

Scientific Program

4th International Webinar on Polymer Science & Biomaterials

Thursday
April 07, 2022

Day 1 - April 07, 2022

10:00 - 10:15 Introduction

Oral Presentations

- 10:15 - 10:35 Achieving dendritic cell subset-specific targeting *in vivo* by site-directed conjugation of targeting antibodies to nanocarriers
Michael Fichter, University Medical Center of the Johannes Gutenberg University Mainz, Germany
- 10:35 - 10:55 Circularity of complex plastic waste: Potential high value-added products
Mercedes Santiago-Calvo, Foundation for Research and Development in Transport and Energy (CIDAUT), Spain
- 10:55 - 11:15 Development and manufacture of a composite material with recycled textile fiber and a polymeric matrix for building exhibition furniture
Cristina Alía, Polytechnic University of Madrid, Spain
- 11:15 - 11:35 Natural with synthetic blending enhance electrospun scaffolds performance for tissue engineering applications
Maria Bikuna-Izagirre, TECNUN School of Engineering, University of Navarra, Spain
- 11:35 - 11:55 On-demand electric stimulation for antibacterial and bio-favorable effect through biodegradable nanotextured piezoelectric polymer
Lea Gazvoda, Jožef Stefan Institute, Slovenia
- 11:55 - 12:15 Non-stationary resonant light scattering by subwavelength particles
Michael I. Tribelsky, Lomonosov Moscow State University, Russia

Poster Presentations

- 12:15 - 12:30 Study on fabrication of PVA-chitosan nanofibers from aqueous solution with acetic acid and ethanol by electrospinning method
Thi Hong Nhung Vu, Chemical Engineering Centre, ITMO University, Russia
- 12:30 - 12:45 Chemical recycling of polyethylene terephthalate under microwave irradiation via green sequential glycolysis-hydrolysis processes
Olivia A. Attallah, Technological University of the Shannon Midlands Midwest, Ireland

Lunch (12:45 - 13:15)

Oral Presentations

- 13:15 - 13:35 Novel materials based on nonideal supercrystal formed by 1D array of microcavities containing ensembles of quantum dots
V.V. Rumyantsev, A.A. Galkin Institute for Physics & Engineering, Ukraine
- 13:35 - 13:55 Extraction and characterization of cellulose from agricultural residue - Zea Mays
Sergio Mayta, National University of Engineering, Peru
- 13:55 - 14:15 Preparation of ternary composites using biopolymers, activated coir pith and $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$ for the removal of anionic and cationic dyes in aqueous medium
Ronald Tello-Sánchez, National University of Engineering, Peru

End of Day 1

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Friday
April 08, 2022

Day 2 - April 08, 2022

Keynote Presentation

10:00 - 10:25 The role of hard and soft phases in memory behaviour of shape memory alloys
Osman Adiguzel, Firat University, Turkey

Oral Presentations

10:25 - 10:45 Synthesis of surface engineered zinc ferrite ($ZnFe_2O_4$) nanoparticles by Coprecipitation method and their characterization
Atta Ur Rahman, Jiangso University of Science and technology, China

10:45 - 11:05 On the toxicity of gold nanoparticles
Bashir Jarrar, Jerash University, Jordan

11:05 - 11:25 Improving the reliability design of mechanical systems such as refrigerator
Seongwoo Woo, Ethiopian Technical University, Ethiopia

11:25 - 11:45 Hydrolysis of the carbamate and investigation of the mechanism of the hydrolysis computationally
Maryam Nejat Dehkordi, Islamic Azad University, Iran

11:45 - 12:05 Converting leather wastes into advanced nanomaterials for energy and environmental applications
P. Thanikaivelan, CSIR-Central Leather Research Institute, India

12:05 - 12:25 Biosynthesized nanomaterial: Promising for use as fertilizer and plant protectants
J. C. Tarafdar, Central Arid Zone Research Institute, India

12:25 - 12:45 Tensile properties and fracture morphology of *Acacia caesia* bark fibers treated with different alkali concentrations
Sivasubramanian Palanisamy, Dilkap Research Institute of Engineering and Management Studies, India

12:45 - 13:05 Functionalized porous Si-based nanomaterials for tacrolimus delivery for the treatment of atopic dermatitis: *In vivo* study and determination of pro-Inflammatory cytokines IL-6 mRNA expression
Yasir Mahmood, Government College University Faisalabad, Pakistan

End of Day 2