ATAM & MASCA 2024 – Poster Session

5-7 June 2024, PORT – Łukasiewicz, Wrocław, Poland

No.	Presenter	Title of the presentation	Place
P-1	**Mariusz HASIAK**	*Microstructure to biocompatibility and mechanical properties relationship for Zr-based bulk amorphous/crystalline composites*	Conference hall (1st floor)
P-2	**Katarzyna WAL**	*Adsorption of carbon dioxide on raw and modified vermiculite*	
P-3	**Chinenye Adaobi IGWEGBE**	*Advancements in Bio-Nanoparticles for Sustainable Wastewater Treatment: Applications, Challenges, and Future Perspectives*	
P-4	**Agnieszka BASZCZUK, Irena JACUKOWICZ-SOBALA, Agnieszka CIECHANOWSKA, Marek JASIORSKI**	*Oxygen-reach amorphous TiO_2 as a raw material for the preparation of self-cleaning and antibacterial coatings active in visible light and in the dark*	
P-5	**Maciej WINIARSKI**	*Electronic structure of hexagonal ScN, YN, and LuN*	
P-6	**Kaja BILIŃSKA**	*Machine Learning for half-Heusler Phases: From Lattice Parameter to Thermoelectric Performance*	
P-7	**Qurat Ul AIN**	*Magnetocaloric effect in Zintl phase $Eu_3In_2As_4$*	
P-8	**Jacek ĆWIK**	*Composite magnetic refrigerants consisting of intermetallic Laves phase compounds for use as an active magnetic regenerator for hydrogen liquefaction*	
P-9	**Adrian MATUSIAK**	*Utilizing quartz crystal microbalance for physical vapor deposition processes*	
P-10	**Konrad KRÓL**	*Effect of temperature on electrical properties of single-layer $Mo(S_xSe_{1-x})_2$ FET*	
P-11	**Adrianna PIEJKO**	*KPFM investigation of monolayer membranes based on $Mo(S_xSe_{1-x})_2$ alloys*	
P-12	**Amadeusz ŁASZCZ**	*Multi-Scale Characterization of Martensite Modulation in Ni-Mn-Ga-Co-Fe Heusler Alloys Using Atomic Force Microscopy*	
P-13	**Amelia MAJ**	*Emerging possibilities of transmission electron microscopy imaging at WUST*	
P-14	**Kacper PROKOP**	*A route to highly transparent non-cubic calcium phosphate ceramics: impact of starting powder, LiF doping, and SPS sintering conditions*	

P-15	**Małgorzata GUZIK**	*Cubic eulytite-type $M_3Y(PO_4)_3$ ($M = Sr^{2+}, Ba^{2+}$) phosphates as new promising material for transparent ceramics*	
P-16	**Jakub PAWŁÓW**	*Developing NIR-emitting nano- and micro-crystalline YPO_4 and $GdPO_4$: Unraveling energy transfer dynamics in Nd^{3+}/Yb^{3+} co-doped systems*	
P-17	**Kamil TRAJDA**	*Pressure dependence measurement of band gap for TMASI perovskite*	
P-18	**Maja SZYMCZAK**	*Ni^{2+}-doped phosphors – novel class of luminescent manometers*	
P-19	**Grzegorz BĘKARSKI**	*Tailoring Upconverting Nanoparticle Architecture for Enhanced Förster Resonant Energy Transfer Sensing*	
P-20	**Lei Oscar CUASAY**	*Fixation of amyloid spherulites stained with gold nanoclusters for multimodal bio-imaging: TEM and fluorescence microscopy*	
P-21	**Denis KOLTSOV**	*Nanoparticle sizing and counting across many applications and industries*	
P-22	**Piotr KUICH**	*SARS-CoV-2 protein surface modification of Zn_2GeO_4:Mn UV-excited luminescence nanomaterials*	
P-23	**Patryk OBSTARCZYK, Joanna OLESIAK-BAŃSKA**	*Two-photon circular dichroism of Au_{38} gold nanoclusters enantiomers protected with achiral ligand*	
P-24	**Karolina SULOWSKA**	*Chiral properties of atomically-precise DNA-stabilized silver nanoclusters probed by two-photon excitation*	
P-25	**Roman JĘDRZEJEWSKI**	*Hydrophobic epoxy-composite coating modified by acidalkyl chain with anti-icing properties*	Ground floor
P-26	**Jyoti YADAV**	*Spatially resolving pH towards the nanoscale using conformationally fluorescent polymer brushes*	
P-27	**Anuj SHARMA**	*Fmoc-Assisted Solution-Phase Synthesis of Sequence and Chirality Defined Oligourethanes*	
P-28	**Paweł CWYNAR**	*Designing of selective probes for detection of bioactive impurities of water*	
P-29	**Adam SZUKALSKI**	*Anthracene derivatives: Lighting Up Optoelectronics towards All-Optical Synapses*	
P-30	**Bartłomiej POTANIEC**	*Polydiacetylenes as components of thermochromic paints*	
P-31	**Magdalena WILK-KOZUBEK**	*Thermochromic polymeric paints for application in intelligent packaging*	
P-32	**Maria ZDOŃCZYK**	*Organic dyes-doped ionogels as new, potential thermochromic indicators*	

P-33	**Łukasz DUDA**	*Fabrication of luminescent disc-shaped photonic microstructures via wet-chemical etching of hybrid sol-gel layers*	
P-34	**Alina SZUKALSKA**	*Enhanced Optical Performance in Liquids through SPLASH Device: Multicolor Lasing and White Emission*	
P-35	**Natan RYCHŁOWICZ**	*Organic emitters for luminescent liquid crystalline materials – synthesis and properties*	
P-36	**Franz STEPPELER**	*Bulk microencapsulation of cholesteric liquid crystal by emulsification*	
P-37	**Jakub ORLIKOWSKI**	*Fabrication of colloidal superballs from polystyrene-based spheres*	
P-38	**Weronika ZAJĄC**	*Who are we? In search of answers to the question of determining the nature of the dye occurring in dye-doped opals and its properties*	