THE PROGRAM TIMETABLE



APMAS2022 & ENEFM2022 & MEDOPTICS2022



APMAS 2022 12th INTERNATIONAL ADVANCES IN APPLIED PHYSICS & MATERIALS SCIENCE CONGRESS & EXHIBITION

ENEFM 2022 8th INTERNATIONAL CONGRESS ON ENERGY EFFICIENCY & ENERGY RELATED MATERIALS

MEDOPTICS 2022 INTERNATIONAL CONFERENCE OF MEDICAL OPTICS & EXHIBITION

OCTOBER 13-19, 2022

Liberty Hotels Lykia, Oludeniz MUGLA / TURKEY

	PROGRAM		
	TUESDAY, OCTOBER 11, 2022		
14:00-23:30	REGISTRATION FOR EARLY ARRIVALS		
	(14:00 Check-in)		

	P R O G R A M	
	WEDNESDAY, OCTOBER 12, 2022	
9:00-23:30	REGISTRATION (14:00 Check-in)	
Everyday Tours	SOCIAL PROGRAM • Saklıkent Jeep Safari • Paragliding in Oludeniz	

	PROGRAM		
	THURSDAY, OCTOBER 13, 2022		
	APMAS & ENEFM & MEDOPTICS		
	YUNUS EMRE 1		
Z O	Chairperson: A.Yavuz Oral		
:SSI(OPENING CEREMONY		
I G SE	A.Yavuz Oral		
OPENING SESSION 10:15-10:30			
OPE			
10:30-	COFFEE DDFAW		
10:45	COFFEE BREAK		
	Chairperson: A.Yavuz Oral		
Z O	M. Alper Şahiner		
PLENARY SESSION 10:45-11:30	Seton Hall University, USA		
RY SI 15-1.			
:NAI	"Materials Based Functional Properties through Local Structural Probing by		
PLE	Synchrotron Based Spectroscopy"		
7	Chairperson: A.Yavuz Oral		
SSIOF:15	Sabre Kais		
SES:	Purdue University, USA		
NARY SE			
PLENARY SESSION 11:30-12:15	"Quantum Machine-Learning for Electronic Structure Calculations of Quantum Materials"		

12:30- 14:00	LUNCH	T	T
	APMAS	ENEFM	MEDOPTICS
	YUNUS EMRE 1	ARISTO	EFLATUN
	Chairperson: Lech Tomasz Baczewski	Chairperson: Nurhan Turgut Dunford	Chairperson: Kirill Larin
	14:00-14:30	14:00-14:30	14:00-14:30
	Lech Tomasz Baczewski	Nurhan Turgut Dunford	Kirill Larin
	(Invited speaker)	(Invited speaker)	(Invited speaker)
	Institute of Physics Polish Academy of	Oklahoma State University, USA	University Of Houston, USA
30	Sciences, Poland	ID359- Biomass based renewable fuel production	ID578- Biomechanics of the eye: from
15.	ID1944- Chiral induced spin selectivity in	pathways	the cornea to the lens to the retina
-00	hybrid heterostructures composed of		
7:6	magnetic thin film with adsorbed chiral	14:30-14:50	14:30-15:00
<u>S</u> 1	molecules	Iqra Moeez	Krzysztof Petelczyc
PARALLEL SESSIONS 14:00-15:30		Korea Institute of Science and Technology, Korea, Republic	(Invited speaker)
	14:30-15:00	Of	Warsaw University of Technology,
	Shoaib Answer	ID336- Sea Salt as a Stable and Cost-Effective Electrode	Poland
	(Invited speaker)	Material for Sodium-Ion Batteries (NIBs)	ID580- Perceptually Calibrated Scale of
	Khalifa University, Abu Dhabi, UAE	14 50 45 40	Optical Aberrations Generated by
	ID2213- Cobalt Oxide (CoO) Nanocrystals	14:50-15:10	Multifocal Corrective Lenses
4	embedded in Borate (B-O) network to	Maria Kopsakangas-Savolainen	
	induce an analogue Nano-Memristor for Neuromorphic Applications	Finnish Environment Institute/University of Oulu, Finland ID411- Factors Driving Household Solar PV Choices:	
	Neuromorphic Applications	Differences between Earlier Adopters, Potential Adopters	
	15:00-15:30	and Non-Adopters	
	Arkady Zhukov	and Non-Adopters	
	(Invited speaker)		
	University of Basque Country and		
	Ikerbasque, Spain		
	ID2015 -Engineering of Magnetic Properties		
	of Co-rich Microwires by Post-processing		

	PROGRAM			
	FRIDAY, OCTOBER 14, 2022			
	APMAS & ENEFM & MEDOPTICS YUNUS EMRE 1			
	Chairperson: A.Yavuz Oral			
NO .		Jae Sung Lee		
ESSI	Ulsan Na	itional Institute of Science and Technolo	gy, Korea	
PLENARY SESSION 10:00-10:45	"Solar Hyd	lrogen Production at Scale: Materials an	d Systems"	
10:45- 11:00	COFFEE BREAK			
	APMAS	ENEFM	MEDOPTICS	
	YUNUS EMRE 1	ARISTO	EFLATUN	
	Chairperson: Gabriela Toader	Chairperson: Mariama Rebello de Sousa Dias	Chairperson: Janis Spigulis	
	11:00-11:30	11:00-11:30	11:00-11:30	
	Gabriela Toader	Mariama Rebello de Sousa Dias	Janis Spigulis	
	(Invited speaker) Military Technical Academy 'Ferdinand I',	(Invited speaker) University of Richmond, USA	(Invited speaker) University of Latvia, Latvia	
	Bucharest, Romania	ID398- Evaluating materials for	ID591- Optical Imaging Technologies for Skin	
	ID2161- Co-polymeric hydrogels of N-vinyl	thermophotovoltaic emitters	Diagnostics	
	pyrrolidone containing phthalocyanine as photocatalyst for the decontamination of sulfur	11.20 11.50	11:30-12:00	
	mustard	Joaquim Massana	Sergey Alexandrov	
2:40		Universitat de Girona, Spain	(Invited Speaker)	
20-1	11:30-11:50 Rashad Badran	ID366- Ahead Scheduling of Controllable	National University of Ireland in Galway, Ireland	
11:0	The Hashemite University, Jordan	Switches and Energy Storage for Optimal Power Flow Considering Forecast Errors	ID576- Visualization of The Sub-Wavelength Structure of Biomedical Objects with Nano-	
SNS	ID2020 - An Application of the analytical solution	The Weenstacking Forecast Errors	Sensitivity to Structural Alterations	
SSIC	of the small signal steady-state equations:	11:50-12:10		
PARALLEL SESSIONS 11:00-12:40	Analysis of low-temperature field-dependent measurements for nc-Si:H sample	Marina Solovyeva Boreskov Institute of Catalysis SB RAS, Russian	12:00-12:30 Larisa Klapshina	
I I	measurements for ne-si.ii sample	Federation	(Invited Speaker)	
ARA	11:50-12:10	ID391- Water adsorption dynamics on the	G.I.Razuvaev Institute of Organometallic	
<u>a</u>	Alzhan Baimenov	metal-organic framework: intensification of	Chemistry of Russian Academy of Sciences,	
	National Laboratory Astana, Nazarbayev University, Kazakhstan	heat transfer in sorbent bed	Russian Federation ID575- New photosensitizers based on	
	ID2103- Highly Efficient Removal of Methylene	12:10-12:30	cyanoaryl porphyrazines enabling strong	
	Blue Dye by A Hybrid Adsorption–Photocatalysis	Mohd Rashdan Isa	antitumor, rigidochromic and immogenic effects	
	Process Using Ti3c2tx Mxene/Cryogel Composites	Universiti Tenaga Nasional, Malaysia ID376- Study on Potential and Feasibility of	in photodynamic therapy	
	Composites	Alternative Fuels Production from Lemon		
	12:10-12:40	Myrtle Biomass Waste		
	Wael Alnahhal Qatar University, Qatar			
	(Invited Speaker)			
	ID2300- Sustainable Concrete made with			
	Treated Domestic Wastewater and Recycled Concrete Aggregates			
12:30- 13:30	LUNCH			
	SOCIAL PROGRAM			
Q	12:20 10:00 THE BOAT CRIMES ABOVE	ID EVCELLENT DAVE OF BLUE LACOOM	2 VISIT TO SE NICUOLAS ISLAND	
-18:0	13.30-16:00 I TE DUAT CKUISE AKUUN	ID EXCELLENT BAYS OF BLUE LAGOON 8	x VISIT TO St. INICHULAS ISLAND	
13:30-18:00	(Gathering at Congress registration desk)			

	P R O G R A M				
	SATURDAY, OCTOBER 15, 2022				
	APMAS	& ENEFM & MEDOPTICS			
		YUNUS EMRE 1			
	Chairperson: A.Yavuz Oral				
PLENARY SESSION 10:00-10:45	Vladimir Popok Aalborg University, Denmark "Formation and Applications of Polymer Films with Gas-Phase Aggregated Nanoparticles"				
10:45- 11:00	COFFEE BREAK				
	APMAS	ENEFM	APMAS & MEDOPTICS		
	YUNUS EMRE 1	ARISTO	EFLATUN		
	Chairperson: Vladimir Stavrov	Chairperson: Ernst Bauer	Chairperson: Alexey Feofanov		
PARALLEL SESSIONS 11:00-12:40	Vladimir Stavrov (Invited speaker) AMG Technology Ltd., Bulgaria ID2233-Displacement Monitoring with Highly Performing Piezoresistive Sensors 11:30-12:00 Eduard A. Gevorkyan (Invited speaker) Moscow Witte University, Russian Federation ID1945- Transverse-Electric Filled in a Waveguide Filled with Space-Time Modulated Magnetodielectric Medium 12:00-12:20 Minvydas Ragulskis Kaunas University of Technology, Lithuania ID2172- Detection of surface cracks in underwater concrete structures 12:20-12:40 Yusuf Ziya Salık Çelik Halat ve Tel Sanayii A.Ş, Turkey ID2067- Failure Analysis of Gear Fracture in Wire Rope Production	Ernst Bauer (Invited speaker) TU Wien, Austria ID381- Feasible routes to boost thermoelectricity of p- and n-type full-Heusler compounds 11:30-11:50 Aysan Safavi University of Iceland, Iceland ID350- Kinetic modeling of nutshells pyrolytic products 11:50-12:10 Ausrine Zabielaite Center for Physical Sciences and Technology (FTMC), Lithuania ID345- Investigation of hydrogen evolution on cobalt nanoparticles supported graphitic carbon nitride	Alexey Feofanov (Invited speaker) Lomonosov Moscow State University, Russian Federation ID590- Nanobiophotonics in The Studies of Drug-Chromatin Interactions: Single-Particle Fret Microscopy Approach 11:30-12:00 Yulia Kuznetsova (Invited speaker) Ural Branch of the Russian Academy of Sciences, Russian Federation ID2289- Glass-ceramics for White Light Emitters: The Effective Conjunction of CdS QDs in Glass and Ce doped garnets 12:00-12:20 Mikhail Proyavin Federal Research Center Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), Russian Federation ID2184- Additive manufacturing of all- copper elements with complicated geometry and high surface quality for microwave technologies		
12:30- 14:00	LUNCH	l			

	APMAS	ENEFM	APMAS & MEDOPTICS
	YUNUS EMRE 1	ARISTO	EFLATUN
	Chairperson: Filipe Mergulhao	Chairperson: Vitezslav Benda	Chairperson: Igor Meglinski
PARALLEL SESSIONS 14:00-15:40	Filipe Mergulhao (Invited speaker) University of Porto – FEUP, Portugal ID1996- The Potential of Biomimetic Cabbage Leaves in Preventing Biofouling of Escherichia Coli and Listeria Monocytogenes 14:30-15:00 Svetoslav A. Kuzmichev (Invited speaker) Lomonosov Moscow State University, Russian Federation ID2283- Superconducting order parameter in alkali- based iron arsenides by means of the planar break- junction technique 15:00-15:20 Sergey Gudoshnikov National University of Science and Technology «MISiS», Russian Federation ID2075- Non-destructive method of scanning magnetometry for determining magnetization of weakly magnetic and magnetically soft materials 15:20-15:40 Valentina Zhurikhina Peter the Great St. Petersburg Polytechnic University, Russian Federation ID2024- Local crystallization of glass	Vitezslav Benda (Invited speaker) Czech Technical University in Prague, Czech Republic ID371- Innovation drivers in crystalline silicon PV module technology 14:30-14:50 Anna Dymerska West Pomeranian University of Technology, Poland ID367- Metal-organic frameworks based on nickel as an active electrocatalyst for oxygen evolution from water decomposition 14:50-15:10 Alexandra Grekova Boreskov Institute of Catalysis, Russian Federation ID383- Innovative Geometries for Heat Exchangers: Three-Periodic Schwartz Surfaces	Igor Meglinski (Invited Speaker) Aston University, UK ID594- Functional Brain Imaging with Dynamic Light Scattering Imaging 14:30-15:00 Koen Bertels (Invited speaker) QBee B.V., Belgium IDXX-xxx 15:00-15:20 Anna Akinina MIPT, Russian Federation ID2266- MET sensor with a sensitivity controlled by electrical signals
15:40- 16:00	COFFEE BREAK		
	FOYER (Poster Session Area)		
16:00-18:00	Chairperson: A. Yavuz Oral		
16:00	POSTER SESSION I		
	APMAS & ENEFM & MEDOPTICS		

PROGRAM SUNDAY. OCTOBER 16. 2022

	1	SUNDAY, OCTOBER 16, 2022	
	APMAS	ENEFM	APMAS & MEDOPTICS
	YUNUS EMRE 1	ARISTO	EFLATUN
10:00-12:30	Chairperson: Balázs Illés	Chairperson: Loreta Tamasauskaite- Tamasiunaite	Chairperson: Sang-Wan Ryu
PARALLEL SESSIONS 10:00	10:00-10:30 Balázs Illés Budapest University of Technology and Economics, Department of Electronics Technology, Hungary (Invited speaker) ID1947- Investigating Sn whisker growth from SnAgCu composite solder joints	10:00-10:30 Fawzi Banat Khalifa University, UAE (Invited speaker) ID374- Synthesis of Pd nanodots on 2D MnFe2O4 nanosheets for the cathodic reduction of CO2 into HCOOH and anodic oxidation of CH3OH	10:00-10:30 Sang-Wan Ryu (Invited speaker) Chonnam National University, Korea, Republic Of ID1923- Fabrication of 3-Dimensional ZnO-Si Hierarchical Nanowires Anchored with CdS-Shell for Sustainable Solar Fuel Generation
	10:30-11:00 Hong Hocheng (Invited speaker) National Tsing Hua University, Taiwan	10:30-10:50 Loreta Tamasauskaite-Tamasiunaite Center for Physical Sciences and Technology (FTMC), Lithuania	10:30-11:00 Rustem Zairov (Invited speaker) Kazan Federal University, Russian Federation

	ID2250- Ecofriendly Metal Reclamation from Casting Sand Waste by Bioleaching 11:00-11:30 Madjid Fathi University of Siegen, Germany (Invited speaker) ID1988- AI & Cyber Technology for Advanced Engineering - an approach for improvement in Semiconductor production	ID344- Investigation of oxygen reduction and hydrogen evolution on cobalt nanoparticles-nitrogen-doped carbon 10:50-11:10 Younes Abghoui University of Iceland, Iceland ID337- In pursuit of novel material for providing renewable and sustainable energy via green hydrogen production	ID2247- Lanthanide chelates in colloidal state as promising luminescent biosensors and prospective MRI contrast agents 11:00-11:20 Kamila Mizera Central Institute for Labour Protection – National Research Institute, Poland ID2012- The effect of manufacture process properties of epoxy-based hybrid composites
	11:30-11:50 Ari Happonen LUT University, Finland ID2089- Comparing CO2 Emission Realities for Usable Life Cycle of Industrial Use Focused Concrete Floors, Surfaced with Industrial Coatings 11:50-12:10 Ondrej Zivotsky Technical University of Ostrava, Czech Republic ID2011- Mn2FeSi Heusler alloy prepared in bulk, ribbon, and powder form: microstructure and magnetism 12:10-12:30 Jacek Ćwik Institute of Low Temperature and Structure Research, PAS, Poland ID1980- High Field Dependence of the Magnetocaloric Effect in Laves Phase RNi2 Intermetallic Compounds	Zhandos Tauanov Al-Farabi Kazakh National University, Kazakhstan ID2205- Adsorption of mercury on the surface of coal fly ash derived zeolites and nanocomposites: Equilibrium studies and mechanisms 11:30-11:50 Nuno Cláudio Ferreira Rosa Associação Para O Desenvolvimento da Aerodinâmica Industrial (Adai), Portugal ID393- Shellmould, A New Concept of Blank Mold for Glass Containers Manufacturing	11:20-11:40 Jan Przybysz Central Institute for Labour Protection — National Research Institute, Poland ID2010- Flammability and explosive characteristics of mixtures of wood dust 11:40-12:00 Krzysztof Gołacki University of Life Sciences in Lublin, Poland ID1951- Studies concerning stress relaxation in apple
12:30- 13:30	LUNCH		
13:30- 18:00	SOCIAL PROGRAM		
	13:15-18:00 GHOST TOWN & BLUE LAGOON		
	(Gathering at Congress registration desk)		

	PROGRAM
	MONDAY, OCTOBER 17, 2022
	APMAS & ENEFM & MEDOPTICS
	YUNUS EMRE 1
SESSION 11:15	Chairperson: A.Yavuz Oral Neil Mathur
PLENARY SI 10:30-1.	Cambridge University, UK
BLE	"Large electrocaloric effects in PST multilayer capacitors over a wide range of useful temperatures"
11:15- 11:30	COFFEE BREAK

	APMAS	ENEFM	APMAS & MEDOPTICS
	YUNUS EMRE 1	ARISTO	EFLATUN
	Chairperson: Henrikas Cesiulis	Chairperson: Reinhard Haas	Chairperson: Alexander Sigov
PARALLEL SESSIONS 11:30-12:40	11:30-12:00 Henrikas Cesiulis (Invited speaker) Vilnius University, Lithuania ID2118- Complexity of electronic waste recycling: the path of EPT company in SMARTELECTRODES projects 12:00-12:30 Carmen Tuca (Invited speaker) "Horia Hulubei" National Institute for Physics and Nuclear Engineering, Romania ID2085- Radiation protection program on the Cyclotron U-120 type particle accelerator deccommisioning	11:30-12:00 Reinhard Haas TU Wien, Austria (Invited speaker) ID415- Conditions for Competitive, Sustainable and Democratic Electricity Systems 12:00-12:30 Elena Alekseeva Saint Petersburg University, Russian Federation (Invited speaker) ID312- Influence of The Synthesis Conditions to Catalytic Activity of The Oxygen Reduction Catalysts	11:30-12:00 Alexander Sigov (Invited speaker) MIREA – Russian Technological University, Russian Federation ID2238- PZT ferroelectric capacitors: role of interfaces 12:00-12:20 Alonso Hirata Flores Gustavo Center For Nanoscience and Nanotechnology-Unam, Mexico ID1985- Rare Earth-Doped Y3AI5O12 (YAG) Nanophosphors: Synthesis and Applications in Energy-Savings Devices and Nanomedicine 12:20-12:40 Claudiu Filip National Institute for R&D of Isotopic and Molecular Technologies, Romania ID1982- Study of polydopamine strong adhesion by solid-state NMR
12:30- 14:00	LUNCH		
	APMAS	ENEFM	APMAS & MEDOPTICS
	YUNUS EMRE 1	ARISTO	EFLATUN
	Chairperson: Andrey Lipovskii	Chairperson: Amela Ajanovic	Chairperson: Mariana Ionita
PARALLEL SESSIONS 14:00-15:30	Andrey Lipovskii (Invited speaker) Alferov University, Russian Federation ID2023- Second Harmonic Generation in Poled Glasses: Conventional Views and New Insights 14:30-14:50 Alina Marinela Ionescu National Institute of Materials Physics, Romania ID1983- Superconductor/Ferromagnet Heterostructure YBa2Cu3O7-x/CaRuO3 14:50-15:10 Melania Onea National Institute of Materials Physics, Romania ID1979- The influence of process parameters on structural and morphological properties of different metallic nanowires 15:10-15:30 Paul Olaru AGIR_Univ.POLITEHNICA Bucuresti, Romania ID2130- The future technologically ironmaking-H2 (Hydrogen)	Amela Ajanovic (Invited speaker) Vienna University of Technology (TU WIEN), Austria ID416- Prospects for Renewable Fuels in Road Transport 14:30-15:00 Jules Thibault (Invited speaker) University of Ottawa, Canada ID368- Optimisation of a biobutanol production process integrated with a mixed-matrix pervaporation membrane	Mariana Ionita University Politehnica of Bucharest, Romania ID2093- Challenges in graphene-based nanomaterials for advanced bone tissue regeneration 14:20-14:40 Anca Aldea National Institute of Materials Physics, Romania ID2095- Metallized electropun polymeric fibers as a new platform for flexible (bio)sensors 14:40-15:00 Vasily Milyutin Slovak Academy of Sciences, Slovakia ID2038- Soft magnetic composites FeSi/Al2O3-B2O3 with increased resonance frequency 15:00-15:20 Daniela Oprea-Bratu National Institute of Materials Physics, Romania ID1981- Electrospun nanostructured scaffold for electrochemical sensing in cell cultures
15:30- 16:00	COFFEE BREAK		

FOYER (Poster Session Area) Chairperson: A. Yavuz Oral POSTER SESSION II APMAS & ENEFM & MEDOPTICS

PROGRAM TUESDAY, OCTOBER 18, 2022

APMAS & MEDOPTICS ENEFM YUNUS EMRE 1 **ARISTO** Chairperson: Evgeny Barkanov Chairperson: Aron Kneer 10:00-10:30 10:00-10:30 **Evgeny Barkanov** Samy Yousef (Invited speaker) Kaunas University of Technology, Lithuania Riga Technical University, Latvia (Invited speaker) ID433- Modeling of thermal decomposition of metalized food packaging ID2255- Effectiveness and productivity improvement of conventional pultrusion technology plastics and its life-cycle assessment 10:30-10:50 10:30-11:00 **Tugba Gurler Ekaterina Politova** University of Derby, UK Russian Academy of Sciences, Russian Federation (Invited speaker) **ID1978-** Structure and ferroelectric properties of modified lead-free ID414- Hybrid heat pump design strategies to obtain Net Zero Carbon perovskite materials **Buildings** PARALLEL SESSIONS 10:00-12:30 10:50-11:10 11:00-11:20 Mihaela-Cristina Bunea **Aron Kneer** National Institute of Materials Physics, Romania TinniT Technologies GmbH, Germany ID2076- Electrochemical characterization of screen-printed electrodes ID408- An Validated Dual-Porosity Approach to Predict Heat Storage in an modified with conductive materials Aguifer at a Groundwater Remediation Site 11:10-11:30 11:20-11:40 Anastasia Parshina **Nelson Andres** Northern (Arctic) Federal University named after M.V. Lomonosov, Bataan Peninsula State University, Philippines **Russian Federation** ID431- Assessment on SCADA Project Implementation of Electric Distribution Utility for Reliability and Safety in Electric Service **ID1969-** Characteristics of arctic brown algae cellulose 11:40-12:00 11:30-11:50 Gimi Aurelian Rimbu **Tiberius Florian Frigioescu** National Institute for R&D in Electrical Engineering ICPE-CA Bucharest, Romanian Research and Development Institute for Gas Turbines – COMOTI, Romania ID388- Microbial fuel cells (MFCs) developments toward converting ID2168- Development of a new UAV concept and flight method to increase existing and future buildings to micro-power stations and micro-treatment flight autonomy and maximum flight speed using wings and tilt motors plants 11:50-12:10 **Genene Tessema Mola** University of KwaZulu-Natal, South Africa ID2127- Metal plasmon resonances induced enhanced photons harvesting in inverted thin film organic solar cell 12:10-12:30 **Eiman Al Munif** Saudi Aramco, Saudi Arabia ID2254- Study of New Downhole Gas Liquid Separator Designs 12:30-**LUNCH** 13:30 **SOCIAL PROGRAM** 13:30-18:00 13:15-18:00 FETHIYE CITY TOUR & THE ROCK TOMBS (Gathering at Congress registration desk)

	PROGRAM
	WEDNESDAY, OCTOBER 19, 2022
	APMAS & ENEFM & MEDOPTICS
	YUNUS EMRE 1
11:00	Chairperson: Natalia Tsyntsaru
PARALLEL SESSIONS 10:00-11:00	10:00-10:30 Natalia Tsyntsaru (Invited speaker) Vilnius University/Institute of Applied Physics, Lithuania ID2119- Design of materials based on electrodeposited iron group metals 10:30-11:00 Vijaya Srinivasu Vallabhapurapu (Invited speaker) University of South Africa, South Africa ID1915- Low Field Microwave Absorption in Novel Spin Systems: Magnetics to Multiferroics
12:00	Hotel Check Out

PROGRAM LEGEND DESCRIPTIONS		
ID-	APMAS 2022 oral presentations	
ID-	ENEFM 2022 oral presentations	
ID-	MEDOPTICS 2022 oral presentations	

POSTER PROGRAM SATURDAY, OCTOBER 15, 2022 16:00-18:00

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION I

APMAS & ENEFM & MEDOPTICS

ID	Title	Contact Author
APMAS1808	Electrical properties investigation of synthetic polyisoprene composite layers for stretchable electronics	Douniazad Mezdour
APMAS1927	Effect of the laser processing parameters on the selective laser melting of TiC-Fe based cermets	Himanshu singh maurya
APMAS1957	Influence of 0.5 wt% SiC reinforcement on microstructural and thermal properties of SAC0307 solder joints	Agata Skwarek
APMAS1970	Physicochemical characteristics and activity of polyphenols of Arctic macrophytes	Konstantin Bogolitsyn
APMAS1972	Characterization of Al2O3/Ni/Ti composites fabricated via the slip casting method	Marcin Wachowski
APMAS1975	Effect of Organic Shell Nuts Addition on Physical Properties of Concrete	Marcin Małek
APMAS1986	Low temperature refrigerants based on Laves-phase pseudo-binary (Dy,Er)Ni2 intermetallic compounds	Daniel Gajda
APMAS1987	Polydopamine coatings morphology on spherical nanoparticles vs flat substrates	Diana Bogdan
APMAS1990	PAMAM dendrimer-encapsulated Ketoconazole for bioavailability enhancement	Ioana-Georgeta Grosu
APMAS1991	New crystalline forms with improved stability of representative statin drugs	Maria-Olimpia Miclaus
APMAS1994	Application of Scanning Electron Microscopy to Characterize Biocompatible Microplasma Spray Coatings with Controlled Porosity	Nadezhda Prokhorenkova
APMAS1995	Magnetron Sputtering of Cu-Ti Thin Films with Antibacterial Activity to Pseudomonas and Staphylococcus	Bagdat Azamatov
APMAS2000	Thermally stabilized LTCC substrates with paraffin-based phase-change materials	Beata Synkiewicz-Musialska
APMAS2008	Obtaining and Studying the Structural and Optical Properties of Nanodots Based on Graphene Oxide Derivatives by Laser Ablation	Evgeniya Seliverstova
APMAS2013	Setting damper parameters in dynamic structure calculations	Alexander Uzdin
APMAS2015	Engineering of Magnetic Properties of Corich Microwires by Post-processing	Valentina Zhukova
APMAS2019	Synthesis of antimicrobial polyurethane foam/NpAg nanocomposites involving the use of gamma ionizing radiations	Eduard-Marius Lungulescu
APMAS2022	Formation and electric characteristics of ultra-thin SiO2 by low-temperature direct oxidation using H2O/H2 decomposition species	A. Izumi
APMAS2032	Features of interaction of nanosecond UV laser pulses with germanium single crystals of various crystallographic orientation	Vladimir Rogalin
APMAS2050	Effect of copper doping on sintering and dielectric properties of LiZnPO4 ceramics for terahertz applications	Beata Synkiewicz-Musialska
APMAS2066	Effect of boron dispersion phase content and heat treatment on the microstructure and mechanical properties of the Ni-B/B composite coatings	Katarzyna Skroban
APMAS2070	Microstructure and corrosion resistance of Ni-B matrix composite coatings with boron as a dispersion phase produced by electroless plating	Anna Gajewska-Midziałek
APMAS2101	Nanostructuring as a way to change the thin film layer's features	Aliaksandr Smirnov
APMAS2125	Hydrogels obtained by electron beam irradiation designed for mineral salts adsorption	Gabriela Craciun
APMAS2126	Swelling Studies on Hydrogels of Sodium Alginate-g-Acrylamide/Acrylic Acid Type for Agricultural Use	Elena Manaila
APMAS2134	Fluctuations of 1-D interstitial fluxes under cascade damage irradiation	Alexey Semenov
APMAS2139	Stability criterion of dendritic growth for a multicomponent melt with convection	Liubov Toropova
APMAS2170	Gaining Impermeability to Linear Handle Locks Used in Industrial Cabinets	Turgay Şerbet
APMAS2209	Effect of Cerium Oxide on the Catalytic Properties of FeNi/Al2O3 in Methane Decomposition	Gaukhar Yergaziyeva
APMAS2224	Structural Synthesis, Geometry and Inverse Kinematics of a 3PRPS Type Parallel Manipulator	Zhumadil Baigunchekov
APMAS2228	Ameliorating Seed Germination and Seedling of Nano-Primed Wheat and Flax Seeds by the Using Seven Biogenic Metal-Based Nanoparticles	Meisam Zargar
APMAS2232	The impact of the crystal structure on the antimicrobial properties in Cu2+-doped b-Ca3(PO4)2-type phosphates	Dina Deyneko
APMAS2242	Diabetic patient PRP immobilized on PCL nanofibers regulate the endothe-lial cell activation for treatment DFU	Anastasiya Solovieva
APMAS2253	Development of Numerical Code for Advanced Modelling of ATF Chromium-Coated Zr-Based Cladding High Temperature Oxidation	Alexander Vasiliev
APMAS2286	Syntheses, Spectroscopic and Crystallographic Characterizations of the 2- Thiophenylmethylspiro(N/N)di/tetrachlorocyclotriphosphazene derivatives	Aytuğ Okumuş
APMAS2287	Syntheses, Spectroscopic and Crystallographic Characterizations of Coumarin and Piperidine Substituted 2-Thiophenylmethylspiro(N/N)cyclotriphosphazenes	Gamze Elmas
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APMAS2296	Biodegradable materials of carbohydrate, lipid and protein	Agnieszka Folentarska
APMAS2020	An Application of the analytical solution of the small signal steady-state equations: Analysis of low-temperature field-dependent measurements for nc-Si:H sample	Rashad Badran
APMAS2029	Analysis of one-nucleon transfer reaction based on the diffraction model	Rashad Ibrahim Badran
APMAS2040	Influence of the spatial arrangement of products in the chamber of arc-PVD installations on the structure of the deposited coatings	Alexey Vereschaka
APMAS2041	Influence of tribological properties of Ti-TiN-(Ti,Al,Nb,Zr)N coating on the character of tool wear during steel turning	Alexey Vereschaka
APMAS2042	Influence of the properties of a multilayer nanostructured wear-resistant coating Ti- TiN-(Ti,Cr,Mo,Al)N on the wear resistance of a cutting tool when turning steel	Alexey Vereschaka
APMAS2054	Mesoporous silica particles for quick Methylene Blue dye removal from water	Timur Sh. Atabaev
APMAS2164	Magnetic Fe3O4-Ag nanocomposites for effective mercury removal from water	Timur Sh. Atabaev
APMAS2165	Ba (II)-doped mesoporous silica nanoparticles (SiO2-Ba NPs) as a promising contrast agent for effective CT X-ray attenuation	Timur Sh. Atabaev
APMAS2143	Semiconductor core-shell nanowires: synthesis, characterization and photodetecting applications	Andreea Costas
APMAS2144	Bio-inspired fiber webs based on metal oxides by replicating eggshell membranes	Andreea Costas
APMAS2166	Thermal Cycling Setup for Testing and Inspecting Thermal Barrier Coatings Systems	Mihaela Raluca Condruz
APMAS2167	Microstructural and mechanical properties of plasma-sprayed thermal barrier coatings	Mihaela Raluca Condruz
APMAS2184	Additive manufacturing of all-copper elements with complicated geometry and high surface quality for microwave technologies	Mikhail Proyavin
APMAS2185	Study of 3d-printed materials for manufacturing of dielectric components for microwave devices	Mikhail Proyavin
APMAS2291	Design of a compact air-cooled solenoid for a low-voltage gyrotron	Mikhail Proyavin
APMAS2200	Investigation of wear resistance at room and elevated temperatures of samples with nanostructured multilayer coatings ZrHf-(Zr,Hf)N-(Zr,Hf,Cr,Mo,Al)N and Ti-TiN-(Ti,Cr,Al)N	Tatsiana Ramanouskaya
APMAS2201	Improving the corrosion resistance of titanium alloy samples by depositing protective nanostructured nitride coatings on their surface	Tatsiana Ramanouskaya
APMAS2202	Ensuring the best properties of protective coatings for titanium alloys by choosing the optimal parameters for thermal activation of the surface by self-sustained glow discharge plasma	Tatsiana Ramanouskaya
APMAS2259	Alginate-modified β-cyclodextrin nanoparticles- analysis, physicochemical properties	Kinga Koziel-Trabska
ENEFM307	The Green Transformation in Poland. Preliminary evaluation of Poland's wind energy industry potential	Olga Janikowska
ENEFM308	Recovery of PGMs from automobile catalysts as an important aspect to minimize the amount of hazardous waste from car industry	Natalia Generowicz
ENEFM330	Plasmon-enhanced solar cells sensitized with polymethine dyes	Niyazbek Ibrayev
ENEFM384	Analysis of Energy Consumption Data Quality in Smart Buildings for Evolution-Based Scheduling	Hyokyung Bahn
MEDOPTICS574	Viburnum opulus L extracts with gold nanoparticles as photosensitizers for PDT	Ilia Samusev

POSTER PROGRAM MONDAY, OCTOBER 17, 2022 16:00-18:00

FOYER (Poster Session Area)

Chairperson: A. Yavuz Oral

POSTER SESSION II

APMAS & ENEFM & MEDOPTICS

ID	Title	Contact Author
APMAS2217	Preparation and characterization of a biodegradable hydrogel for female hygiene products	Vimla Paul
APMAS1966	Pair interatomic interactions in liquid Cu-Ag alloy	Nikolay Dubinin
ENEFM342	Synthesis of nanocarbon-based materials for supercapacitors application	Eugenijus Norkus
ENEFM325	Production of syngas by CO2 reduction through Reverse Water–Gas Shift (RWGS) reaction over catalytically-active molybdenum-based carbide, nitride, and composite nanowires	Aleš Mrzel
ENEFM320	Energy utilization of waste for the production of hydrogen	Jan Najser & Jaroslav Frantik
ENEFM318	Numerical study of hydrogen influence on burning velocity of propane-air mixtures	Codina Movileanu
ENEFM406	Method Of Sharing Losses in Transport for District Heating in Urban Areas	Ioan Bitir-Istrate
ENEFM419	UV-crosslinked lignin/PAN nanofiber separator for lithium-ion batteries	Sandugash Kalybekkyzy
MEDOPTICS581	Stereoscopic Depth Perception in Binocular Vision Corrected by Light Sword Lenses	Jan Bolek
MEDOPTICS582	Position Tolerance of Light Sword Lens in Presbyopia Correction	Karol Kakarenko

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