

Poster Session ReMat 2024, October 22nd, 2024

Chair: Dr. Lina Mikoliunaite, Vilnius University and Center for Physical Sciences and Technology, Lithuania

01	Ruhany Azeez Dissolution Kinetics of Rare Earth Elements from Estonian Phosphate Rock during Processing with Hydrochloric Acid
02	Elžbieta Bajorinaitė Could Phosphogypsum Waste Be a Source of Rare-Earth Elements?
03	Vitalii Boiko Synthesis parameter effect on the optical properties and structure of Eu doped ZnGa ₂ O ₄ persistent phosphors
04	Alėja Marija Daugėlaitė Upconverting Nanocomplexes Loaded Mesenchymal Stem Cells for Two-Step Photodynamic Therapy
05	Igor Djerdj High-Entropy Oxides: Game-Changers in CO ₂ Hydrogenation Photocatalysis
06	Justina Gaidukevič Europium Oxide-Modified Reduced Graphene Oxide Composite for Serotonin Detection
07	Yuriy Gerasymchuk Zirconium phthalocyanine and reduced graphite oxide composite materials for photocatalytic purification of waste water
08	Mariusz Hasiak Lanthanide-Doped Gd-Ge-Si Alloys: Microstructure, Magnetic Properties, and Magnetocaloric Performance
09	Greta Inkrataitė Praseodymium doped garnets as new generation scintillators
10	Dovydas Karoblis Molten salt synthesis of Ruddlesden-popper calcium manganites
11	Ewa Kasprzycka Quinolones as sensitizers of visible emitting lanthanide(III) ions
12	Artūras Katelnikovas Synthesis and Optical Properties of Eu ³⁺ , Sm ³⁺ , and Ce ³⁺ -Doped Na ₇ Mg ₁₃ La(PO ₄) ₁₂ Phosphors
13	Vaidas Klimkevičius Surface Functionalization of UCNPs for Excellent Colloidal Stability and Cellular Uptake
14	Gabrielė Klydžiūtė Synthesis and Characterization of Layered Double Hydroxides (LDH) Replacing the M ²⁺ /M ³⁺ Ions with Zinc, Copper and Lanthanum
15	Amadeusz Łaszcz Impact of High-Temperature Heat Treatment on the Functional Properties of Gd-Doped Ni-Mn-Ga Magnetic Shape Memory Alloy
16	Janina Legendziewicz

	Thermoluminescence application in architecture studies of the Gothic cathedral in Opole
17	Greta Linkaitė Synthesis of Biphasic Calcium Phosphate Granules from Gypsum Under Static and Rotating Conditions
18	Agnieszka Lipke The influence of phosphates on the tetrad effect in the adsorption systems with red clay or zeolites
19	Anna Lukowiak Photoluminescence of RE-doped bioactive glass
20	Marvin Michak In situ investigations on H/O exchange reactions in yttrium hydride oxide YHO
21	Christoph Middelhoff Novel Gain Media for a Potential UV-B Up-Conversion Laser
22	Agata Musiałek Laser induced white emission and photocurrent of GaN nanoceramics
23	Turlybek Nurakhmetov Luminescence and electron-hole trapping centers of phosphates and sulfates activated by transition and rare-earth ions
24	Kazuya Omuro Next-Generation X-Ray Imaging Scintillators: Challenges and Opportunities in Ce ³⁺ -Doped (Lu _{1-x} Tb _x) ₃ Al ₂ Ga ₃ O ₁₂ Garnet Crystals
25	Andrius Pakalniškis The Formation and Magnetic Properties of Metastable Hexagonal Phase in Doped LuFeO ₃
26	Tim Pier On the Photoluminescence of Pr(III) Substituted Pyrophosphate Polymorphs
27	Rosina Celeste Ponterio Microorganisms as Promising Biotechnological Candidates for Rare Earth Elements Recovery
28	Maciej Ptak Structural, phonon, and optical properties of inorganic perovskites tuned by aliovalent doping
29	Olzhas Shalkhar New insight in the sol-gel synthesis of lanthanide-substituted garnets
30	Dmytro Shyshkin Synthesis of Nickel-Rhenium-Phosphorous Catalysts and their Application for Oxygen Evolution Reaction
31	Jonas Stadulis Luminescent Properties of Eu ²⁺ -doped Sr ₅ (PO ₄) ₃ Cl Synthesized in Air Atmosphere
32	Mariusz Stefanski Broad Luminescence Generated by IR Laser Excitation from CsPbBr ₃ :Yb ³⁺ Perovskite Ceramics
33	Simona Streckaite

	The limiting factors of quantum-cutting efficiency of ytterbium-doped lead halide perovskites: dimeric and monomeric ytterbium species
34	Robert Tomala Laser induced white emission as a tool for pressure sensing
35	Marlies Van Bael Controlling oxygen vacancies in CeO _{2-x} for CO ₂ reduction
36	Diana Vištorskaja The Sol-Gel Synthesis and Characterization of Novel Garnet-Type Luminescent Materials
37	Patrycja Zdeb Visible-to-UVC Upconversion in Pr ³⁺ -Doped Phosphors: A Step Towards Innovative UVC Light Sources