

Session Program

23-24 Sept 2021

First LaPMET Workshop

***Advanced Materials and Processes for Energy
(Posters)***

Friday 24 September

10:40

Advanced Materials and Processes for Energy (Posters)

Session |

Location: Zoom only Zoom session 23/9/2021: <https://videoconf-colibri.zoom.us/j/87872459662?pwd=Sm5ucGIPWWJOCKV6N1BNT255THgvUT09> Zoom session 24/9/2021: <https://videoconf-colibri.zoom.us/j/89034433548?pwd=Qm83ajdSZWt1SC8wQWdIN2FjMXJrQT09> |

Conveners: Estelina Silva, Diogo Santos, Antonio Pereira Goncalves, Carlos Costa

10:55-10:56

Combined Density Functional Theory and Perturbed Angular Correlation Study of SrMnGe₂O₆ and CaMnGe₂O₆

Speaker

Ricardo Moreira

10:55-10:56

Customization of Thermal Expansion in FeCo Nanowires

Speaker

Sofia Gonçalves

10:55-10:56

Enhancing the optical properties of black conventional colorants by TiO₂ incorporation

Speaker

Rita Veloso

11:00-11:01

Transparent piezoelectric polymer-based materials for energy harvesting and touch detection devices

Speaker

Ms Tiago Rodrigues-Marinho

11:00-11:01

MWCNT-based inks optimization for Textile supercapacitors using screen printing method

Speaker

Seyedehmaryam Sadeghi

11:00-11:01

Ionic liquid-based fluoropolymer solid electrolytes for lithium-ion batteries

Speaker

Joao Serra

11:05-11:06

Nuclear microprobe: the tool to characterize new materials for energy conversion

Speaker

Victoria Corregidor

11:05-11:06

Integrated study of triboelectric nanogenerators for ocean wave energy harvesting: Assessing their behavior in model buoys and real sea conditions

Speaker

Cátia Rodrigues

11:10-11:11 **Understanding membrane processes on direct liquid fuel cells****Speaker**

Mr Massimiliano Banini

11:10-11:11

Tetrahedrite co-doping with Se and Ni or Cr for thermoelectric applications**Speaker**

Duarte Moço

11:10-11:11

Metal ion exchange mediated structural modulation in layered perovskites: Step towards next-generation energy-efficient materials**Speaker**

Neenu Prasannan

11:15-11:16

Pressure-induced phase transformations of Sr₃Hf₂O₇**Speaker**

M. C. B. Barbosa

11:15-11:16

Growth of Ruddlesden-Popper Ca₃Mn₂O₇ thin films by Pulsed-Laser Deposition**Speaker**

Bruna Silva

11:20-11:21

Direct-Ink-Writing of Electroactive Polymers for Sensing and Energy Storage Applications**Speaker**

Rafael Pinto

11:20-11:21

Towards environmentally friendly solution-processed CIGS photovoltaic devices**Speaker**

Bruna F. Gonçalves

11:20-11:21

Study of transparent Thermoelectric ZnO-based Thin Films for Energy Harvesting through Atom Probe Tomography**Speaker**

Joana Ribeiro

11:25-11:26

Printed Flexible μ -Thermoelectric Devices**Speaker**

Ana Pires

11:25-11:26

Self-assembly of bis-salphen metal-organic frameworks: atomistic perspective**Speaker**

Dr Sergey Pyrlin

11:25-11:26

Synthesis, characterization and thermoelectric properties of intermetallic compounds

Speaker

Andrea Russo

11:26-11:31

Ferroelectric thin film nanostructures by laser ablation

Speaker

Tiago Rebelo

11:31-11:36

NUMERICAL SIMULATION OF A PASSIVE THERMAL SWITCH

Speaker

Mrs Cláudia Fernandes

12:10