. Voinea, P. Osiceanu, F. Papa, A. Duta, I. Resceanu, C.I. Spinu, Vanadium-substituted Sm₂Ti₂O₇ pyrochlore. Insight into the structure and electrical conductivity under oxidizing and highly reducing atmosphere, *Solid State Ionics*, 339 (2019) UNSP 114995.

M. Matei, E.A. Voinea, R. Rica, H. Manolea, L. Mogoanta, A. Salan, A. Rica, V.C. Dinescu, N. Cioatera, New zirconia-based materials for dental applications. Structural, morphological and histological evaluation, *Ceram. Int.* 45 (2019) 14859-14866.

R. Grecu, A. Samide, G.E. Iacobescu, N. Cioatera, A. Popescu, Copper corrosion inhibitors based on polyvinyl alcohol and silver nanoparticles, *Chem Ind & Chem Eng Quart.* 25 (2019) 267-275.

M. Leulescu, I. Palarie, A. Moanta, N. Cioatera, M. Popescu, E. Morintale et al, Brown HT Physical, thermal and biophysical properties of the food azo dye, *J Thermal Anal Calorim* 136 (2019) 1249-1268.

A.A. Georgescu, A. Eliescu, C.M. Nicolescu, M. Bumbac, N. Cioatera, M. Mureseanu, L.C. Buruleanu, Performance of *Pleurotus ostreatus* Mushrooms and Spent Substrate for the Biosorption of Cd(II) From Aqueous Solution, *Anal. Lett.* 52 (2019) 2007-2027.

S. Somacescu, N. Cioatera, P. Osiceanu, J.M. Calderon-Moreno, C. Ghica, F. Neatu, M. Florea, Bimodal mesoporous NiO/CeO₂-delta-YSZ with enhanced carbon tolerance in catalytic partial oxidation of methane-Potential IT-SOFCs anode, *Appl. Catal. B – Environ.* 241 (2019) 393-406.

H. Manolea, I.M. Matei, C.M.L. Nistor, A.C. Lazar, A.I. Salan, O. Gingu, N. Cioatera, M.M. Iacov-Craitoiu, B.M. Galbinas, A microscopic insight of the morphological changes induced by dental zirconia prosthetic structures, *Rom. J. Morphol. Embryol.* 60 (2019) 875-881.

Ionescu E, Chirita A, Cotoi B.V., Ganescu A, cHyperproduction Hydrogenic of STH Patology Generation of Clinical-Paraclinical disorders, *Revista de Chimie* 70(4), 2019, 1319-1322

Mavrotsakis.N, Ursu V.E., Ganescu A, Ionescu E, Clinical and biological study on the relevance of hyperfibrinogenemia in cardiovascular pathology of the obese patient, *Revista de Chimie* 70(3), 2019, 950-955.

Ionescu E, Cotoi.B.V., Ganescu A, Impact of prolactin hypersecretion on glucid and lipid metabolism, *Revista de Chimie* 70(5) , 2019, 1603-1607

Mavrotsakis.N, Ursu V.E., Ionescu E, Ganescu A, Study Actual study recording quantitative determination of tetracyclines by electrical analysis and methods potentiometric sensors for tetracycline, *Revista de Chimie* 70(2), 2019, 671-675.

Cotoi.B.V., Mavrotsakis.N, Ganescu A, Ionescu, The effect of STH hypersecretion on neuro-psychic function, *Revista de Chimie* 70(6), 2019, 2225-2228

Mavrotsakis.N, Cotoi.B.V, Ganescu A, Ionescu, Clinical and biochemical correlations obesity –HDL cholesterol ischemic coronary heart disease, *Revista de Chimie* 70(5), 2019, 1765-1768

2020

A. Samide, C. Merisanu, B. Tutunaru, G.E. Iacobescu, Poly (vinyl butyral-co-vinyl alcohol-co-vinyl acetate) coating performance on copper corrosion in saline environment, *Molecules*, 2020, 25(3), 439, DOI:10.3390/molecules25030439.

A. Samide, B. Tutunaru, C. Merișanu, N. Cioateră, Thermal analysis: an effective characterization method of polyvinyl acetate films applied in corrosion inhibition field, *J. Therm. Anal. Calorim.*, 2020, 142(5), 1825-1834, DOI:10.1007/s10973-020-09489-y.

C. Merișanu, A. Samide, G. E. Iacobescu, B. Tutunaru, C. Tigae, A. Popescu, Anticorrosive performance of vinyl butyral-co-vinyl alcohol-co-vinyl acetate based copolymer adsorbed on steel surfaces. Electrochemical and AFM studies, *Int. J. Electrochem. Sci.*, 2020, 15(10), 0197- 10211, DOI10.20964/2020.10.25.

F. Cappa, I Paganoni, C Carsote, M. Schreiner, E. Badea (autor correspondent), Studies on the effect of dry-heat ageing on parchment deterioration by vibrational spectroscopy and micro hot table method, *Polym. Degrad. Stab.*, 182, 2020, 109375.

N. Proietti, Valeria Di Tullio, C. Carsote, E. Badea (autor correspondent), ¹³C Solid State NMR, ATR-FTIR and micro-DSC to study modern collagen based material and historical leather. *Magn. Reson. Chem.*, 58, 2020, 840-859. Invited paper: Special issue on NMR in Cultural Heritage.

C. Carsote, E. Badea (autor correspondent), I. Caniola, S. Paunescu, M.-C. Lupas, C. Sendrea, L. Miu, The Homiliary of Varlaam: Scientific investigation of the leather bookbinding, *Rev. Chim.*, 71(3), 2020, 51-58.

P. Chirita, M.I. Duinea, L.G. Sarbu, L.M. Birsa, M. Baibarac, F. Sava, E. Matei, Oxidation of chalcopyrite in air-equilibrated acidic solution: Inhibition with phenacyl derivatives, *Transactions of nonferrous metals society of China*, 30; 2020: 1928-1942.

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, *Ceram. Int.* 46 (2020) 29358-29372.

V. Chivu, D. Gilea, N. Cioatera, G. Carja, M. Mureseanu, Heterostructures of Ce-Ti/layered double hydroxides and the derived MMOs for photoenergy applications, *Appl. Surf. Sci.* 513 (2020) Art No 145853.

A.Eliescu, A.A. Georgescu, C.M. Nicolescu, M. Bumbac, N. Cioatera, M. Mureseanu, L.C. Buruleanu, Biosorption of Pb(II) from Aqueous Solution Using Mushroom (*Pleurotus ostreatus*) Biomass and Spent Mushroom Substrate, *Analytical Lett.* DOI: 10.1080/00032719.2020.1740722

C.A.Carabet, A.Moanță, I.Pălărie, 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, 5757

Mihaela Filip, Gabriela Petcu, Elena M. Anghel, Simona Petrescu, Bogdan Trica, Petre Osiceanu, Nicolae Stanica, Irina Atkinson, Cornel Munteanu, Mihaela Mureseanu, Viorica Parvulescu, FeTi- SBA-15 magnetic nanocomposites with photocatalytic properties, CATALYSIS TODAY, 2020, <https://doi.org/10.1016/j.cattod.2020.08.003>

Mihaela Mureseanu, Valentina Chivu, Mariana Osiac, Madalina Ciobanu, Cristina Bucur, Viorica Parvulescu, Nicoleta Cioatera, New photoactive mesoporous Ce-modified TiO₂ for simultaneous wastewater treatment and electric power generation, CATALYSIS TODAY, 2020, <https://doi.org/10.1016/j.cattod.2020.09.035>

1.2. Articole publicate în reviste indexate BDI

2017

A. Voinea, A. Simionescu, A. Popescu, *Materials for solid oxide fuel cells*, Annals of the University of Craiova. The Chemistry Series, 2017, no.1, vol XLIV

B. Tutunaru, I. Prunaru, M. Mateescu, The electrodeposition of composite coatings based on Sn/CeO₂; their surface chemistry and corrosion behavior, Annals Univ Craiova, Seria Chimie, vol. XLIV, no. 1, 2017, 26-35.

B. Tutunaru, C. Neamțu, C. Tigae, A. Dobrițescu, C. Spînu, The electrochemical response of tartrazine in electrified salted aqueous solution, Annals Univ Craiova, Seria Chimie, vol. XLIV, no. 1, 2017, 84-92.

Mihaela Gabriela Dumitru. Natural sources used to obtain edible films, Annals of the University of Craiova, The Chemistry Series, Volume XLIV, No. 2(2017) 65-74.

C. Sendrea, L. Miu, M. Crudu, E. Badea, The influence of new preservation products on vegetable tanned leather for heritage object restoration, Leather and Footwear Journal, 17(1), 9-16 (2017). ISSN: 1583-4433

Duinea M.I., Manea M., Sandu A.M., Ghejan B., Petcu M., Chiriță P. (2017) The oxidative dissolution of iron monosulfide (FeS): A Cyclic Voltammetry study. Analele Universitatii din Craiova. Seria Chimie 46.

G. Ciobanu, C. Ionescu, A.G. Eliescu, M. Mateescu, Study on the inhibition of wheat bran acid phosphatase activity, Annals of the University of Craiova, The Chemistry Series, XLIV(1), 2017, 13-24.

G. Ciobanu, C. Ionescu, M. Mateescu, Comparative study on the biochemical and physiological effects of Cd, Cu and Zn in wheat plants, Annals of the University of Craiova, The Chemistry Series, XLIV(1), 2017, 36-45,

G. Ciobanu, C. Ionescu, A. Reiss, Does the oxidation state impact chromium toxicity in wheat seedlings? Annals of the University of Craiova The Chemistry Series Volume XLIV, No. 2 (2017) 12-23.

C. Ionescu, A. Fruchier, G. Ciobanu, A. Moanță, V. Barragan-Montero, Use of NMR patterns in establishing the C- or O-alkylated structure in derivatives of protected mannose *Annals of the University of Craiova The Chemistry Series Volume XLIV, No. 2 (2017) 2-11.*

Florina Ciolan, Anca Gănescu, "Thermal analysis of some binuclear bioactive complexes derived from an aromatic dialdehyde and L-tryptophan", *Annals of the University of Craiova, The Chemistry Series, XLIV(2), 2017, 58-64.*

C. Băbeanu, M. Soare, M. Drăgoi, Effects of drought stress on some oxidoreductase enzymes and proline content in leaves of salix genotypes, *Nano, Bio and Green-Technologies for a Sustainable Future, 17 (61), 2017, 665-672. ISSN 1314-2704*

A.Moanță, C.Ionescu, S.Iordache, Azoethers and azoesters with antimicrobial activity *Analele Univ. Craiova, Seria Chimie, 2017, XLIV(2), 24-35.*

C.Ionescu, A.Fruchier, G.Ciobanu, A.Moanță, V.Barragan-Montero, Use of NMR patterns in establishing the C- or O-alkylated structure in derivatives of protected mannose, *Analele Univ. Craiova, Seria Chimie, 2017, XLIV (2), 2-11*

G.Iovan, M. Mureseanu, M.Darie, „Novel composite C₃N₄/CuO on layered double hydroxide matrix with enhanced oxidative catalytic activity”, *Analele Univ. Craiova, seria Chimie, Vol XLIV(1), 2017, 54-64.*

Sbîrnă L. S., Moldovan C. S, Synthesis and description of three square-planar d⁸ complex compounds involving charge-transfer systems, *Analele Universității din Craiova, Chimie, 2017 (2), XLIV*

Sbîrnă L. S., Sbîrnă S., Oubraham A, Investigating the coordination manner of a heterocyclic thioamide to Pt(II) by EHT interpretation of the electronic spectra for both free and coordinated organic ligand, *Analele Universității din Craiova, Chimie, 2017 (2), XLIV*

Sbîrnă L. S., Oubraham A., Moldovan C. S., Mateescu M. D., Double-charged and mono-charged tautomeric forms of three hexacoordinated complex compounds of Fe(II), *Analele Universității din Craiova, Chimie, 2017 (1), XLIV*

Sbîrnă L. S., Sbîrnă S., Reiss A., Mateescu M. D., Extended Hückel Theory applied on three complex compounds formed by Fe(II) with two dipyridyl molecules and one ligand containing both pyridine and benzo[d]imidazole as heterocyclic rings, *Analele Universitatii din Craiova, Chimie, 2017 (1), XLIV*

2018

Mihaela Gabriela Dumitru, Cristina Teisanu, Oana Gîngu. Obtaining of biopolymer from Onoin (*Allium cepa* L.) used as a binder in metal injection molding process (MIM). *Advanced Engineering Forum* Nr. 1. Vol. 27 p. 50-55, Aprilie 2018. Si indexate în BDI. ISSN print 2234-9898, ISSN cd 2234-9901 ISSN web 2234-991X

C. Carsote, L. Kövari, C. Albu, Emanuel Hadîmbu, E. Badea, L. Miu, G. Dumitrescu, Bindings of rare books from the collections of the Romanian Academy Library - a multidisciplinary study, *Leather and Footwear Journal, 18(4), 307-320 (2018).*

G. Brătulescu, C. S. Mirea, S. D. Neamțu, L. Radu, C. V. Albu, C. Geormăneanu, " A three-component reaction in a heterogeneous medium to obtain aromatic aldehydes ", Annals of the University of Craiova, The Chemistry Series, 2018, Volume XLV, No. 1, 30-38.

G. Ciobanu, C. Ionescu, A. G. Eliescu, Analysis of the sugar profile and ascorbate content of some beverages containing orange juice. Annals of the University of Craiova, The Chemistry Series, Volume XLV, No. 1, 2018, 46-59.

Anca Gănescu, Florina Ciolan, Elena Ionescu, Adina Dorina Glodeanu, Simona Daniela Neamțu, Cecil Sorin Mirea, Lucrețiu Radu, Carmen Valeria Albu, Cristina Geormăneanu, „Contribution to Co(III) nitrocomplexes chemistry. New analogues of $\text{NH}_4[\text{Co}(\text{NO}_2)_4(\text{NH}_3)_2]$ complex with hexamethylenetetramine”, Annals of the University of Craiova, The Chemistry Series, XLV(1), 2018, 39-45.

Aurora Reiss, Liana Simona Sbîrnă, Irina Dăbuleanu, Maria Geanina Iovan, Metal complexes with thioamides and thiones -An overview, Annals of the University of Craiova, The Chemistry Series, XLV(1), 2018, 60-74.

A.Moanță, A.Ristache, Interaction of collagen with an azo dye, Analele Univ. Craiova, Seria Chimie, 2018, XLV(1), 3-9

V.Chivu, T.Diaconu, I.Trandafir, N.Cioatera, M.Ionică, M. Mureseanu, „New electrodes based on cerium modified mesoporous TiO_2 for simultaneous treatment of waste water and electricity production”, Analele Univ. Craiova, seria Chimie, Vol XLV(1), 2018, 75-88.

R. Stoean, C. Stoean, A. Samide, Deep Learning for Metal Corrosion Control: Can Convolutional Neural Networks Measure Inhibitor Efficiency?; 20th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 20-23 septembrie, 2018, Book Series: International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, 2019, pages: 387-393

Sbîrnă L. S., Sbîrnă S., Moldovan C. S., Investigating the manner in which a naphtoquinonic thiol coordinates to a metal center by using HOMO-LUMO methods, Analele Universitatii din Craiova, Chimie, 2018 (1), XLV

Reiss A., Sbîrnă L. S., Dabuleanu I., Iovan M. G., Metal complexes with thioamides and thiones – an overview, Analele Universității din Craiova, Chimie, 2018 (1), XLV

2019

L. Miu, E. Badea, C. Sendrea, The behavior of sheep leather parchment to artificial ageing, Leather and Footwear Journal, 19 (4), 107-112 (2019). ISSN 1583 – 4433

R. Stoean, C. Stoean, A. Samide, G. Joya, Convolutional Neural Network Learning Versus Traditional Segmentation for the Approximation of the Degree of Defective Surface in Titanium for Implantable Medical Devices, 15th International Work-Conference on Artificial Neural Networks (IWANN), 12-14 iunie, Malaga, Spania 2019, Book Series: Lecture Notes in Computer Science, vol. 11506, 2019, pages: 871-882

2020

Dumitru Mihaela Gabriela, Phytochemical screening, total hydroxycinnamic acids, total phenolic and antioxidant activity of *Lavandula angustifolia* Mill, GSC Biological and Pharmaceutical Sciences, 10(2), 001-008, 2020, e-ISSN: 2581-3250, CODEN (USA): GBPSC2, DOI: doi.org/10.30574/gscbps.2020.10.2.0235 DOI url: <https://doi.org/10.30574/gscbps.2020.10.2.0235>

C. Şendrea, M.-C. Micu, E. Hadîmbu, S. M. Păunescu, I. M. Caniola, M. Ignat, L. Miu, E. Badea, Micro DSC and NMR mouse studies of collagen–vegetable tannin interaction mechanism during leather making, Proceedings of the 8th International Conference on Advanced Materials and Systems (ICAMS 2020), Eds. Gh. Coara and L. Alexandrescu, Certex, Bucharest, 2020, p. 561-566. ISSN: 2068 – 0783

M. Ignat, L. Miu, E. Hadîmbu, C. Şendrea, M.-C. Micu, S. M. Păunescu, I. M. Caniola, E. Badea, The influence of TiO₂ and nano-TiO₂ nanopowders in natural leather finishing for heritage or modern binding, Proceedings of the 8th International Conference on Advanced Materials and Systems (ICAMS 2020), Eds. Gh. Coara and L. Alexandrescu, Certex, Bucharest, 2020, p. 501-506. ISSN: 2068 – 0783

Lucreţia Miu, Rodica Roxana Constantinescu, Alpaslan Durmuş Kaya, Emanuel Hadîmbu, Claudiu Şendrea, Maria-Cristina Micu, Simona Maria Păunescu, Iulia Maria Caniola, Elena Badea, Aspects regarding the effectiveness of volatile oils of the *Tanacetum vulgare* species in the conservation of heritage objects, Proceedings of the 8th International Conference on Advanced Materials and Systems (ICAMS 2020), Eds. Gh. Coara and L. Alexandrescu, Certex, Bucharest, 2020, p. 513-518. ISSN: 2068 – 0783

L. Miu, M. Giurgincă, I.M. Caniola, M.-C. Micu, S.M. Păunescu, C. Şendrea, E. Badea, Chromatic assessment of newly manufactured leather and parchment for museum purposes, Proceedings of the 8th International Conference on Advanced Materials and Systems (ICAMS 2020), Eds. Gh. Coara and L. Alexandrescu, Certex, Bucharest, 2020, p. 519-524. ISSN: 2068 – 0783

L. Miu, S.M. Păunescu, M.-C. Micu, I.M. Caniola, M. Ignat, C. Şendrea, E. Badea, Chemical and physico-mechanical characterizations of leather for restoration, Proceedings of the 8th International Conference on Advanced Materials and Systems (ICAMS 2020), Eds. Gh. Coara and L. Alexandrescu, Certex, Bucharest, 2020, p. 525-530. ISSN: 2068 – 0783

O. Niculescu, C. Gaidău, E. Badea, L. Miu, D. Gurău, M. Berechet, Ecological approaches for protecting and perfuming natural sheepskin fur, Proceedings of the 8th International Conference on Advanced Materials and Systems (ICAMS 2020), Eds. Gh. Coara and L. Alexandrescu, Certex, Bucharest, 2020, p. 225-230. ISSN: 2068 – 0783

O. Niculescu, C. Gaidău, E. Badea, L. Miu, D. Gurău, D. Simion, Special effect finish for bookbinding leather, Proceedings of the 8th International Conference on Advanced Materials and Systems (ICAMS 2020), Eds. Gh. Coara and L. Alexandrescu, Certex, Bucharest, 2020, p. 231-236. ISSN: 2068 – 0783

L. Miu, E. Badea, S. M. Paunescu, C. Sendrea, M.-C. Micu (Lupas), I.-M. Caniola, A. Moldovan, Parchment, the famous writing support: from ancient times to present, *Annals of the University of Oradea: Fascicle of Textiles, Leatherwork*, 21(2): 87-92 (2020), available at <https://doaj.org/article/72c0e93cae1c4f1993f68f4205e64ab2>

L. Miu, E. Badea, C. Şendrea, M.-C. Micu, S. M. Păunescu, I. M. Caniola, The behavior of sheep leather parchment to artificial ageing, *Leather and Footwear Journal*, 20(3): 313-322 (2020) DOI:10.24264/lfj.20.3.9

L. Miu, E. Badea, C. Sendrea, Characterization of new and artificially aged parchments, *Leather and Footwear Journal*, 20(2):197-204 (2020). DOI 10.24264/lfj.20.2.10

G. Ciobanu, C. Ionescu, A.A. Boboc, S. M. Lazar, Exogenous gibberellic acid effects in wheat plants exposed to copper stress. *Annals of the University of Craiova, The Chemistry Series*, Volume XLVI, No. 1, 2020, 29-45.

Anda Gabriela Tenea, Gabriela Geanina Vasile, Gina Alina Catrina, Mihaela Mureseanu, Matrix-type certified reference materials for quality control of metal determination from solid environmental and vegetation samples, *Romanian Journal of Ecology and Environmental Chemistry*, Vol 2 (1), 2020, 21-27

Sbîrnă L. S., Sbîrnă S., Oubraham A., Moldovan C. S., Structure modelling and comparison between the charge-transfer capacities of diposphinic bidentate ligands in two series of ruthenium(II) complex compounds, *Analele Universitatii din Craiova, Chimie*, 2020, XLVI

Aurora Reiss, Raul-Augustin Mitran, Cristina Babeanu, Emilia Amzoiu, Manuel Ovidiu Amzoiu, Renata Maria Varut, Anca Ganescu, New Bioactive Co(II) and Ni(II) complexes with ofloxacin mexed-ligand, *Revista de Chimie*71(10),2020,11-27

Anda Gabriela Tenea, Gabriela Geanina Vasile, Cristina Dinu, Stefania Gheirghe, Luoana Florentina Pascu, Mihaela Mureseanu, Corina Ene, „Behavior of Cd accumulation in *Sinapis alba* L. in the presence of essential elements (Ca, Mg, Fe, Zn, Mn, Cu, Ni)”, *Revista de Chimie*, 71(6), 2020, 378-379.

2. Brevete

M. Crudu, E. Badea, M.-C. Micu, C. Sendrea, L. Miu, Compoziție pe bază de proteine recuperate din deșeuri de piele și extracte din alge brune și procedeu pentru biotăbăcirea pieilor, OSIM A/00235-30.04.2020

M. Crudu, E. Badea, L. Miu, C. Sendrea, Procedeu ecologic de obtinere a unor suporturi colagenice destinate industriilor creative, OSIM A/00701-31.10.2019

L. Miu, M. Crudu, E. Badea, Procedeu ecologic de obtinere a pieilor ovine cu proprietati antimicrobiene, OSIM A/01022-03.12.2018

L. Miu, E. Badea, Pergament modern pentru industriile creative. Procedeu de obtinere, OSIM A/01023-03.12.2018

L. Miu, M. Crudu, E. Badea, M.-D. Berechet, C. Sendrea, Compozitie cu efect antifungic si antibacterian pentru conservare curativa si preventiva a obiectelor de patrimoniu pe suport colagenic, OSIM A/00375-29.05.2018

3. Cărți și capitole din cărți publicate

3.1. Cărți/capitole publicate în edituri internaționale

E. Badea and C. Carsote, I segreti della pergamena del testamento di Marco Polo. In "Il testamento di Marco Polo. IL documento, la storia, il contesto", Ed. T. Plebani, Edizioni Unicopli, Collana Miscellanea Marciana, Milano, 2019, p. 169-185. ISBN 978-88-400-2051-8
Il testamento di Marco Polo. Il documento, la storia, il contesto Libro - Libraccio.it

E. Badea and C. Carsote, I segreti della pergamena del testamento di Marco Polo/The secrets of the parchment containing Marco Polo's will. In "Ego Marcus Paulo volo et ordino. I segreti del Testamento di Marco Polo", Ed. T. Plebani, Biblioteca Nazionale Marciana & Scrinium, Venezia, p. 246-271, 2017. ISBN 978-88-96364-04-8.

<http://www.scrinium.org/it-it/Committenza/Biblioteca-Nazionale-Marciana/il-testamento-di-marco-polo>

3.2. Cărți/capitole publicate în edituri naționale

C. Carșote, E. Badea, Gh. Niculescu, Tetraevanghelul Mănăstirii Florești - amprenta materialelor și roata culorilor/The Tetraevanghelion of the Floresti Monastery – Materials Fingerprint and Colour Wheel. In Tetraevangheliarul Manastirii de la Floresti - Capodopera a artei caligrafierii și miniaturii in Moldova secolului XVI/ The Tetraevangelion of the Floresti Monastery - Masterpiece of the art of calligraphy and miniature in 16th century Moldova. Anastatic edition of th original digitized volume preceded by a bilingual introductory part, in Romanian and English, the National Museum of History of Romania (MNIR), Bucharest, 2020, p. 28-59 (electronic publication)

C. Carșote, E. Badea, Z. I. Baltă, I. Petroviciu, L. Miu, Analize printre rânduri - despre materialele și tehnicile utilizate la realizarea Codexului Altemberger / Unveiling the secrets of Codex Altemberger: about the materials and techniques used. In: "Codex Altemberger. Primul cod de legi al sașilor din Sibiu". Anastatic edition, preceded by a bilingual introductory part,

in Romanian and English (title page and editorial notes, contents, specialized critical studies with bibliography, all having correspondent in English), as well as the original digitized volume, the National Museum of History of Romania (MNIR), Bucharest, 2019, p. 52-77 and 120-143. ISBN 978-973-0-29638-9

C. Carșote, Z. I. Baltă, E. Badea, L. Miu, Materialele utilizate la realizarea Tetraevangheliarului lui Nicodim de la Tismana sub lupa tehnicilor moderne de analiză / Materials in the Tetraevangelion of Nicodemus from Tismana under the magnifying lens of modern analysis techniques. In Tetraevanghelul sfintului cuvios Nicodim de la Tismana. / The Tetraevangelion of Saint Pious Nicodemus of Tismana. Anastatic edition with a bilingual introduction (in Romanian and English), focusing on a historical study and the physical-chemical evaluation of the materials used to make the religious book. The Ministry of Culture and National Identity. The National Museum of Romanian History. Magic Print, Onești, 2018, p. 72-122. ISBN 978-606-622-398-0

Sbirna L. S., Sbirna S., Chimie generală - Structura atomilor, moleculelor și rețelelor, Editura Universitaria, Craiova, 2019, ISBN 978-606-14-1454-3

Sbirna L. S., Sbirna S., Chimie coordinativă și biocoordinativă, Editura Universitaria, Craiova, 2018, ISBN 978-606-14-1333-1

4. Comunicări științifice la conferințe/simpozioane

4.1. Studii comunicate la conferințe/simpozioane naționale

2017

Andrea Bernath, Iulia Teodorescu, Lucreția Miu, Elena Badea, Evaluarea zonelor de preservare într-un muzeu în aer-liber, Conferința Națională de Conservare-Restaurare „Doina Darvas” editia a 10-a, CONScience 2017, 1-3 noiembrie 2017, Bucuresti, Romania

Cristina Carșote, Irina Petroviciu, Ginel Lazăr, Migdonia Georgescu, Emanuel Hadimbu, Lucreția Miu, Elena Badea, Investigarea unui document de secol XV prin metode complementare de analiză, Conferința Națională de Conservare-Restaurare „Doina Darvas” editia a 10-a, CONScience 2017, 1-3 noiembrie 2017, Bucuresti, Romania

Elena Badea, Lucreția Miu, Vivian Dragomir, Georgiana Onoiu, Iulia Anania, Utilitatea monitorizării microclimatului într-un muzeu în aer liber - proiectul Inherit, Conferința Națională de Conservare-Restaurare „Doina Darvas” editia a 10-a, CONScience 2017, 1-3 noiembrie 2017, Bucuresti, Romania

G. Ciobanu, A. G. Eliescu, *Profilul glucidic al sucurilor de portocale*, Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a IX-a, Craiova, 04 noiembrie 2017; abstract in: Annals of the University of Craiova, The Chemistry Series, 2017 Special Issue, p. 19.

Florina Ciolan, “Combinatii complexe bioactive ale cuprului (II) și cobaltului (II) cu baza Schiff derivată de la 2,2’-(propan-1,3-diildioxi)dibenzaldehida și L-tirozină”, Simpozionul Național de Chimie, Ediția a IX-a, 04 noiembrie 2017, Craiova, Annals of the University of Craiova. The Chemistry Series (număr special), pg. 28

C. Ionescu, M. Cojocaru, G. I. Stan "Analogi cu fosfor ai grupărilor fosfat în derivați glucidici și nucleotide de sinteză" Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a IX-a, 4 noiembrie 2017, Craiova, Romania.

Sbirna L. S., Sbaroi F., Aplicarea modelului SALC în studiul unei molecule triatomice liniare, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei" Craiova, 4 noiembrie 2017

Sbirna L. S., Mihalache L., Simetria orbitalilor atomici ai unei combinații complexe octaedrice, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei" Craiova, 4 noiembrie 2017

Sbirna L. S., Marin I., Anghel L., Boabele de cacao – surse de substanțe cu efect benefic în „chimia creierului, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei" Craiova, 4 noiembrie 2017

2018

Cristina Carsote, Luminita Kovari, Carmen Albu, Gabriela Dumitrescu, Emanuel Hadimbu, Elena Badea, Lucretia Miu, Legaturi de carte rara din colectiile Bibliotecii Academiei Romane. Conferinta Nationala de Conservare-Restaurare „Doina Darvas” editia a 11-a, CONScience 2018, 6-8 noiembrie 2018, Bucuresti, Romania

Duinea M., Cârâc G., Manea M., Chirita P. (2018) The Oxidativa Dissolution of FeS in the presence of Glycine solution. A 6th Edition of Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG 2017), Fifth Edition of Scientific Conference of Doctoral Schools from UDJ Galați, 7 - 8 Iunie 2018, Galați, România.

Duinea M.I., Cârâc G., Ghigu Ș., Ghejan B., Sandu A.M., Dabuleanu I., Birsa L.M., Chirita P. Inhibarea dizolvarii oxidative a monosulfurii de fier FeS. XXXV-a Conferinta Nationala de Chimie, 2018

Duinea I. M., Cârâc G., Petcu A. M., Dăbuleanu I., Simionescu A., Chiriță P. Dizolvarea oxidativa a sulfurilor metalice (MeS). A VIII-a ediție a Simpozionul Național de Chimie, Craiova, 2018.

G. Ciobanu, A. A. Boboc, *Giberelinele și stresul abiotic la plante*, Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a X-a, Craiova, 24 noiembrie 2018; abstract in: Annals of the University of Craiova, The Chemistry Series, 2018 Special Issue, p. 14.

Florina Ciolan, Anca Gănescu, Gabriela Dumitru, Elena Ionescu, “Bioactive binuclear complexes of copper (II) and cobalt (II) with a new Schiff base: 1,3-bis[ortho-(2-carboxyphenyliminomethyl)-phenoxy]propane”, Conferința Națională de Chimie, Ediția a XXXV-a, 02-05 octombrie 2018, Călimănești-Căciulata, Vâlcea

Anca Gănescu, Florina Ciolan, Gabriela Dumitru, Elena Ionescu, „Contribution to Co(III) nitrocomplexes chemistry. New analogues of $\text{NH}_4\text{Co}[(\text{NO}_2)_4(\text{NH}_3)_2]$ complex with hexamethylenetetramine”, Conferința Națională de Chimie, Ediția a XXXV-a, 02-05 octombrie 2018, Călimănești-Căciulata, Vâlcea

Florina Ciolan, “Activitatea biologică a complexilor binucleari ai Zn(II) cu trei baze Schiff derivate de la unii aminoacizi”, Simpozionul Național de Chimie, Ediția a X-a, 24 noiembrie 2018, Craiova, Annals of the University of Craiova. The Chemistry Series (număr special), pg. 26

A.Gănescu, F. Ciolan, „Noi combinații complexe chelate tetradentate mixte de Co(III) cu etilendiimino-bis-dibenzoilmetan”, Simpozionul Național de Chimie, Ediția a X-a, 24 noiembrie 2018, Craiova, Annals of the University of Craiova. The Chemistry Series (număr special), pg. 35

C. Ionescu, M. Cojocaru, G. I. Stan "Reacția Mitsunobu aplicată în serie glucidică" Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a X-a, p.17, 24 Noiembrie 2018, Craiova, Romania.

Sbirna L. S., Goga C., Determinarea formulei chimice a unui compus ionic pe baza studiului unei celule elementare din structura acestuia, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei", Craiova, 24 noiembrie 2018

Sbirna L. S., Sbaroi F., Modelarea mecanismului de acțiune al penicinelor și a mecanismelor de dobândire a rezistenței bacteriene la acestea, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei", Craiova, 24 noiembrie 2018

Sbirna L. S., Mihalache L., Ciochia C., Mecanismul pseudorotației Berry, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei" Craiova, 24 noiembrie 2018

2019

Cristina Carșote, Elena Badea, Zizi Ileana Baltă, Irina Petroviciu, Lucreția Miu, Materiale și tehnici utilizate la realizarea Codexului Altemberger. Sesiunea Științifică „Unitate, Continuitate și Independență în Istoria Poporului Român”. 101 de ani de la Marea Unire (1918 – 2019), Muzeul Național al Unirii Alba Iulia, 20 – 22 noiembrie 2019.

Carșote Cristina, Badea Elena, Caniola Iulia Maria, Păunescu Simona Maria, Lupaș Maria-Cristina, Șendrea Claudiu, Miu Lucreția, Cazania lui Varlaam: Investigarea copertei din piele. Conferința Națională de Conservare - Restaurare „Doina Darvaș” – CONScience 2019, București, 6-8 noiembrie 2019.

Duinea I. M., Cârâc G., Chirița P., The Effect of Synthesized TRIS-based Schiff on the Oxidative Dissolution of Iron Monosulfide (FeS) A 7th Edition of Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG 2019), Fifth Edition of Scientific Conference of Doctoral Schools from UDJ Galați, 13 - 14 Iunie 2019, Galați, România.

Duinea I.M., Cârâc G., Chirița P., Oxidative Dissolution of the metal sulfides (Me-S Type Materials) Using Organic Compounds A 7th Edition of Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG 2019), Fifth Edition of Scientific Conference of Doctoral Schools from UDJ Galați, 13-14 Iunie 2019, Galați, România.

G. Ciobanu, A. N. Dinte, Efecte ale expunerii plantelor de grâu la Ag⁺, Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a XI-a, Craiova, 15 noiembrie 2019; abstract in: Annals of the University of Craiova, The Chemistry Series, 2019 Special Issue, p. 14.

Florina Ciolan, Anca Gănescu, „Compuși coordinațivi biologic activi ai Ni(II) cu baze Schiff derivate de la acidul p-aminosalicilic”, Simpozionul Național de Chimie, Ediția a XI-a, 16 noiembrie 2019, Craiova, Annals of the University of Craiova. The Chemistry Series (număr special), pg. 18

Anca Gănescu, Florina Ciolan, „Complecși tiocianatocromici în analiza chimică. Determinarea coaxilului”, Simpozionul Național de Chimie, Ediția a XI-a, 16 noiembrie 2019, Craiova, Annals of the University of Craiova. The Chemistry Series (număr special), pg. 26

C. Ionescu, A. Anghel, M. Cojocaru, G. I. Stan „Antociani” Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a XI-a, Noiembrie 2019, Craiova, Romania.

A.Moanță, D. Pălărie, M.Militaru, Studiul interacțiunii proteinelor cu coloranți azoici, Simpozionul Național de Chimie, Craiova, 16 noiembrie 2019.

Sbirna L. S., Luchici T, Metoda modelării aplicată în descrierea unor procese metabolice catalizate de hidrolaze, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei", Craiova, 16 noiembrie 2019

Sbirna L. S., Goga C., Neuroteologia – o știință controversată apărută la intersecția dintre neurologie, teologie și chimie, Simpozionul National de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei" Craiova, 16 noiembrie 2019

2020

Duinea M.I., Chirița P., Cârâc G. Organic compounds with inhibitor effect in the oxidative process on metal sulphides surface. A 8th Edition of Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG 2020), Fifth Edition of Scientific Conference of Doctoral Schools from UDJ Galați, 13-14 Iunie 2020, Galați, România.

Duinea M.I., Cudulbeanu M., Chirița P., Cârâc G. Synthesis and characterization of ZnS nanoparticles for the detection of heavy metals ions. A 8th Edition of Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galați (CSSD-UDJG

2020), Fifth Edition of Scientific Conference of Doctoral Schools from UDJ Galați, 13-14 Iunie 2020, Galați, România.

G. Ciobanu, C. Ionescu, Fitotoxicitatea antibioticelor de uz clinic, Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a XII-a, Craiova, 28 noiembrie 2020. p 35.

C. Ionescu, P. Janulovski, G. Ciobanu, A. Moanță, S. C. Rizea, Investigarea analizei spectrofotometrice a metronidazolului, Simpozionul Național de Chimie, „Contribuții la Creșterea Calității Învățământului și Cercetării în domeniul Chimiei”, Ediția a XII-a, Craiova, 28 noiembrie 2020. p 33.

Sbirna L. S., Moldovan C., Predicția activității IR și Raman a modurilor normale de vibrație ale unei molecule pe baza unui studiu realizat în teoria grupurilor, Simpozionul Național de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei", Craiova, 28 noiembrie 2020

Sbirna L. S., Paraschivescu A. D., Asigurarea aferenței inverse în condițiile virtualizării actului educațional, Simpozionul Național de Chimie "Contributii la cresterea calitatii invatamantului si cercetarii in domeniul chimiei, Craiova, 28 noiembrie 2020

4.2. Studii comunicate la conferințe/simpozioane internaționale

2017

B. Tutunaru, A. Samide, R. Grecu, C. Tigae, C. Spînu, Thermal and electrochemical study of chemotherapeutic Fluorouracil drug interaction on Ti electrode surface, 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry, (CEEC-TAC4), 28-31 August 2017, Chisinau, Moldova.

B. Tutunaru, A. Samide, C. Spînu, C. Tigae, C. Neamțu, Electrochemical and thermal stability of Brown HT food additive, 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry, (CEEC-TAC4), 28-31 August 2017, Chisinau, Moldova.

B. Tutunaru, A. Samide, C. Tigae, C. Spînu, C. Neamțu, Spectroelectrochemical Studies of Interactions Between Vitamin A and Silver Nanocolloids. 20th Romanian International Conference on Chemistry and Chemical Engineering, (RICCCE 2017), 6-9 September 2017, Poiana Brasov, Romania.

Elena Badea, Cristina Carșote, Oana Andreea Miu, Ionuț Bornoiu and Daniela Ichim, Real-time diagnosis of collagen-based artworks by thermal shrinkage imaging, TECHNART 2017 (Non-destructive and microanalytical techniques in art and cultural heritage), 2 -6 mai 2017, Bilbao, Spania

Cristina Carșote, Elena Badea, Lucreția Miu, Giuseppe Della Gatta, A study of deterioration of old parchment bookbindings using thermal microscopy, micro-DSC and FTIR-ATR, 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 Thermoanalytical Conference June 6-9, 2017, Budapest, Hungary

Cristina Carșote, Elena Badea, Lucreția Miu, In situ assessment of library and archival materials by infrared spectroscopy and thermal microscopy. The case of rare books collection of the Romanian Academy Library, The 5th International Seminar and Workshop on Emerging Technology and Innovation for Cultural Heritage (ETICH 2017) with the theme Organic Artefacts: from Research to Exhibition, 13-14 septembrie 2017, Sibiu, Romania.

Claudiu Șendrea, Elena Badea, Cristina Carșote, Lucreția Miu. In situ diagnostic of parchment documents issued by Stephen the Great's chancellery using portable instruments: digital microscopes, NMR-mouse and Alpha-FTIR, The 5th International Seminar and Workshop on Emerging Technology and Innovation for Cultural Heritage (ETICH 2017) with the theme Organic Artefacts: from Research to Exhibition, 13-14 septembrie 2017, Sibiu, Romania.

Bookbindings from Teleki Bolyai: analysis for assessment of deterioration by thermal microscopy and infrared spectroscopy, Emanuel Hadîmbu, Cristina Carșote, Lucretia Miu, Krisztina Márton, Simona Păunescu, Iulia Caniola, The 5th International Seminar and Workshop on Emerging Technology and Innovation for Cultural Heritage (ETICH 2017) with the theme Organic Artefacts: from Research to Exhibition, 13-14 septembrie 2017, Sibiu, Romania.

Emma Jakab, Elena Badea, Cristina Carsote, Eszter Barta-Rajnai, Lucretia Miu, Claudiu Șendrea, Zsuzsanna Czégény, THERMAL DECOMPOSITION OF VEGETABLE TANNING AGENTS AND TANNED LEATHERS, Zoltán Sebestyén, 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference, 6-9 iunie 2017, Budapesta, Ungaria.

Dose-dependent effects of gamma irradiation on vegetable leather physical-chemical properties and structure, Elena Badea, Cristina Carșote, Claudiu Șendrea, Mădălina Ignat, Lucreția Miu, Petru Budrugeac, TECHNART 2017 (Non-destructive and microanalytical techniques in art and cultural heritage), 2 -6 mai 2017, Bilbao, Spania

Sandu A.M., Ghejan B., Duinea M.I, Carac G., Birsa L., Chirita P. (2017) The effect of 4-(5-bromo-2-hydroxyphenyl) -5-methyl-2-(morpholin-4-yl) -1,3-thiazol on the oxidative dissolution of pyrite in acidic medium. 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 2017, 6 – 9 September 2017, Poiana Brasov, Romania.

Duinea M.I, Cârâc, G., Ghejan B., Sandu A.M., Birsa L.M., Chirita P. (2017) The oxidative dissolution of pyrite in the presence of 1-(5-bromo-2-hydroxyphenyl)-1-oxaethan-2-yl-N,N-diethyldithiocarbamate. 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 2017, 6 – 9 September 2017, Poiana Brasov, Romania.

Badica C., Duinea M.I, Ghejan B., Sandu A.M., Birsa L.M., Chirita P. (2017) The oxidative dissolution of pyrite in the presence of 4-fenil-2-N-morfolinil-tiazol. 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCCCE 2017, 6 – 9 September 2017, Poiana Brasov, Romania.

Chirita P., Duinea M.I., Sandu A.M. (2017) Reaction of pyrite (FeS_2) with oxygen-bearing solution. 20th Romanian International Conference on Chemistry and Chemical Engineering, RICCCE 2017, 6 – 9 September 2017, Poiana Brasov, Romania.

E.A. Voinea, N. Cioatera, C.I. Spinu, Effect of Al doping on structure, thermal behavior and electrical conductivity of $\text{Sm}_2\text{Ti}_2\text{O}_7$ pyrochlore, 21st International Conference on Solid State Ionics (SSI-21), Padova, Italia, 18-23 iunie 2017

N. Cioatera, E.A. Voinea, S. Somacescu, C.I. Spinu, Investigation of stability and electrical properties of Ni-doped $\text{La}_4(\text{Ti}_2\text{O}_8)\text{O}_2$ cermet anode, 21st International Conference on Solid State Ionics (SSI-21), Padova, Italia, 18-23 iunie 2017

N. Cioatera, S. Somacescu, C.I. Spinu, P. Osiceanu, J.M. Calderon-Moreno, Wet-chemical syntheses of nanocrystalline nickel tungstate, Advanced Nanomaterials ANM 2017, Aveiro, Portugalia, 19-21 iulie 2017

Aurora Reiss¹, Gabriel Munteanu², Nicoleta Cioatera¹, Aurora Sălăgeanu³, Anca Gănescu¹, Irina Dăbuleanu¹, Cezar Spânu¹, Petre Rotaru¹, New mixed-ligand Co(II) and Ni(II) complexes with enrofloxacin: synthesis, spectral and thermal behavior, 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry CEEC-TAC4, 28-31 august 2017 – Chişinău, Republica Moldova

M.Leulescu, I.Pălărie, A.Hărăbor, A.Moanță, N.Cioateră, M.Popescu, E.Morîntale, P.Rotaru, Thermal behavior and physical properties of food azo dyes, biologically active, I. Tartrazine, 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry, Chişinău (Moldova), 28-31 august 2017, ISBN 978-3-940237-47-7.

M.Leulescu, I.Pălărie, A.Moanță, N.Cioateră, M.Ciocîlteu, M.Văruţ, E.Morîntale, I.Petrişor, P.Rotaru, Thermal behavior and physical properties of food azo dyes, biologically active. II. Sunset yellow, 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry, Chişinău (Moldova), 28-31 august 2017, ISBN 978-3-940237-47-7.

Puscasu, C. M.; Carja, G.; Muresanu, M.; Zaharia C, Mixed oxides derived from layered double hydroxides as novel catalysts for phenol photodegradation, 5th International Conference on Modern Technologies in Industrial Engineering (ModTech) Location: Lucian Blaga Univ Sibiu, Sibiu, ROMANIA Date: JUN 14-17, 2017

V. Parvulescu, M. Ciobanu, S. Petrescu, E.M. Anghel, C. Hornoiu, C. Munteanu and M. Muresanu, Photoelectrode materials with $\text{TiO}_2\text{-Fe}_2\text{O}_3$ nano-oxides for water treatment and energy generation, The 9 th International Conference on Advanced Materials: ROCAM 2017, Bucharest, Romania, 11-14 July 2017

M. Filip, M. Ciobanu, S. Petrescu, C. Hornoiu, M. Muresanu and V. Parvulescu, Effect of synthesis conditions on photocatalytic activity and conductivity of Ti-modified Fe_2O_3 PEC

anode materials, The 9 th International Conference on Advanced Materials: ROCAM 2017, Bucharest, Romania, 11-14 July 2017

V. Parvulescu, G. Petcu, T.Diaconu, D.Negoescu, D.Culiță, S. Petrescu, S. Preda and M. Mureseanu, Photocatalytic activity of Fe modified CeO₂/TiO₂ oxide nanomaterials in degradation of organic pollutants from wastewaters, The 9 th International Conference on Advanced Materials: ROCAM 2017, Bucharest, Romania, 11-14 July 2017

M. Mureseanu, G.Petcu, T.Diaconu, M.Ciobanu, I.Trandafir, G.Carja, V.Parvulescu, Mesoporous TiO₂ oxides templates by tri-block copolymer and modified with nano-sized CeO₂ as catalysts for photoenergy applications, The 2nd International Workshop Advances on Photocatalysis-AdvPhotoCat-E 2017, Heraklion, Greece, 14-16 July 2017

G.Carja, T.Radu, D.Gilea and M. Mureseanu, Composite of the self-assemblies of plasmonic nanoparticles-layered double hydroxides for efficient UV and solar-driven photocatalysis, The 2nd International Workshop Advances on Photocatalysis-AdvPhotoCat-E 2017, Heraklion, Greece, 14-16 July 2017

M. Mureseanu, G. Carja, R.-D. Andrei, G. Ceoana, F. Papa, V. Parvulescu, Green synthesis of LDH/g-C₃N₄/CuONP nanocomposites for high-performance photocatalysis and base catalysis, EUROPACAT 2017, Florence, Italy, 27-31 August 2017

V. Parvulescu, M. Filip, M. Ciobanu, E. M. Anghel, S. Petrescu, I. Trandafir, M. Mureseanu, Ti-doped Fe₂O₃ nanoparticles synthesized by hydrothermal treatment and their photocatalytic activity in organic compounds degradation, EUROPACAT 2017, Florence, Italy, 27-31 August 2017

M. Mureseanu, C. Spinu, I. Bleotu, I. Trandafir, V. Parvulescu, Nanohybrid Copper (II) Schiff base complex immobilized into mesoporous silica as efficient biomimetic catalyst, 8th World Congress on Oxidation Catalysis (2017), 3rd-8th September 2017 Krakow, Poland

M. Ciobanu, M. Mureseanu, M. Filip, S. Somacescu, F. Papa, G. Petcu, C. Munteanu, V. Parvulescu, Influence of synthesis conditions on activity of PtCeTi-modified SBA-15 catalysts for oxidation of organic compounds, 8th World Congress on Oxidation Catalysis (2017), 3rd-8th September 2017 Krakow, Poland

M. Ciobanu, M. Mureseanu, D.Negoescu, G.Petcu, S.Petrescu, I.Trandafir, V. Parvulescu, Rare earth effect on Ti-KIT6 photocatalytic performances in phenols degradation from aqueous solution, 8th World Congress on Oxidation Catalysis (2017), 3rd-8th September 2017 Krakow, Poland

2018

Cristina Carsote, Elena Badea, Lucretia Miu, In situ investigation of organic materials in museum objects, Conferinta CSTI 2018 Conservation Science, Technology and Industry, Bratislava, Slovakia, 7th - 9th March 2018

Elena Badea, inREACH Infrastructure for Research on Cultural Heritage in the Romanian and European Context, Conferinta CSTI 2018 Conservation Science, Technology and Industry, Bratislava, Slovakia, 7th - 9th March 2018

Elena Badea, Cristina Carsote, Claudiu Sendrea, Giuseppe Della Gatta, Micro DSC, thermal microscopy, ATR-FTIR and unilateral NMR for the characterisation of collagen-based artefacts, XXXL National Congress on Calorimetry Thermal Analysis and Applied Thermodynamics, Pisa, Italy, 17-19 December 2018

Cristina Carsote, Elena Badea, Lucretia Miu, Giuseppe Della Gatta, Micro differential scanning calorimetry (micro-DSC) and thermal microscopy (image MHT) for quantifying damage in historical leathers. The 5th International Congress on CHEMISTRY FOR CULTURAL HERITAGE (ChemCH 2018), 3-7 July 2018, Bucharest, Romania

Emanuel Hadimbu, Elena Badea, Cristina Carsote, Claudiu Sendrea, Lucretia Miu, Halloysite Nanotubes as Innovative Consolidants for Historical Leather. The 7th International Conference on Advanced Materials and Systems ICAMS 2018, 18-20 Oct 2018, Bucharest, Romania

Emanuel Hadîmbu, Elena Badea, Cristina Carşote, Lucreția Miu; Novel conservation treatments for historical leather; Comunicare orală la The 14th International Symposium "Priorities of Chemistry for a Sustainable Development" - PRIOCHEM XIV, 10-12 octombrie 2018, București, Romania

Claudiu Sendrea, Cristina Carsote, Elena Badea, Zoltan Sebestyen, Lucretia Miu, Emma Jakab, Zsuzsanna Czegeny, Damage dynamics and dose-dependent effects of gamma irradiation on vegetable tanned leather by an integrated analytical approach. The 5th International Congress on Microscopy & Spectroscopy (INTERM 2018), 24-30 April, 2018, Turkey

Cristina Carsote, Claudiu Sendrea, Elena Badea, Lucretia Miu, In-situ characterisation of historical parchments: the documents issued by the royal chancellery of stephen the great (1457–1504). The 5th International Congress on CHEMISTRY FOR CULTURAL HERITAGE (ChemCH 2018), 3-7 July 2018, Bucharest, Romania

Claudiu Sendrea, Cristina Carsote, Elena Badea, Noemi Proietti, A new effective approach to assess the degradation of historical and archaeological leather. The 5th International Congress on CHEMISTRY FOR CULTURAL HERITAGE (ChemCH 2018), 3-7 July 2018, Bucharest, Romania

Emanuel Hadimbu, Elena Badea, Cristina Carsote, Lucretia Miu, Halloysite clay nanotubes as consolidants for historical vegetable tanned and alum-tawed leather. The 5th International Congress on CHEMISTRY FOR CULTURAL HERITAGE (ChemCH 2018), 3-7 July 2018, Bucharest, Romania

Emanuel Hadîmbu, Elena Badea, Cristina Carşote, Lucretia Miu, Halloysite nanotubes as innovative consolidants for historical leather, Comunicare poster prezentată la a XXXV-a Conferință Națională de Chimie, 2-5 octombrie 2018, Căciulata, România

Duinea M.I., Cârâc G., Ghejan B., Sandu A.M., Petcu M., Birsa L. M., Chirita P. (2018) The Oxidative Dissolution of Pyrite in the Presence of New Synthesized Organic Compounds. International Conference on Chemical Engineering (ICCE) 2018.

N. Cioatera, E.A. Voinea, Cl. Spinu, Composite anode materials for SOFC applications, 5th International Conference on Materials Science & Smart Materials "MSSM 2018" August 7-10, 2018, Glasgow

N. Cioatera, E.A. Voinea, M. Osiac, WO₃-based semiconductor materials for gas-sensing applications, 5th International Conference on Materials Science & Smart Materials "MSSM 2018" August 7-10, 2018, Glasgow

M. Mureseanu, T.Diaconu, M.Ciobanu, G.Petcu, N.Cioatera, M.Ionica, V. Parvulescu, Cerium modified mesoporous titania with photocatalytic and photoelectrochemical properties, 5th International School-Conference on Catalysis for Young Scientists "Catalyst Design: From Molecular to Industrial Level" 20-23 May, 2018 Moscow, Russia

M. Ciobanu, M. Mureseanu, G. Petcu, A. Baran, S. Somacescu, F. Papa, V. Parvulescu, Synthesis dependent ceria-titania interaction and its effect on the performance of PtCeTi-SBA-15 catalysts in photodegradation of phenol from aqueous solution, 5th International School-Conference on Catalysis for Young Scientists "Catalyst Design: From Molecular to Industrial Level" 20-23 May, 2018 Moscow, Russia

2019

A. Samide, B. Tutunaru, C. Merișanu, C. Tigae, C. Spînu, Thermal analysis - an effective characterization method of polymer films formed by poly(vinyl acetate). 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry, (CEEC-TAC5), 27-30 August 2019, Roma, Italy.

A. Samide, B. Tutunaru, S. Iordache, C. Spînu, C. Tigae, Thermal characterization of metal/polymer system based on silver nanoparticles/poly(vinyl alcohol), 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry, (CEEC-TAC5), 27-30 August 2019, Roma, Italy.

A. Samide, B. Tutunaru, C. Merișanu, C. Tigae, C. Spînu, Poly(vinyl acetate) performance on carbon steel corrosion control in acid environment, 21st Romanian International Conference on Chemistry and Chemical Engineering, Constanta- Mamaia, ROMANIA - September 4 – 7, 2019.

E. Badea, C. Șendrea, C. Carșote, L. Miu, M.-C. Micu, Dose-dependent effects of gamma irradiation on collagen matrix in vegetable tanned leather. Regional Workshop on Radiation Processing for Cultural Heritage Preservation, within the Regional Project IAEA RER 1019 Enhancing Standardized Radiation Technologies and Quality Control Procedures for Human Health, Safety, Cleaner Environment and Advanced Materials, 18-22 Nov, 2019, Bucharest, Romania

C. Carșote, E. Badea, C. Șendrea, N. Proietti, Damage assessment of parchment and leather. A multi-analytical approach. 6th International Conference on Emerging Technology and Innovation for the Conservation of Cultural Heritage (ETICCH 2019), 11-13 Sept, Sibiu, Romania.

C. Carșote, E. Badea, Z. I. Baltă, I. Petroviciu, L. Miu, G. Lazar, Comparative study of two illuminated codices of the National Museum of Romanian History; The Nicodemus

Tetraevangelion and Codex Altemberger. Ink Corrosion (ICC) Conference, European Research Centre for Book and Paper Conservation-Restoration, 24-25 October 2019, Krems, Austria.

C. Carșote, E. Badea, Z. I. Baltă, I. Petroviciu, L. Miu, Scientific investigation of Codex Altemberger - The first legal code of the Transylvanian saxons in Sibiu, Matter and Materials in/for Heritage Conservation – MATCONS 2019, 8 – 12 October 2019, Craiova, Romania.

C. Șendrea, E. Badea, C. Carșote, A. Adams, The NMR MOUSE in Cultural Heritage – Study of parchment and leather. 6th International Conference on Emerging Technology and Innovation for the Conservation of Cultural Heritage (ETICCH 2019), 11-13 Sept, Sibiu, Romania.

E. Hadîmbu, E. Badea, C. Carșote, C. Șendrea, M.-C. Lupaș, The effect of halloysite nanotubes dispersions on leather thermal stability: towards a more sustainable consolidation treatment of leather artefacts. 6th International Conference on Emerging Technology and Innovation for the Conservation of Cultural Heritage (ETICCH 2019), 11-13 Sept, Sibiu, Romania.

Stănculescu, S. Vasilca, M. Virgolici, E. Pincu, P. Oancea, A. Raducan, C. Sendrea, L. Miu, E. Badea, Consolidation of very degraded wood with gamma radiation resin curing. 6th International Conference on Emerging Technology and Innovation for the Conservation of Cultural Heritage (ETICCH 2019), 11-13 Sept, Sibiu, Romania.

M.-C. Lupaș, E. Badea, M. Crudu, C. Șendrea, Sodium alginate for sustainable leather tanning. The 9th International Conference of the Chemical Societies of the South-Eastern European Countries (ICOSECS 9), May 8-11, 2019, Targoviste, Romania

E. Rebba, P. Ivanchenko, S. Bordignon, M. R. Chierotti, E. Badea, M.-C. Lupas, R.S. Evola, E. Vesce, R. Porcaro, G. Martra, Nanomaterials for sustainable leather products. 16th International Conference on Nanosciences & Nanotechnologies (NN19), July 2-5, 2019, Thessaloniki, Greece.

E. Badea, C. Carsote, C. Sendrea, L. Miu, Degradation of historical parchment and leather: a multi-analytical approach. Heritage Science and Technologies. Frontiers in Heritage Science. World Meeting, 14-16 feb, 2019, Paris, France

E. Badea, C. Sendrea, C. Carsote and A. Adams, Degradation of historical leather: non-destructive analysis by the NMR-MOUSE. TECHNART 2019, 7-10 May, 2019, Bruges, Belgium

C. Carsote, E. Badea, C. Sendrea, N. Proietti, Multi-analytical approach towards damage assessment of parchment and leather. TECHNART 2019, 7-10 May, 2019, Bruges, Belgium

I.-M. Caniola, S. M. Păunescu, C. Carșote, R. Tiño, K. Vizárová, E. Badea, Effects of Low-Temperature Plasma on Parchment – Towards a New System for Cleaning and Decontamination of Historical Parchments. The 9th International Conference of the Chemical Societies of the South-Eastern European Countries (ICOSECS 9), May 8-11, 2019, Targoviste, Romania

M.-C. Lupaş , E. Badea , M. Crudu , C. Şendrea , C. Carşote Interaction of collagen with natural compounds and nanoparticles in leather making process – a micro DSC study. Summer School and Workshop in Calorimetry and Thermal Analysis 2019 - Calorimetry and thermal methods in material science, June 16 - 21, 2019 Lyon, France.

Duinea M.I., Carac G., Birsa L.M., Chirita P. (2019) Efficient oxidation of metal sulfides using tris-based Schiff to construct advanced electrode active materials. 21st Romanian International Conference on Chemistry and Chemical Engineering, Constanta- Mamaia, ROMANIA - September 4 - 7, 2019.

Chirita P., Duinea M.I. (2019) Troilite oxidative dissolution. 21st Romanian International Conference on Chemistry and Chemical Engineering, Constanta- Mamaia, ROMANIA - September 4 - 7, 2019.

Nicoleta Cioateră, Maria Bădin, Mădălina Matei, Alex Salan, Horia Manolea, Laurențiu Mogoantă, Cezar-Ionuț Spînu, Structural Challenges of Zirconia-Based Biomaterials, International Seminar on Biomaterials and Regenerative Medicine, Craiova, 26-28 sept. 2019

A.Reiss,N.Cioatera,A.Dobritescu,M.Rotaru,M.Diunea,A.C.Carabet, Anca Ganescu, Petre Rotaru, New biologically active Co(II),Ni(II) and Cu(II) complexes containing a tridentate ONN sulfathiazole-based Schiff base.Synthesis, spectral study and thermal behaviour, CEEC-TAC5&Medicta 2019, 5-th Central and Eastern European Conference on Thermal Analysis and Calorimetry and Calorimetry and Thermal Analysis,27-30 August 2019 Roma-Italy

C.A.Carabet, A.Moanta, I.Palarie, M. Leulescu, G.Iacobescu, M.Popescu, P.Rotaru, Thermal stability, physical properties and biological activity of bis [(phenyl azo) biphenyleneoxymethylene] anthracene, 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry, Roma (Italia), 27-30 august 2019, ISBN 978-3-940237-59-0.

M.Leulescu, G.Iacobescu, A.Rotaru, I.Palarie, A.Moanta, N.Cioatera, M.Popescu, E.Morintale, M.Bojan, P.Rotaru, Thermal behaviour, spectral properties, optical anisotropy and biological activity of Azorubine, 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry, Roma (Italia), 27-30 august 2019, ISBN 978-3-940237-59-0.

V. Chivu, M. Mureseanu, T. Diaconu, M. Ciobanu, N. Cioatera, M. Ionica, V. Parvulescu, New electrodes based on mesoporous Ce-doped TiO₂ for simultaneous wastewater treatment and electricity generation, The 12 th International Symposium of the Romanian Catalysis Society (RomCat2019), Bucuresti (Romania), 05-07 June, 2019

M.Filip, G.Petcu, E.M.Anghel, S.Petrescu, S.Somacescu, N.Stanica, C.Munteanu, M.Mureseanu, V.Parvulescu, FeTi- SBA-15 magnetic nanocomposites with photocatalytic properties, The 12 th International Symposium of the Romanian Catalysis Society (RomCat2019), Bucuresti (Romania), 05-07 June, 2019

V. Chivu, D.Gilea, N.Cioatera, G.Carja, M. Mureseanu Heterostructures of Ce-Ti/layered double hydroxides and derived MMOs for photoenergy applications, 3rd International Conference on Applied Surface Science , Pisa (Italy), 17-20 June 2019

2020

Elena Badea, Cristina Carsote, Claudiu Sendrea, Noemi Proietti, Valeria Di Tullio, Archaeological leather degradation: an experimental approach using ATR-FTIR, Micro DSC, Solid state and Unilateral NMR, Conference “EAA 2020 Virtual Annual Meeting”, Budapest, Hungary, 24-30 August 2020; <https://www.e-a-a.org/EAA2020virtual>

Maria-Cristina Micu, Lucreția Miu, Cristina Carșote, Simona Maria Păunescu, Iulia Maria Caniola, Elena Badea, Characterization of archaeological leather. A multi-technique approach for a case study involving medieval artefacts from Romania and Ukraine, Conference “EAA 2020 Virtual Annual Meeting”, Budapest, Hungary, 24-30 August 2020; <https://www.e-a-a.org/EAA2020virtual>

Elena Badea, Emanuel Hadimbu, Simona Paunescu, Maria Cristina Micu, Cristina Carsote, Nanoparticles for cultural heritage conservation: halloysite nanotubes and magnesium oxide nanoparticles for modern leather consolidation. Simpozionul National De Chimie Cu Participare Internationala, Editia a 12-a, Craiova, 28 noiembrie 2020

The 8th International Conference on Advanced Materials And Systems - ICAMS 2020, Bucharest, Romania, 1-3 October 2020

- i. Simona-Maria Paunescu, Emanuel Hadimbu, Iulia-Maria Caniola, Maria-Cristina Micu, Cristina Carsote, Claudiu Sendrea, Lucretia Miu, Elena Badea, Physical-chemical and morpho-structural characterization of modern alum-tawed leather treated with various halloysite nanotubes dispersions.
- ii. Iulia-Maria Caniola, Cristina Carsote, Simona-Maria Păunescu, Maria-Cristina Micu, Elena Badea, A glimpse into the past: the investigation of a XVII century parchment document from the National Museum of Romanian History.
- iii. Claudiu Șendrea, Maria-Cristina Micu, Emanuel Hadimbu, Simona Maria Păunescu, Iulia Maria Caniola, Madalina Ignat, Lucretia Miu, Elena Badea Micro DSC and NMR mouse studies of collagen–vegetable tannin interaction mechanism during leather making.
- iv. Maria-Cristina Micu, Elena Badea, Marian Crudu, Claudiu Șendrea, Cristina Carșote, Simona Maria Păunescu, Iulia Maria Caniola, Interaction of collagen with natural compounds and nanoparticles in leather making process.
- v. Lucreția Miu, Simona-Maria Păunescu, Maria-Cristina Micu, Iulia-Maria Caniola, Madalina Ignat, Claudiu Șendrea, Elena Badea, Chemical and physico-mechanical characterizations of leather for restoration.
- vi. Lucreția Miu, Mariana Giurginca, Iulia-Maria Caniola, Maria-Cristina Micu (Lupaș), Simona-Maria Păunescu, Claudiu Șendrea, Elena Badea, Chromatic assessment of newly manufactured leather and parchment for museum purposes.
- vii. Lucreția Miu, Rodica Roxana Constantinescu, Alpaslan Durmuş Kaya, Emanuel Hadimbu, Claudiu Șendrea, Maria-Cristina Lupaș, Simona Maria Păunescu, Iulia Maria Caniola, Elena Badea, Aspects regarding the effectiveness of volatile oils of the *Tanacetum vulgare* kind in the conservation of heritage objects.
- viii. Madalina Ignat, Lucretia Miu, Emanuel Hadimbu, Claudiu Șendrea, Maria-Cristina Micu, Simona Maria Păunescu, Iulia Maria Caniola, Elena Badea, The influence of TiO₂ and N-TiO₂ nanopowders in natural leather finishing for heritage or modern binding.

5. Proiecte de cercetare pe bază de contract/grant obținute prin competiție

5.1. Proiecte de cercetare pe bază de contract/grant obținute prin competiție internațională

2021-2023 - Eureka Network project: Biodegradable and antimicrobial retanning agent and coating for ecological and safe leather (BioSafe Leather). PN-III-P3-3.5-EUK-2019-023/15.03.2020.

2018-2020 – Eranet Cofund Manunet III project: Innovative materials and technologies for sustainable leather manufacturing for automotive (InSuLa, contract 37/2018).

2017 – 2019 - Eureka Network project: Sustainable low-temperature plasma technologies for cleaning historical & archaeological artefacts from natural polymers (SUSPLART E!9975/2017).

5.2. Proiecte de cercetare pe bază de contract/grant obținute prin competiție națională

2018 - Innovation Checks project: Natural Leather for Contemporary Design (Leather CoDe, PN-III-P2-2.1-CI-2018-1028, contract no 176CI/2018).

2017-2018 - Romanian Applied Research Programme PNCDI III, Demonstrative Projects: Innovative methods for the preservation of collagen-based artworks (KOLLART, PN-III-P2-2.1-PED-2016-1491).

2016-2019 - Research in Strategic Domains (space, nuclear) Programme (CEA-RO): Nuclear techniques for the conservation of wooden heritage objects (NUTEKO, Contract no. C5-11/2016.)

Proiect PED nr. 75/2017 cu tema ”Materiale anodice evaluate pentru îmbunătățirea performanței și durabilității SOFC (ExPAND)”

Grant de mobilitate pentru cercetători PNIII MC nr. 288/2019

”Sistem fotocatalitic integrat pentru decontaminarea apei și producerea de electricitate”
PN-III-P2-2.1-PED-2016-0473