

16th IBCAST 2019: Advanced Materials

Technical Program

Overview

		09:30– 13:00											14:00– 16:30					
Day-1 January 08, 2019 Tuesday	REGISTRATION										Lunch	Invited Talks		Advanced Materials 1				
	Prof. Tingkai Zhao, NPU China		19AM 150	19AM 552	19AM 57	19AM 369	19AM 443											
Day-2 January 09, 2019 Wednesday	Invited Talks																	
	Prof. Jiantao ZAI, SJTU, China	Dr. Zhengjum Yao. NUA, China	19AM 538	19AM 798	T E A	19AM 44	19AM 135	19AM 725	19AM 488	19AM 247		19AM 475	19AM 592	19AM 588	19AM 397			
	Invited Talks																	
Day-3 January 10, 2019 Thursday	Invited Talks																	
	Prof. Honglie Shen, NUA China	Prof. Kadir Bilisik, Erciyes Kayascri, Turkey	19AM 814	19AM 132		19AM 360	19AM 415	19AM 175	19AM 509	19AM 555		19AM 481	19AM 756	19AM 118	19AM 416	19AM 363		

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Day 1: January 08, 2019

09:30-13:00		REGISTRATION	
13:00–14:00		LUNCH	
14:00–14:50 Session Chair: DR. ZAFFAR M KHAN IST ISLAMABAD	Time	Performance of advanced carbon materials such as carbon nanotubes, graphene, 2D nanomaterials, carbon foam and their applications in composites, energy conversion (solar cell, supercapacitor and Li-ion batteries)	Prof. Tingkai Zhao , NPU China
14:50 – 16:30 Advanced Materials-I Session Chair: DR. ZAFFAR M KHAN IST ISLAMABAD	1450-1510	19AM150 Preparation and Mechanical Properties Graphene modified CFRP	Jintang Zhou , NUAA, China
	1510-1530	19AM552 In Situ Synthesis of Hyperbranched Polyamide/Titania Nanocomposites via Sol-Gel Process	Hira Kausar , IST Islamabad
	1530-1550	19AM57: Mechanistic insights into high lithium storage performance of mesoporous chromium nitride anchored on nitrogen-doped carbon nanotubes	Syed Mustansar Abbas Dongguk university, Korea
	1550-1610	19AM369: Spark plasma sintering of boron carbide reinforced aluminium alloy (Al6061) matrix composites	Mahmood Khan , IST Islamabad
	1610-1630	19AM443 Development and characterization of Silicon Carbide Coating on Graphite Substrate	M. Farooq Zafar , CESAT, Islamabad

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Day 2: January 09, 2019

09:30 – 10:20 Invited Talks Session Chair:	Time	Synthesis and Electrochemical Investigation of High-Performance Si/C Anode Materials	Prof. Jiantao ZAI, SJTU, China
DR. MAZHAR MEHMOOD, NATIONAL CENTRE FOR NANO TECHNOLOGY, PIEAS ISLAMABAD	1020-1040	19AM538: Comparative analysis on the structure and properties of Iron-based amorphous coating sprayed with various thermal spraying techniques	Amjad Iqbal, IST, Islamabad
	1040-1100	19AM798 Hot formability of Ti ₂ AlNb rolled sheet	Yong Wu, NUAA, China
11:00 – 11:20	T E A		
11:20 – 13:00 Advanced Materials-II Session Chair: DR. MAZHAR MEHMOOD, NATIONAL CENTRE FOR NANO TECHNOLOGY, PIEAS ISLAMABAD	11:20-1140	19AM44 : Microstructures and mechanical properties of submerged friction stir welding of ME20M magnesium alloy	Wenming Liu NUAA, China
	1140-1200	19AM135: Dual-pin tool dissimilar friction stir welding of aluminum and copper: the effect of tool pin profile on the weld microstructure and mechanical properties	Wentao Hou, NUAA, China
	1200-1220	19AM725: Crack appearance on tungsten surface irradiated by intense pulsed ion beam: A computational study	Ijaz Shahid, Beihang University, China
	1220-1240	19AM488: Development and characterization of cost effective wear and corrosion resistant HVOF sprayed chromite coatings & hard chrome plating	Waseem Akram, IST Islamabad
	1240-1300	19AM247: A novel approach to enhance performance efficiency of AlGa _N /InGa _N based MQW LED in UV region	Shah Zaib Aftab, CESAT Islamabad
13:00 – 14:00	LUNCH		

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Day 2: January 09, 2019

14:00 – 14:50 Session Chair: DR. RIZWAN HUSSAIN, CESAT ISLAMABAD	1400-1450	Invited Talk	Dr. Zhengjum Yao. NUAA, China
14:45 – 16:10 Advanced Materials-III Session Chair: DR. RIZWAN HUSSAIN, CESAT ISLAMABAD	1450-1510	19AM475 Laser Beam Rapid Solidification of Plasma Sprayed Ni-Al Coatings on Steels	Shazeen Akhtar, IST Islamabad
	1510-1530	19AM592: Fast and Facile Synthesis of Hierarchical Nanostructures (HNSs) of TiO ₂ via Microwave Irradiation for Photocatalysis	Ramsha Khan, SCME, NUST Islamabad
	1530-1550	19AM588 Ultrathin 2D Sheets of Graphene and WS ₂ for Energy Storage Applications	Sufyan Naseer, SCME, NUST Islamabad
	1550-1610	19AM397: Simplistic development and characterization of S/Se based metal chalcogenides for energy applications	Madiha Nazir, IST Islamabad

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Day 3: January 10, 2019

09:30 – 10:20 Invited Talks Session Chair: DR. FAZL-E-KHALID, VC PUNJAB TIANJIN UNIVERSITY, LAHORE	Time	Fabrication of antireflective nanostructures on crystalline silicon surface and their application for high efficiency solar cells	Prof. Honglie Shen, NUAA China
10:20 – 11:00 Advanced Materials-IV Chair: DR. FAZL-E-KHALID, VC PUNJAB TIANJIN UNIVERSITY, LAHORE	1020-1040	19AM814: Numerical simulation of fracture toughness improvement using multi-walled carbon nanotube modified epoxy in fiber metal laminate joints	Malik Mohammad Shahzeb Khokhar, IST, Islamabad
	1040-110	19AM132: Super hydrophilic nano-particulate coating for solar PV module	Kamran Alam, UET Peshawar
11:00 – 11:20	T E A		
11:20 – 13:00 Advanced Materials-IV Session Chair: DR. FAZL-E-KHALID, VC PUNJAB TIANJIN UNIVERSITY, LAHORE	1120-1140	19AM360: Low velocity impact testing techniques for wood-based sandwich composites	Dr Fazl e Ahad, Harbin Engineering University, China
	1140-1200	19AM415: Energy Generation From Metal-Water Reaction For Power Systems, Underwater And Aerospace Propulsion Applications	Ilyes Ghedjatti, Beihang University, China
	1200-1220	19AM175: Effect of age hardening to reclaim mechanical properties at different levels of temperature with prolong holding time on GTAW weldments	Muhammad Muzamil, NPU China
	1220-1240	19AM509: Microstructure and Mechanical Properties of Spray-formed High Zn-containing Al-Zn-Mg-Cu alloy	Allah Ditta Beihang University, China

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	1240-1300	19AM555: Effect of ZrO ₂ on properties of TiNi based Shape Memory Alloys (SMA's).	Syed Abbas Raza, GIKI, Sawabi
13:00 – 14:00	LUNCH		

Day 3: January 10, 2019

14:00 – 14:50 Invited Talks Session Chair: PROF. DR. YASIR NAWAB, NTU FAISALABAD	1400- 1450	Mechanical Properties of CNT/CNF Grafted Woven Carbon-Epoxy Composites	Prof. Dr. Mehmet Karahan Uludag University Bursa Turkey
14:50 – 16:30 Advanced Materials-V Session Chair: PROF. DR. YASIR NAWAB, NTU FAISALABAD	1450-1510	19AM481: Development and Characterization of NiTi and NiTi-Mg Shape Memory Alloys	Tayyab Amin, IST Islamabad
	1510-1530	19AM756: Patterening of Gold nano rods (AuNr) by soft lithographic techniques	Attaullah Khan, IST , Islamabad
	1530-1550	19AM118: Metallurgical study of high pressure turbine rotor blades of a classified military turbofan engine	Mariya Tahir, CAE, NUST Islamabad
	1550-1610	19AM416: synthesis of alumina modified zinc oxide powder and their structural characterization	Bushra Shaukat, IST , Islamabad
	1610-1630	19AM363: Transient Liquid Phase Bonding of Aluminium alloy with Brass and Boron Carbide	Ahmed Hafeez, IST , Islamabad

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P-Session

Day 2: January 09, 2019

11:00 - 16:00 P-Session	19AM487: Synthesis of Hard Thin Ti/TiN films on a Light Metal	Irfan Nadeem , Institute of Space Technology, Islamabad
	19AM757: 350°C annealed Tin Selenide (SnSe) thin film material for Solar Cell application	Nisar Ali , Department of Physics, GPG Jahanzeb College Saidu Sharif Swat 19130, KPK, Pakistan
	19AM318: Development and Characterization of Oxidation Resistant Coating on Graphite	Menahil Mahmood , IST, Islamabad
	19AM817: In situ synthesis of oxidation and wear resistance coating on graphite	Hadiya Ameen , IST, Islamabad
	19AM749: Highly Sensitive Piezo-Resistive Sensor using Geometrically Configured Stress Concentration Regions (SCRs)	Tayyab Shahid , SEECS, NUST, Islamabad
	19AM128: Study the effect of B-site dopant on dielectric properties of lead free piezo ceramics with high cure temperature	Qazi Jamal Uddin Arshad , Institute of Space Technology, Islamabad
	19AM71: Design and Fabrication of Impact Testing Machine for Composite Materials and Validation of results using ABAQUS	Hassan Habib , University of Wah, Wahcantt
	19AM217: Stress Analysis and Design of a Pressure Vessel Using ANSYS and ASME Section VIII Div. 1	Hammad Iftikhar , CESAT, Pakistan
	19AM888: Influence of pH, Doping and Annealing on Structural and Optical properties of Chemical Bath Deposited Cobalt (III) Oxide (Co ₃ O ₄) Thin Films	Raphael .M. Obodo , University of Nigeria, Nsukka
19AM434: Synthesis and Characterization of ZnO-ZnS Nanoflowers for Enhanced Photocatalytic Performance	Talha Farooq Khan , IST, Islamabad	