

PIM 2021 CONFERENCE PROGRAM

Wednesday 22.09.2021

8:00 – 8:30 Registration
8:30 – 9:00 Conference Opening Ceremony

SESSION 1

Chairman Jean-Philippe Dacquin; Diana Lazăr

9:00 – 9:30 Plenary Pl-16	Ladislau Vékás <i>Particle clustering and structuring phenomena in ferrofluids: advanced investigations, controlled processes and applications</i>
9:30 – 10:00 Plenary Pl-2	Stefano Belluci <i>Nanostructured materials for sensing applications</i>
10:00 – 10:30 Plenary Pl-6	Otilia Ana Culicov <i>Neutron Activation Method applied to environmental, geological, nanomaterial and heritage material samples</i>
10:30 – 10:45 Oral T4-8	Leontin Pădurariu <i>Modeling the complex dielectric properties in ferroelectric-based composites by a dynamic finite element method</i>
10:45 – 11:00 Oral T4-2	Izabell Crăciunescu <i>High performance functionalized magnetic nanoparticles with tailored size and shape for localized hyperthermia applications</i>
11:00 – 11:30	Coffee Break

SESSION 2

Chairman Stefano Bellucci; Ovidiu Pană

11:30 – 12:00 Plenary Pl-7	Jean-Philippe Dacquin <i>Nanostructured porous materials for environmental catalysis</i>
12:00 – 12:30 Plenary Pl-17	Kaiying Wang <i>Nanostructured black silicon fabrication for energy conversion</i>
12:30 – 12:45 Oral T4-6	Radoslaw Mrowczynski <i>Bioinspired hybrid materials for cancer therapy</i>
12:45 – 13:00 Oral T4-3	Lavinia Curecheriu <i>Electrocaloric effect in BaZrxTi1-xO3 ceramics</i>
13:00 – 13:15 Oral T4-4	Ioana Grosu <i>Supramolecular Organic Frameworks Constructed via Halogen Bonding</i>
13:15 – 13:30 Oral T4-5	Maria Mihet <i>MOF(Al) based catalysts for CO₂ methanation</i>
13:30 – 15:00	Lunch
15:00 – 16:00	ePoster Session 1 <i>Sections T1, T2, T3</i>

SESSION 3

Chairman	Humberto Cabrera; Valer Toşa
16:00 – 16:30 Plenary Pl-14	Salvatore Stagira <i>Extreme Ultraviolet to soft-X-ray Photonic Integrated Circuits</i>
16:30 – 17:00 Plenary Pl-11	Balázs Major <i>The ELI-ALPS user facility: ultrafast, broadband light sources for diverse applications</i>
17:00 – 17:15 Oral T2-1	Attila Bende <i>Low-lying electronic excited states of dopamine</i>
17:15 – 17:30 Oral T4-10	Doru Sticleţ <i>Linear response theory for non-Hermitian systems</i>
17:30 – 17:45 Oral T4-9	Pioraş Timbolmaş Larisa <i>Decoherence in fluxonium based superconducting circuits</i>
17:45 – 18:00 Oral T2-4	Loránt Jánosi <i>Novel Antimicrobial Peptides: In silico Design and Experimental Validation</i>

18:00 – 20:30 **Welcome cocktail**

Thursday **23.09.2021**

SESSION 4

Chairman	Emanoil Surducan
9:00 – 9:30 Plenary Pl-10	Angela Limare <i>Thermal history of planetesimals: what can we learn from meteorites and fluid mechanics experiments</i>
9:30 – 9:45 Oral T3-2	Jeong In-Sung <i>Analysis of Demonstration and Characteristic for the ± 35 kV MVDC</i>
9:45 – 10:00 Oral T3-3	Lee Junyong <i>Structural Safety Analysis of 200 kW Class Wind Turbine Nacelle Cover for Islands</i>
10:00 – 10:15 Oral T3-4	Lim Jongrok <i>Case studies for non-detection of islanding by grid-connected in-parallel PV and ESS inverters</i>
10:15 – 10:30 Oral T3-8	Vasile Rednic <i>High temperature receiver for concentrated solar power</i>
10:30 – 10:45 Oral T3-1	Robert Gutt <i>Advances of electromagnetic energy harvesting through antenna-metamaterial coupling</i>
10:45 – 11:00 Oral T3-7	Iuliu Nadăş <i>ITIM contribution to the development of a new particle detector read-out system</i>
11:00 – 11:30	Coffee Break

SESSION 5

Chairman	Balázs Major; Ioan Turcu
11:30 – 12:00 <i>Plenary Pl-12</i>	Andre Matagne <i>Protein formulation through automated screening of pH and buffer conditions using the Robotein® high throughput facility</i>
12:00 – 12:30 <i>Plenary Pl-4</i>	Humberto Cabrera <i>Electrophoresis-thermal lens based method for separation and online detection of nanoparticles and biomolecules in microdevices</i>
12:30 – 13:00 <i>Plenary Pl-15</i>	Valadan Mohammadhassan <i>Studies on biomolecules modeling UV induced DNA/Protein cross-linking</i>
13:00 – 13:15 <i>Oral T2-3</i>	Monica Florescu <i>Spectroscopic evaluation of vitamins effect on the BSA – LT4 complex</i>
13:15 – 13:30 <i>Oral T1-4</i>	Jing Zhang <i>The Opportunities of in situ X-ray absorption Spectroscopy for Monitoring the dynamics of Complex systems</i>
13:30 – 15:00	Lunch
15:00 – 16:00	ePoster Session 2 <i>Sections T4</i>

SESSION 6

Chairman	Andre Matagne; Claudiu Filip
16:00 – 16:30 <i>Plenary Pl-5</i>	Rosalie Creswell <i>How ¹³C isotopic labelling has helped solid state NMR reveal the molecular architecture of wood</i>
16:30 – 17:00 <i>Plenary Pl-9</i>	Dinu Iuga <i>High-Field Solid-State Nuclear Magnetic Resonance on Low Natural Abundance Isotopes</i>
17:00 – 17:15 <i>Oral T2-6</i>	Péter Závodszy <i>Ligand Induced Conformational Signals in Kinase networks Involved in Tumorigenesis</i>
17:15 – 17:30 <i>Oral T4-1</i>	Ioan Ardelean <i>Low-field NMR relaxometry investigations of cement hydration under the influence of accelerators</i>
17:30 – 17:45 <i>Oral T2-2</i>	Radu Fecete <i>The perspectives of NMR and artificial neural networks analysis used for an advanced medical diagnosis</i>
17:45 – 18:00 <i>Oral T3-9</i>	Nicoleta Toşa <i>NIR imagistic and spectroscopic investigation of ITO thin films: A non-invasive and non-destructive approach</i>
18:00 – 18:15 <i>Oral T4-7</i>	One Roxana <i>Voltage control of perpendicular magnetic anisotropy in systems displaying quantum well effects</i>

Friday 24.09.2021**SESSION 7****Chairman Rosalie Creswell; Alina Măgdaş**

9:00 – 9:30 Plenary Pl-1	Nastasia Belc <i>High Added Value Molecules in food for better nutrition</i>
9:30 – 10:00 Plenary Pl-13	Nives Ogrinc <i>Authenticity and traceability of food: new perspectives and challenges</i>
10:00 – 10:15 Oral T1-3	Iuliana Motrescu <i>Evaluation of heavy metal contamination in <i>Mytilus</i> sp. using fast detection physico-chemical methods</i>
10:15 – 10:30 Oral T1-2	Camelia Groşan <i>New approach in food analysis</i>
10:30 – 10:45 Oral T2-5	John Nesterovschi <i>The evidence of microplastics in karstic spring waters and their characterization using Raman Spectroscopy</i>
10:45 – 11:00 Oral T1-1	Bogdan Angyus <i>Method for determination of sulfur content: Analytical characterization and application to acid mine drainage water samples</i>
11:00 – 11:30	Coffee Break

SESSION 8**Chairman Kaiying Wang; Zsolt Szücs**

11:30 – 12:00 Plenary Pl-3	Luana Bontempo <i>Recent advances in compound specific Stable Isotope Ratio Analysis for natural products authentication</i>
12:00 – 12:30 Plenary Pl-8	Federico Gabriele <i>Dark Matter discovery through a 350 m cryogenic isotopic distillation column by the Aria Project: status, results and beyond</i>
12:30 – 12:45 Oral T2-7	Mihaiela Stuparu <i>Titanium nitride nanostructured films as an alternative platform for plasmon-enhanced optical processes</i>
12:45 – 13:00 Oral T3-5	Sever Mican <i>Tuning of the Magnetocaloric Effect in the $Dy(Fe_{1-x}Cu_x)_2$ System</i>
13:00 – 13:15 Oral T2-6	Anca Petran <i>The strength of enzymes in polymerization reactions of α-hydroxy acids</i>
13:15 – 13:30 Oral T3-6	Cristian Morari <i>The influence of solvent on the electronic structure and redox properties of sulfonamides</i>
13:30 – 13:45	Closing ceremony