

International Conference on Applications of Radiation Science and Technology

Thursday, 27 April 2017

P-A2: Radiation Creation of Materials from Fundamentals to Application - IAEA Board Room B/M1 (14:15 - 16:15)

-Conveners: TSec Agnes Safrany; Laszlo Wojnarovits

[id] title	presenter	board
[1] Effect of Gamma Radiation on the Physico-Mechanical Properties of Gelatin-Based Films and Jute-Reinforced Polymer Composites	Mr MOLLAH, Mohammad Zahirul Islam	
[401] A Comparative Study of Radiation Sterilization of Cell Culture Media and Filtration Sterilization Method in Cell Culture Laboratory	Ms MAHMOUD, Alkhansa	
[155] Radiochemical Stability and Life Time of LDPE-Based Flexible Composite Filled with Ce-Doped PZT-PbZrTiO ₃	Mr ZAHARESCU, Traian	
[189] Optimization of Electron Beam-Induced Synthesis of Polypropylene-g-poly(Glycidyl Methacrylate) for Cr(VI) and Cd(II) Adsorption Using Full Factorial Design	Mr MADRID, Jordan	
[256] Structural Characterization, Antibacterial Properties and Cytotoxicity of γ -Irradiation Synthesized Ag-poly(N-isopropylacrylamide/itaconic acid) Hydrogel Nanocomposites	Ms KAČAREVIĆ-POPOVIĆ, Zorica	
[341] Radiation Synthesis of Acrylic Acid onto Poly(tetrafluoroethylene-perfluorovinyl ether) Film: Chemical Modifications and Electrical Conductivity	Mr EL-SAWY, Naeem	
[344] Ionizing Radiation Engineered Functional Nanogels for Biomedical Applications	Ms MOHD JANIB, Siti	
[294] Influence of the Coolant Chemistry on the Structural Materials Surfaces Exposed into the Candu NPP Primary Circuit	Ms LUCAN, Dumitra	
[272] Nanocarbon Based PolyLY(Ethylene-Terephthalate) Nanocomposites and Various Irradiations	Ms PUCIĆ, Irina	
[278] Low Dimensional Nanomaterials-Based Interfacial Engineering in Organic Solar Cells	Mr YU, Seunggho	
[103] Shelf Life Assessment of Sliced Bread by Sorbic Acid Based Active Film	Ms SHUKRI, Nor Azwin	
[105] The Effect of Radiation Environment on Electrical Insulation Materials	Mr EISAWY, Ezzat	
[235] Metal Surface Modification with Fatty Acids Using Ionising Radiation	Ms MARUSIC, Katarina	
[36] Functional Properties and Ecotoxicity of Bionanocomposites Based on PHBV/PLA Blend under Electron Beam Irradiation	Ms KACI, Mustapha	
[332] Irradiation Effects on Structure and Spectroscopic Properties of Sugar Doped Sol-Gel Silica.	Ms MARZOUKI, Kaouther	
[6] Preparation of Selective Hazardous Metal Ion Adsorbents from Acrylic Monomer Grafted PET Films	Ms RAHMAN, Nazia	
[92] Synthesis and Characterization of PP Films Rich in Primary Amines for Cell Cultures, by Gamma Radiation	Ms PÉREZ-CALIXTO, Mitzi Paulina	
[238] Ionizing Radiation as a Tool to Affect Polymer Biodegradation	Ms NEGRIN, Maddalena	

[237] Fabrication of Advanced Soft Magnetic Nanomaterials Using the Radiation	Mr YU, Seungho	
[230] Investigations on Immobilizing Anthocyanin and Betacyanin onto Polyethylene Films	Ms SHAYANFAR, Shima	
[133] Predicting the Behavior of a Biomaterial as Bone Replacement	Ms ANESSI, Maria Carolina	
[139] Monodispersed Polypyrrole Nanoparticles Prepared via Water Padiolysis and their Photothermal Therapy on Cancer Cells	Mr GE, Xue Wu	
[138] γ-Ray-Radiation-Scissioned Chitosan as a Gene Carrier and its Improved in vitro Gene Transfection Performance	Ms WANG, Mozhen	
[26] Swelling and Drug Release Kinetics of Polyacrylamide/Sodium Alginate Copolymer Hydrogels Synthesized by Gamma Irradiation	Ms NIZAM EL-DIN, Horia	
[409] Recycled HDPE/Vulcanized EPDM Mixtures Obtained by Irradiation Processes	Ms CARDOSO, Jessica	
[392] Lifetime Study of Electronic Devices for Extreme Radiation Conditions	Ms SAGATOVA, Andrea	
[390] Developing a Simple Method Using Ionizing Radiation to Produce Polyacrylic Acid Based Nanoparticles	Mr ABDELREHIM, Hassan	
[82] Functionalization of Polypropylene Films with Glycidyl Methacrylate by Gamma Radiation	Ms ORTEGA, Alejandra	
[172] Development of Nanocomposite Coatings by Radiation Curing	Mr NIK SALLEH, Nik Ghazali	
[170] Gamma Radiation Enhancement of Photocatalytic Activity of Conducting Polyaniline–TiO₂ Nanocomposites for Degradation of Methyl Orange Dye under Visible Light Irradiation	Ms ISMAIL, Sahar	
[180] In-situ Deposition of Nanohydroxyapatite within N,O-Carboxymethylchitosan/Polyvinylpyrrolidone Hydrogels: Characterization and Bioactivity Evaluation	Ms RAAFAT, Amany	
[188] Radiation – Induced Oxidation in Gamma-Irradiated UHMWPE Modified with Hydroxyapatite	Mr LUNGULESCU, Eduard-Marius	
[11] Effect of γ-Irradiation on the Molecular Weight and Structure of Guar Gum	Ms SAYED, Hoiam	
[13] Evaluation of Thorium Adsorbent Prepared by Radiation Grafting and Functionalization with Glucamine	Mr TING, Teo Ming	
[208] The Effect of Natural Antioxidants in Thiyl Radical-Induced Lipid Modification Processes	Ms TARTARO BUJAK, Ivana	
[75] Effect of Spatial Confinement on the Radiolytic Efficiency of High-Energy Ions in Polymers	Mr PAPALÉO, Ricardo	
[124] Nanogels of Polyvinylpyrrolidone Obtained by Gamma Radiation. Physicochemical and Biological Characterization	Mr RAPADO PANEQUE, Manuel	
[126] Radiation Development of (Polyvinyl Pyrrolidone/Acrylic Acid)- Silver Nanocomposite for the Disposal of Phenolic Compounds from their Aqueous Solutions	Ms MAHMOUD, Ghada	
[412] Development of Advanced Scaffolds and Polymeric Systems for Improved Cell and Tissue Growth	Mr VARCA, Gustavo Henrique Costa	
[413] Correlation of Traditional and One-Step Irradiation Process for Chitosan Production from Charybdis Hellerii Crab Shell's	Ms SALLA FERREIRA, Maiara	
[252] Electron Beam Synthesis of Inulin Hydrogels Extracted from Helianthus Tuberosus L.	Mr CALINA, Ion Cosmin	
[165] Decoloration and Degradation of Erythrosine by Gamma Irradiation	Ms ZAOUAK, Amira	

[257] Distinct Polymeric Based Materials Prepared/Functionalized by Gamma Irradiation for Biomedical Applications and Roman Mosaics Preservation	Mr FERREIRA, Luis M.	
[254] Morphological, Physico-Chemical and Mechanical Properties of Radiolytically Synthesized Nano-Ag/poly(N-isopropylacrylamide) Hydrogels	Ms RADOSAVLJEVIĆ, Aleksandra	
[169] Synthesis by Gamma Radiation and Characterization of Poly(Vinylpyrrolidone) Nanogel	Mr AGUILERA-CORRALES, Yuri	
[167] Determination of the Radiation Dose Required to Obtain Desired Viscosity Average Molecular Mass Using Commercially Available Chitosan and Signification of this Technique in its Applications	Mr DE SILVA, Kumarawadu Ruwan Chandima	
[162] In-Situ Compatibilization of Polyblends and Polymer Based Composites Induced by γ-Irradiation	Mr YIN, Yuan	
[9] The Hormetic Effect of X-rays on Biosynthesis of Gold Nanoparticles by Actinobacteria.	Ms SAGHATCHI, Faranak	
[352] Studying the Biological Efficacy of Radiation-Treated Radiolabeled DOTA-Bombesin-Decorated Nanoconstructs as Potential Nanosized Drug Delivery Systems	Mr KHAN, Irfan Ullah	
[214] Biopolymer-Silver Nanoparticle as a CIELAB Colour Space Dosimeter	Mr PIROONPAN, Thananchai	
[210] Radiolytical Synthesis and Mechanism of Gold Nanoparticle Formation	Ms JURKIN, Tanja	
[218] Synthesis of Crosslinking Films Based of 3-(Trimethoxysilyl) Propyl Methacrylate Silanized Xanthan Gum/Lignin and their Crosslinking by Gamma Radiation, to Potential Application and Films Packing	Ms GARCIA-URIOSTEGUI, Lorena	
[261] Mechanical Characteristics and Antibacterial Properties of Ag-Poly(Vinyl Alcohol)/ws-Chitosan Hydrogel Nanocomposites Synthesized by γ-Irradiation Combined with Freeze/Thaw Cycles	Ms KRSTIĆ, Jelena	
[269] Obtention and Characterization of Gamma Irradiated Recycled HDPE/EPDDM Blends	Ms GERALDO, Aurea	
[58] Dyestuff Free: Coloring Fabrics by Graft Polymerization	Mr LI, Jingye	
[115] γ-Ray Induced Reduction and Modification of Graphene Oxide	Ms MA, Hui-Ling	
[119] Chemical Reduction of Nitrate by Zerovalent Iron Nanoparticles Adsorbed Radiation Grafted Copolymer Matrix	Ms RATNAYAKE, Sanduni	
[301] Application of Gamma Radiation and Physicochemical Treatment to Improve the Bioactive Properties of Chitosan Extracted from Shrimp Shell	Mr PRAMANIK, Md. Kamruzzaman	
[221] Sorption of Iodine on Ion Exchange Resins	Ms FARAHAT, Noha	
[47] Simultaneous Radiation Grafting of Acrylic Acid on Polypropylene Films: Optimization, Biodegradability and Evaluation of Ecotoxicological Impact	Mr BHUNIA, Haripada	