

20th IBCAST 2023: Advanced Materials

Technical Program

ADVANCED MATERIALS

Overview

		09:00– 13:00					14:00– 17:30											
Day-1 August, 22 Tuesday	REGISTRATION - CHECK IN - Lunch											Invited Talks		Contributed talk				
							Prof. Dr. Yasir Nawab, NTU Faisalabad		23AM 74	23AM 86	23AM 19	23AM 127	23AM 398					
		Invited talk	Contributed Talk				Invited talk		Contributed Talk									
Day-2 August, 23 Wednesday	Prof. Dr. Sait Eren San, Department of Physics, Kocaeli University, Turkiye		23AM 181	23AM 371				Prof. Dr. Li Yong, BUAA, China		23AM 481	23AM 232	23AM 176						
		Invited talk		Contributed Talk			Invited talk		Contributed Talk									
Day-3 August, 24 Thursday	Prof. Dr. Xiaodong Wang Beijing University of Chemical Technology, Beijing, China		23AM 500	23AM				Prof. Dr. Anatoly N. Khodan A.N. Frumkin Institute of Physical Chemistry and Electrochemistry. Russian Academy of Sciences, Moscow. Russia		23AM 454	23AM 346	23AM 205						
		Invited talk		Contributed Talk			Invited talk		Contributed Talk									
		Prof. Dr. Boris Sharkov, JNR, DUBNA, Russia		23AM 189			Prof. Dr. Tingkai Zhao, North West Polytechnic University, China		23AM 514	TEA BREAK	23AM	23AM 577	23AM 180	23AM	23AM 310	23AM 198		
		Invited talk		Contributed Talk			Invited talk		Contributed Talk									
		Prof. Dr. Boris Sharkov, JNR, DUBNA, Russia		23AM 189			Prof. Dr. Tingkai Zhao, North West Polytechnic University, China		23AM 514	TEA BREAK	23AM	23AM 577	23AM 180	23AM	23AM 310	23AM 198		

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Day 1: August 22, 2023

14:00–16:00		LUNCH	
16:00–18:30 Session Chair: Dr. Abdul Manan, <i>CESAT Islamabad</i>	Time 1600:1650	Composite Solutions for Protection Applications: Present & Future (ballistic Protection & EMI Shielding)	Prof. Dr. Yasir Nawab, NTU Faisalabad
	1650-1710	23AM74: Chemical Degradation of Jute-Reinforced Biobased VE-Composites and Recyclability of Jute Fibers	Saima Adil, INHA university, South Korea
	1710:1730	23AM86: Study the Effects of Geometric Arrangements on Mechanical Properties of 2D Auxetic Woven Fabrics	Dr Syed Arif Ali Shah, NUST Islamabad
	1730:1750	23AM19: Modelling of Component Design for Physical Vapor Deposition Based on DC Magnetron Sputtering	Hafiz Muhammad Tahir Nisar , NUST Islamabad
	1750: 1810	23AM127: Electro-mechanical Behavior of Hybrid Composite Sandwich Radome: A-type Radome.	Zahib Muneer, UET Taxila
	1810:1830	23AM398: Investigating the Influence of Dopant-Induced Defects on the Optical Characteristics of Semiconductor Materials	M Kashif, NUST Islamabad

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Day 2: August 23, 2023

09:00 – 10:30 Invited Talks Session Chair: Prof. Dr. Xiaodong Wang Beijing University of Chemical Technology, Beijing, China	0900-0950	Nanoscale Electronics with Nanoscale Materials	Prof. Dr. Sait Eren San, <i>Department of Physics, Kocaeli University, Turkiye</i>
	0950:1010	23AM181: Enhancing Dielectric Strength of Polyester Insulation in Ignition Coils using Nano and Micro Fillers: A Comparative Study of Al ₂ O ₃ and ZnO	Sara Aslam, UET Peshawar
	1010:1030	23AM371: SiC coated Hastelloy X via wet chemistry for Corrosion Protection in Energy Applications	Zain Hussain, NUST Islamabad
10:30 – 11:00	Tea Break		
11:00 – 12:50 Advanced Materials-II Session Chair: Prof. Dr. Xiaodong Wang Beijing University of Chemical Technology, Beijing, China	1100-1150	Creep age forming of high strength aluminum alloys : development & modelling (No Show)	Prof. Dr. Li Yong BUAA , China
	11:50-1210	23AM176: A Numerical Study on Effect of Ceramic Core Placement on Composites Under Impact	Mateenullah Meo , IST Islamabad
	1210-1230	23AM232: Effect of perovskite thickness and temperature on a CH ₃ NH ₃ SnI ₃ based perovskite solar cell	Samra Imran , UET Taxila
12:50 – 14:00	LUNCH		

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Day 2: August 23, 2023

14:00–15:30 Session Chair: Prof. Dr. Xiaodong Wang Beijing University of Chemical Technology, Beijing, China	Time 1400:1500	Preparation and properties of amorphous carbon nanotubes, nanomaterials and composites used in electromagnetic wave absorption'' (NO SHOW)	Prof. Dr. Tingkai Zhao NorthWest Polytechnic University , China
	1500-1520	23AM514: Influence of Carbon Enrichment in TiO ₂ Nanotubes.	Amara Nasir , PIEAS Islamabad
15:30–16:00	Tea Break		
16:00–17:10 Session Chair: Prof. Dr. Xiaodong Wang Beijing University of Chemical Technology, Beijing, China	1530-1550	23AM577: Enhanced Mechanical and Anticorrosion Properties of Ni-based composite coatings Prepared using Titanium Nanoparticles: - A Detailed Study	Khurram Shehzad., CESAT Islamabad
	1550-1610	23AM180: Nickel based Nanostructured Meta-absorber for Visible and Infrared Applications	Isma Javeed , ITU Lahore
	1610-1630	23AM310: Deformation behavior of 3D printed auxetic structure	Shahyan Khan , GIK Sawabi
	1630-1650	23AM: Fabrication of CoIrs/Al ₂ O ₃ modified glassy carbon electrode and electrochemical oxidation of hydrazine	Dr Naveeda Firdos , CESAT Islamabad

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Day 3: August 24, 2023

09:15 – 10:50 Invited Talks Session Chair: Prof. Dr. Sait Eren San, <i>Department of Physics, Kocaeli University, Turkiye</i>	Time 09:15-1000	Development of phase-change composites for solar energy harvest , infrared stealth and other applications	Prof. Dr. Xiaodong Wang Beijing University of Chemical Technology, Beijing, China
	1000-1020	23AM500: Synthesis and Characterization of Magnesium doped Zinc Sulphide Nanoparticles to study Optical Properties	Fatima Rehman, ITU Lahore
	1020-1040	23AM346: Effect of copper alloying on properties of Ti-35.3Nb-5.7Ta-7.3Zr TNZT alloys for biomedical application	Urooj Benish, GIK Sawabi
10:30 – 11:00	Tea Break		
11:00 – 12:50 Advanced Materials-II Session Chair: Prof. Dr. Sait Eren San, <i>Department of Physics, Kocaeli University, Turkiye</i>	1100-1150	“The phenomena of formation and growth mechanism of Aluminum hydroxide nano fibrils and its applications.”	Prof. Dr. Anatoly N. Khodan A.N. Frumkin Institute of Physical Chemistry and Electrochemistry. Russian Academy of Sciences, Moscow. Russia
	1150-1210	23AM205: Transition Metal Doped ZnO Loaded PVA/SA Biodegradable Barrier Membrane against Periodontal pathogen	Tahreem Tanveer , NUST Islamabad
	1210-1230	23AM481: Direct Energy Deposition Processing of SS316L using MIG Wire Arc Additive Manufacturing	Muhammad Amir Raza, CESAT Islamabad
12:20 – 14:00	LUNCH		

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Day 3: August 24, 2023

14:00–15:10 Session Chair: Prof. Dr. Anatoly N. Khodan A.N. Frumkin Institute of Physical Chemistry and Electrochemistry. Russian Academy of Sciences, Moscow. Russia	Time 1400:1420	23AM189: Metasurface-Empowered Dispersion Engineering	Isma Javeed , ITU Lahore
	1420-1510	Accelerator-based Nuclear Research in Materials Science	Prof. Dr. Boris Sharkov JNR, DUBNA, Russia
	1510-1530	23AM: Simulation Study of SS 316 stress corrosion cracking in Nitric acid environment at different temperature and tensile strain range	Haroon Rashid , CESAT Islamabad