

**P01 09:00 – 17:30 Radiation for a Better Life and Cleaner Environment**Venue: *M-Building*Chair: **Luis M. Ferreira (Portugal)**Chair: **Mohammad Haji-Saeid (USA)**

ID	Presenter		
14	A. Zaouak	Tunisia	Removal of Losartan and Methocarbamol Two Emerging Pollutants From Aqueous Solution Using Gamma Irradiation
62	M. C. Cingolani	Argentina	Alternative Disposal of a Hazardous Waste Using Ionizing Radiation
63	P. Bustamante	Argentina	Evaluation of the Protective Effect of Hydrogels on Irradiated Ciprofloxacin with Gamma Radiation
68	M. N. Ciávaro	Argentina	Effects of Gamma Radiation on a Composite Material for Biomedical Applications
87	Z. Habib	Sudan	Assessment of Radioactivity in Milk and Dairy Products in Sudan
105	S. Masic	Serbia	Use of High-Energy Gamma Radiation for Neutralization of Acrylamide From Waste Sludge Generated in Drinking Water Treatment Plant
115	A. Al Dabbas	Jordan	Corrosion of ISG Used for High Radioactive Waste Vitrification Influenced by Ankerite: Short Duration at 25 and 90 °C
151	L. Coretchi	Rep. of Moldova	The Use of Modern Technologies in Indoor Radon Research in the Republic of Moldova
177	<b>F. C. Nascimento</b> , W. A. P. Calvo	Brazil	Paint the Acrylic Emulsion Base Added With Cellulosic Dispersion Treated by Electron Beam Processing
182	D. Chmielewska-Śmietanko	Poland	Application of Electron Beam Irradiation for Inactivation of Invasive Marine Species and Harmful Bacteria in Ballast Water
193	G. E. Lopez	Philippines	Ethylenediamine Ligand Assisted Synthesis of Palladium Clusters via Gamma Radiation
194	B. J. Barba	Philippines	Grafting of Poly(glycidyl methacrylate) onto Abaca Woven Fabric as Interface Compatibilization for Composite Reinforcement
200	P. J. Cabalar	Philippines	Electron Beam-Induced Synthesis of Amine and Carboxylic Type Adsorbents From Abaca-Polyester Fabric via Pre-Irradiation Technique for Pb(II), Ni(II), and Cd(II) Ion Adsorption
203	<b>P. M. Munhoz</b> , W. A. P. Calvo	Brazil	Influence of Electron Beam Irradiation on the Degree of Crystallinity of Polymeric Blend of PBAT/PLA
219	M. Ghobashy	Egypt	Optimal the Mechanical Properties Of algae-(Lactic acid-Starch) Bioplastic Blend with EVA-EPDM using Gamma Irradiation and Their Possibility to
224	K. Cho Cho	Myanmar	Isotopic and Hydrochemical Characteristics of Groundwater and Surface Water in Kyaung Gon Area, Ayeyarwaddy Division, Myanmar
247	M. Suhartini	Indonesia	Radiation Copolymerization of Cellulose Acetate-Polyethylene Glycol 200: Synthesis and Characterization
256	K. Nasr Ep Kachroudi	Tunisia	Gamma Radiolytic Removal of Some Carbamate Insecticides in Aqueous Solution
275	A. I. H. R. Hassan	Egypt	Hemostatic and Bactericidal Efficacy of Radiation Synthesized Hydroxyethyl Cellulose-Based Sponge Hydrogels Assisted Some Medicinal Plants Extract
323	S. M. A. Sayed	India	Application of Hard and Soft Acid Base Theory on Sorption Studies of Radionuclides– <sup>137</sup> Cs and <sup>60</sup> Co

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329	Ž. Knežević Medija	Croatia	Overview of Passive Dosimetry for Environmental Monitoring in the Aftermath of a Nuclear and Radiological Event in the Framework Of EMPIR-16ENV04 PREPAREDNESS Project
351	T. Jurkin	Croatia	Experimental Factors That May Influence the $\gamma$ -Irradiation Synthesis of Magnetic Iron Oxide Nanomaterials
357	N. Elgendy	Egypt	Using Natural Organic Polymer During Irradiation by Electron Beam for Removing Some Metal Ions From Water
371	T. Rattanawongwiboon	Thailand	Radiation-Induced Grafting of Glycidyl Methacrylate Onto PE/PP Non-woven Fabric and Its Modification With Iminodiacetic Acid for Removing a Used Solid Catalyst
382	R. Homlok	Hungary	Presence of Antibiotics on the Population Ratio of Resistant/Sensitive Bacterial Cultures in Model Wastewater Matrix
386	M. H. Bui	Viet Nam	Degradation of Enrofloxacin From Aqueous Solution by Electron Beam Irradiation
388	L. Mandić	Croatia	Gamma-Radiolytic Degradation of Rosuvastatin in Aqueous Solution
396	M. M. Zaw	Myanmar	Development of Wound Dressing Crosslink PVP Hydrogels by Using Gamma Radiation
407	G. Tataru, X. Coqueret	France	Radiation-Induced Modification of 3D-Printed Materials
413	M. Nasef	Malaysia	Radiation Induced Grafting of Vinylbenzyl Chloride Onto Polyethylene/Polypropylene Nonwoven Sheets for CO <sub>2</sub> Adsorbent
422	S. Pillai	USA	Response of Algal Toxin Producing Cyanobacteria (Microcystis aeruginosa) and the Algal Toxin, Microcystin-LR to Electron Beam Irradiation Doses
434	M. Rzepna	Poland	Impact of Electron Beam Treatment on Aliphatic Biodegradable Polyesters for Medical Application
443	A. Genc	Türkiye	The Effect of Gamma Irridation on Efficiency of A2-O MBR Treating Coking Wastewater
447	M. Walo	Poland	Functionalization of Polymers Dedicated to Gas Separation Applications by Radiation-Induced Grafting
463	A. Ponomarev	Russian Federation	Challenges and Features of Large-Scale Radiation Technologies for Environmental Purposes
471	J. Madrid	Philippines	Radiation-Induced Controlled Polymerization Synthesis of Graft Copolymers as Base Material for a Transesterification Catalyst
474	A. Ponomarev	Russian Federation	Radiation-Induced Pathways of Cellulose Degradation
478	H. Abd El-Rehim	Egypt	Improvement the Solubility of Poor Water-Soluble Clarithromycine Drug Using PVP/AAc Nano-Carriers Prepared by Radiation For Topical Acne
482	D. Şolpan Özbay	Türkiye	Toughening of Thermoplastics by Using Radiation-Grafted Waste Rubber Crumbs
483	D. Xiao	China	Sustainable Reactive Electron Treatment for Recycling of Polymer Waste
486	E. Kholodkova, A. Ponomarev	Russian Federation	High-Temperature Conversion of Lignin to Phenols Upon Irradiation
487	E. Kholodkova, A. Ponomarev	Russian Federation	Radiation Degradation of Nitrogen-Containing Dyes and Explosives in Aqueous Solutions