

IWAMO 2021 – 2nd International Workshop on Advanced Magnetic Oxides

24-26 November 2021 | Aveiro, PORTUGAL

Zoom link (with pre-registration) for all sessions: <https://videoconf-colibri.zoom.us/meeting/register/tZYpf-2uqDlqE9RStZhoypobkTygJAp2pI9g>

Wednesday, 24 November			
9:00	Opening Session		
9:10			
9:20			
9:20	In memoriam: Eliezer Adar		
9:30			
9:40	Session 01 Chairperson: N. Sobolev	Keynote Talk 01: Elvira Fortunato <i>A new era of semiconductors: metal oxides</i>	
9:50			
10:00		Oral 01: M. Batista <i>Spectroscopic investigations on Cr doped zinc gallogermanate persistent phosphor</i>	
10:10			
10:20			
10:30			
10:40	BREAK		
10:50			
11:00	Session 02 Chairperson: V. Shur	Keynote Talk 02: Gunnar Suchanek <i>Resistivity and tunnel magnetoresistance in double perovskite strontium ferromolybdate ceramics</i>	
11:10			
11:20		Oral 02: O. Toulemonde <i>From magnetic cluster glass state to giant vertical magnetization shift induced by ferromagnetic cluster growth in SrFe_{0.25}Co_{0.75}O_{2.63}</i>	
11:30			
11:40			
11:50			
12:00	Oral 03: M. Varghese <i>Is there any dynamic magnetic dimer in Sr₂CrNbO₆ ordered double perovskite?</i>		
12:10			
12:20	BREAK		
12:30 - 14:00			
14:00	Session 03 Chairperson: M. Andrulevicius	Keynote Talk 03: Mikalai Kalanda <i>Electric transport characteristics of Sr₂FeMoO_{6-δ} ceramics with structurally inhomogeneous surfaces</i>	
14:10			
14:20		Oral 04: P.R. Nadig <i>The monovalent Ag-substituted La_{0.67}Ca_{0.33}MnO₃ manganites: The prediction of magnetocaloric effect by means of various models</i>	
14:30			
14:40			
14:50			
15:00	Oral 05: R. Lanovsky <i>The structure, magnetic and magnetotransport properties of layered cobaltites Sr_{1-x}Y_xCoO_{3-δ}</i>		
15:10			
15:20	BREAK		
15:30			
15:40	Session 04 Chairperson: O. Toulemonde	Keynote Talk 04: Shengqiang Zhou <i>Tailoring oxide thin films by ion beam</i>	
15:50			
16:00		Oral 06: M. Andrulevicius <i>XPS analysis of Mo and Sr oxides thin films</i>	
16:10			
16:20			
16:30			
16:40	Oral 07: J. Fedotova <i>Local atomic order and magnetic properties in (FeCo)_x(SiO₂)_{100-x} core-shell nanoparticles for theranostics</i>		
16:50			
17:00	BREAK		
17:10	Session P01 Chairperson: L. Rino	Poster Session 01: Y. Samoshkina Magneto-optics of Hydrogenated ZnO, ZnO:Co, and ZnO:(Co+Al) Films A. Nikolskaya Synthesis and Ion Doping of Gallium Oxide	
17:15			
17:20			
17:25			
17:30		End of day 1	

Thursday, 25 November			
9:00	Session 05 Chairperson: H. Raebiger	Keynote Talk 05: Nerija Žurauskienė <i>Engineering of lanthanum perovskite thin films for magnetic sensors applications</i>	
9:10			
9:20		Keynote Talk 06: Peter K. Petrov <i>Transition metal nitride and oxide thin films: Growth and properties</i>	
9:30			
9:40			
9:50			
10:00	BREAK		
10:40			
11:00	Session 06 Chairperson: G. Suchanek	Keynote Talk 07: Vladimir Ya. Shur <i>Micro- and nano-domain engineering of ferroelectrics crystals</i>	
11:10			
11:20		Oral 08: N.M. Ferreira <i>Application of a magnetic field in laser floating zone for processing thermoelectric ceramics</i>	
11:30			
11:40			
11:50			
12:00	Oral 09: J. Zanoni <i>Spectroscopic studies on doped and proton irradiated β-Ga₂O₃</i>		
12:10			
12:20	BREAK		
12:30 - 14:00			
14:00	Session 07 Chairperson: N. Žurauskienė	Keynote Talk 08: Herman Terryn <i>New experimental and modelling approaches to understand electrodeposition of metals</i>	
14:10			
14:20		Oral 10: C. KeBler <i>Magnetic functionalization of poly(N-isopropylacrylamide) hydrogels for sensor applications</i>	
14:30			
14:40			
14:50			
15:00	Oral 11: A. Mieting <i>In-situ prepared ferragels with stimuli-responsive properties for sensing applications</i>		
15:10			
15:20	BREAK		
15:30			
15:40	Session 08 Chairperson: E. Kotomin	Keynote Talk 09: Dmitry Karpinsky <i>Phase transitions in magnetoelectric BiMnO₃-based ceramics</i>	
15:50			
16:00		Oral 12: A. Batista <i>Visualization of PVDF/Fe₃O₄ composite by MRI: contribution of homopolymer</i>	
16:10			
16:20			
16:30			
16:40	Poster Session 02: S.M. Konoplyuk Magnetic and magnetocaloric properties of Sr ₂ FeMoO _{6-δ} double perovskites with different degrees of superstructural ordering V.A. Safina Chemical solution deposition of BiFeO ₃ films with layer-by-layer control of the coverage and composition N. Grevtsov Porous Silicon Surface Treatment Effect on the Structure of Nickel-Porous Silicon Magnetic Composites E. Lazareva Structural and magnetic properties interplay in optimizing functionality of magnetocaloric ferrite's fine particles		
16:50			
17:00	BREAK		
17:10	Session P02 Chairperson: N.M. Ferreira	Poster Session 02: S.M. Konoplyuk Magnetic and magnetocaloric properties of Sr ₂ FeMoO _{6-δ} double perovskites with different degrees of superstructural ordering V.A. Safina Chemical solution deposition of BiFeO ₃ films with layer-by-layer control of the coverage and composition N. Grevtsov Porous Silicon Surface Treatment Effect on the Structure of Nickel-Porous Silicon Magnetic Composites E. Lazareva Structural and magnetic properties interplay in optimizing functionality of magnetocaloric ferrite's fine particles	
17:15			
17:20			
17:25			
17:30		End of day 2	

Friday, 26 November			
9:00	Session 09 Chairperson: P.K. Petrov	Keynote Talk 10: Eugene Kotomin <i>First principles calculations of the electronic and magnetic properties for defects in oxide crystals</i>	
9:10			
9:20		Keynote Talk 11: Hannes Raebiger <i>Control of magnetism in transition metal doped oxides</i>	
9:30			
9:40			
9:50			
10:00	BREAK		
10:40			
11:00	Session 10 Chairperson: V. Amaral	Keynote Talk 12: Andrii Korostil <i>Features of electrically induced spin torque effect in multilayer magnetic nanostructures</i>	
11:10			
11:20		Oral 14: K. Sharma <i>A DFT+U study of point defects in spinel ferrites</i>	
11:30			
11:40			
11:50			
12:00	Oral 15: K. Tsysar <i>Ab initio study of magnetic and optical properties of Co oxide nanowires on vicinal Pt surfaces</i>		
12:10			
12:20	BREAK		
12:30 - 14:00			
14:00	Session 11 Chairperson: S. Zhou	Keynote Talk 13: Aleksandr Kislyuk <i>Electrophysical properties, morphology and memristive behavior of completely charged domain walls in reduced bidomain lithium niobate</i>	
14:10			
14:20		Oral 16: A. Trukhanov <i>Impact of the nanocarbon (CNT/CNF) on magnetic properties of the "polymer/hexaferrite" composites</i>	
14:30			
14:40			
14:50			
15:00	Oral 17: D. Matrippolito <i>Effects of oxidation and chlorine defects on ferromagnetic CrCl₃ monolayer</i>		
15:10			
15:20	BREAK		
15:30			
15:40	Session 12 Chairperson: A. Trukhanov	Keynote Talk 14: Nikolai Sobolev <i>Energy harvesting and magnetic field sensing with bidomain LiNbO₃-based composites</i>	
15:50			
16:00		BREAK	
16:10			
16:20			
16:30		Closing Session	
16:40			