

Indicators of results

Technical University of Cluj Napoca - CO

Articles published or under evaluation in ISI ranked journals:

1. A. Peter, L. Mihaly Cozmuta, A. Mihaly Cozmuta, C. Nicula, W. Ziemkowska, D. Basiak, V. Danciu, L. Baia, A. Vulpoi, G. Craciun, A. Falup, Chemical, mechanical and structural characteristics of the paper modified with Ag/TiO₂-SiO₂, Ag/N-TiO₂ and Au-TiO₂, respectively, submitted to Nordic Pulp and Paper Research Journal, IF = 1.22
2. A. Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, C. Nicula, C. Cadar, A. Jastrzębska, P. Kurtycz, A. Vulpoi, T. Radu, V. Danciu, L. Baia, Silver functionalized titania-silica xerogels: preparation, morpho-structural and photocatalytic properties, kinetic modeling, under work, intention to be submitted to Materials Chemistry and Physics.
3. A. Mihaly Cozmuta, A. Peter, L. Mihaly Cozmuta, C. Nicula, L. Crisan, L. Baia, I. Vagelas - Active packaging system based on Ag/TiO₂ nanocomposite used for wheat bread storage. Chemical and microbiological investigations, under evaluation in Packaging Technology and Science, id no. / 2014.
4. R. Apan, A. Mihaly Cozmuta, A. Peter, C. Nicula, L. Mihaly Cozmuta, ACTIVE FOOD PACKAGING BASED ON NANOMATERIALS: FROM LABORATORY RESEARCH TO RISKS AND REGULATIONS ASPECTS, Amfiteatru Economic, Vol XVI • No. 36 • May 2014, 483-500.

Articles published in Indexed Data Bases:

1. C. Nicula, A. Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, THE UPTAKE OF HEAVY METALS IN *Phaseolus vulgaris* AND *Zea mays* SEEDS HARVESTED FROM POLLUTED AND UNPOLLUTED AREAS, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 1-8.
2. A. Peter, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula, NANOSENSOR BASED ON TiO₂ FOR DETECTION OF OXYGEN IN DAMAGED VACUUM PACKAGES, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 9-12.
3. A. Mihaly Cozmuta, A. Conea, A. Peter, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula, STUDY THE INFLUENCE OF WORK PARAMETERS ON THE LEACHEABILITY OF MINERAL ELEMENTS INTO THE COFFEE INFUSION, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 23-35.
4. C. Nicula, M. Sisestean, A. Mihaly-Cozmuta, A. Peter, L. Mihaly-Cozmuta, NITRATE AND NITRITE CONTENT IN VARIOUS TYPES OF CUCUMBERS AND OPTIONS TO REDUCE IT, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 36-44.
5. Anca Peter, Loredana Roatis, Anca Mihaly Cozmuta, Leonard Mihaly Cozmuta, Camelia Nicula, COMBINED USE OF PAPER OR LDPE AND NATURAL EXTRACTS FROM SATUREJA HORTENSIS AND ALLIUM SATIVUM FOR THE PRESERVATION OF THE SUMMER SALAME", *Carpathian Journal of Food Science and Technology*, vol 4, nr. 2, 2012, 18-27.

International Conferences:

1. Anca Mihaly Cozmuta, Anca Peter, Leonard Mihaly Cozmuta, Camelia Nicula, Calin Cadar, *Active packaging system based on Ag/TiO₂ nano-composite applied in preserving the wheat bread during storage. I. Changes in physical parameters*, The 4th International Conference on Food Chemistry, Engineering & Technology, May 30 – 31, 2013, Timișoara-Romania, pp. 34.
2. Calin Cadar, Anca Mihaly-Cozmuta, Anca Peter, Camelia Nicula, Leonard Mihaly-Cozmuta, Marius Metenti, Ag/TiO₂ based on nanomaterials used in food preservation, 13th international Symposium and Summer school on Bioanalysis, P3, Debrecen, Hungary.

Web-page of the project:

<http://chimie-biologie.ubm.ro/smartpack/index.html>

Warsaw University of Technology – P3

ISI article:

1. W. ZIEMKOWSKA, D. BASIAK, P. KURTYCZ, A. JASTRZĘBSKA, A. OLSZYNA, A. KUNICKI, Nano-titanium oxide doped with gold, silver and palladium – synthesis and structure characterization, *Chemical Papers*, 68 (7) 959–968 (2014), DOI: 10.2478/s11696-014-0537-7

International and national conferences:

1. 1th Polish Forum of Inorganic Chemistry, Krakow (Poland), 6-8.12.2012, Title: Synthesis and characterization of nanotitanium oxide doped with gold, silver and palladium as a material with potential antibacterial activity, Authors: D. Basiak, W. Ziemkowska, A. Olszyna, P. Kurtycz, E. Karwowska, E. Miałkiewicz-Pęska (poster, polish)

2. Xth Warsaw Doctorate Students Seminar – ChemSession'13, Warsaw, 17.05.2013, a) title: Synthesis and Characterization of Nano-titanium Oxide Doped With Noble Metals, authors: D. Basiak, W. Ziemkowska, A. Olszyna, P. Kurtycz, R. Piramidowicz, A. Jusza, K. Anders (poster, polish); b) title: Application of Transmission Electron Microscopy (TEM) for Characterization of TiO₂ Photocatalysts Doped with Ag, Au, Pd, authors: P. Kurtycz, D. Basiak, A. Jastrzębska, W. Ziemkowska, A. Olszyna (poster, polish), c) title: Study of nano-titania ecotoxicity, authors: M. Rucińska, E. Karwowska, E. Miałkiewicz-Pęska, M. Załęska Radziwiłł, P. Kurtycz, A. Olszyna, D. Basiak, W. Ziemkowska (poster, polish)

3. XXIV International Conference on Coordination and Bioinorganic Chemistry, Smolenice (Slovakia), 2-7 June, 2013, a) title: Synthesis and Characterization of Nanosized Titania Doped with Noble Metals, authors: D. Basiak, W. Ziemkowska, A. Olszyna, P. Kurtycz, R. Piramidowicz, A. Jusza, K. Anders (poster), b) title: Nano-titanium Oxide Doped with Gold, Silver and Palladium – Synthesis, Morpho-Structural Characterization and Ecotoxicity, authors: W. Ziemkowska, D. Basiak, P. Kurtycz, A. Olszyna, A. Jastrzębska, E. Karwowska, E. Miałkiewicz-Pęska, M. Załęska Radziwiłł (lecture)

Babes-Bolyai University of Cluj Napoca – P1

ISI article:

1. V. Iancu, M. Baia, L. Diamandescu, Zs. Pap, A.M. Vlaicu, V. Danciu, L. Baia, Weighting the influence of TiO₂ anatase/brookite ratio in TiO₂-Ag porous nanocomposites on visible photocatalytic performances, *Materials Chemistry and Physics* xxx (2013) 1-6, <http://dx.doi.org/10.1016/j.matchemphys.2013.05.005>.