Session-01 (Main Hall)

Monday, October 27, 2025 Time 11:00-12:40

Chairperson: Dr	Wilayat Husain	& Dr Sara	Qaisar
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11:00	25-43	KN	Quantum Dots Based Infrared Photodetectors		
			Shengyi Yang, China		
11:40	25-139	KN	Material Challenges and Failure Insights: A Multisector Review from Aerospace to Industrial Processing		
40.00			Anjum Tauqir, Pakistan		
12:20	25-98		Electrochemical Behavior of Casted and SLMed IN718 Under an Acidic Environment		
			Ameeq Farooq, Pakistan		
12:40-14	4:00		Lunch Break		
			Session-02 (Closed Session)		
		Mon	day, October 27, 2025 Time 11:00-12:40		
12:40-14	4:00		Lunch Break		
Session-03 (Main Hall)					
		Mon	day, October 27, 2025 Time 14:00-15:40		
	Cha	irper	son: Dr. Anjum Tauqir & Dr. Shengyi Yang		
14:00	25-152	KN	Tailoring Self-Cleaning and Optical Properties of Zinc Oxide Nanorods Via Controlled Sulfur Doping		
			Ari Sulistyo Rini, Indonesia		
14:40	25-70	KN	Phenomenon of Formation and 1D Growth of Aluminum Oxyhydroxide Nanofibrils and Methods for Creating New Functional 3D Nanostructures		
			Anatole Khodan, Russia		
15:20	25-275		Predicting the Quantum Capacitance of CuxNi1-X Alloys: a Combined Approach of Density Functional Theory and Machine Learning		

Tea Break

15:40-16:00

Session-04 (Room 108) Monday, October 27, 2025 Time 14:00-15:40 Chairperson: Dr. Sajjad ur Rehman & Dr Ameeq Farooq

1	4:00	25-5	KN	Nanomaterial-Enabled Solutions for Advanced Water Testing and Treatment: Innovations in Sensing and Adsorption Muhammad Yasir Khan, Pakistan
1	4:40	25-81	KN	From Textiles to Power Textiles: The Future of Energy-Integrated Clothing Awais Sattar Ghouri, Pakistan
1	5:20	25-15		Investigating the Effect of an AlGaN EBL on the Performance of Green InGaN/GaN Quantum Dot LEDs Muneeba Gul, Pakistan
1	5:40-16	:00		Tea Break

Session-05 (Exhibition) Monday, October 27, 2025 Time 16:00-17:25 Exhibition

Session-06 (Main Hall) Tuesday, October 28, 2025 Time 09:00-10:40

Chairperson: Dr Umair Manzoor & Dr Anatole Khodan

09:00	25-131	KN	Optimizing the Properties of Special Alloy through Structural Control Asif Ali Qaiser, Pakistan
09:40	25-111	KN	Catalytic Transformation of Triglyceride into Sustainable Green Fuels Y.H. Taufiq-Yap, Malaysia

10:20 10:40-11	25-47		Synergistic Adsorption and Photocatalytic Degradation Using Silver-Doped TiO2 Nanoparticle Beds for the Removal of Melanoidin from Distillery Wastewater Mehwish Qaseem, Muhammad Yasir Khan, Pakistan Tea Break
			Session-07 (Room 108)
		Tues	day, October 28, 2025 Time 09:00-10:40
C	hairpers	on: Di	Ari Sulistyo Rini & Dr Muhammad Sheraz Khaliq
09:00	25-41	KN	Aluminum: Metal of 21st Century, Realizing its True Potential, Challenges and Opportunities Shahid Akhtar, Norway
09:40	25-66	KN	From Pakistan to the World: Breaking Barriers in High- Frequency and Energy-Efficient Quantum Semiconductors Muhammad Usman, Pakistan
10:20	25-55		Biodegradation of Different Magnesium Alloys in Simulated Body Fluids
			Ameeq Farooq, Zeeshan Asif, Muhammad Haris Qureshi, Muhammad Rehan Tariq, Dr. Umer Chaudry, Pakistan
10:40-11	1:00		Tea Break
			Session-08 (Main Hall)
		Tues	day, October 28, 2025 Time 11:00-12:40
	Ch	airpei	rson: Dr Shahid Akhtar & Dr. Naseem Irfan
11:00	25-69	KN	The Application of Nanoparticles in Joining Technologies Tahir Irfan Khan, Pakistan
11:40	25-67	KN	Powder Metallurgy Hot Isostatic Pressing Manufacturing of High-Performance Industrial Parts Raja Khan, United Kingdom
12:20	25-85		Friction Stir Spot Welding of Space-Grade Aluminium Alloy 6061-T6 Using a Conventional Milling Machine with a Backing Plate Integrated with Temperature and Load Sensors

12:40-14:00

Lunch Break

Session-09 (Room 108) Tuesday, October 28, 2025 Time 11:00-12:40

Chairperson: Dr Wei Lei & Dr Iftikhar us Salam

11:00	25-6	KN	Microstructural Regulation of Nickel-Rich Cathode Materials for High-Performance Solid-State Batteries
			Lin Wang, China
11:40	25-141	VL	Surface Engineering of Photocurable Polymer Composites Integrated with Additive Manufacturing Chan Ho Park, South Korea
12:20	25-151	VL	Manipulating Electromagnetic Fields and Waves by Artificial Functional Materials Yungui Ma, China
12:40-14	:00		Lunch Break

Session-10 (Main Hall)

Tuesday, October 28, 2025 Time 14:00-15:40

Chairperson: Dr Taufiq Yap & Dr Shabbar Abbas

14:00	25-205	KN	Spectral X-Ray Imaging with Sensors Based on Perovskite Multi-Junctions
			Wei Lei, China
14:40	25-48	KN	Seeing the Unseen: IR Microscopy in the World of Materials
			Shaikh Mohiuddin, Pakistan
15:20	25-31		Atomic-Scale Insights into Single-Atom Catalysts Via Advanced Electron Microscopy
			Dalaver H. Anjum, United Arab Emirates
15:40-16:00			Tea Break

Session-11 (Room 108)

Tuesday, October 28, 2025 Time 14:00-15:40

Chairperson: Dr Muhammad Usman & Dr Muhammad Metin Ozgul

14:00	25-53	KN	Single-Step Synthesis of Mixed Transition Metal Phosphates for Efficient Water-Splitting
			Umair Aftab, Pakistan
14:40	25-102	KN	Interfacial Engineering in Hybrid Fillers: A Study on the Synergistic Enhancement of Thermal Conductivity in Epoxy-Based TIMs
			Muhammad Wasim Akhtar, Pakistan
15:20	25-99		Investigating the Biocompatibility and Dissolution Behavior of Calcium Phosphate Conversion (CaP) Coating on AZ31B Magnesium Alloy
			Ameeq Farooq, Pakistan
15:40-16	:00		Tea Break
			Session-12 (Poster-01)
		Tues	day, October 28, 2025 Time 16:00-17:15
	25-8		Development of Copper Alloy for High Heat Flux Applications
			Muhammad Owais Mirza, Talha Ahmed, Syed Shabbar Abbas Rizvi, Zeeshan Siraj Deen, Syed Wilayat Husain, Pakistan
	25-9		Palladium Deposited TiO2 Nanoparticles: Synthesis, Characterization and Photodegradation Study of Azo-Dye
			Muniba Yaseen Naz, Dr.Tayyaba Ghani, Pakistan
	25-10		Development of Polymer Bonded NdFeB Magnets Through Injection Molding
			Madiha Noreen, Shahid Imran, Salman Waqar, Omer Farooq, Aamir Nusair Khan, Pakistan
	25-11		Enhancing Perovskite Solar Cell Performance: Comparative Analysis of ZrO2 Spacer Layer Effects
			Mujeeb ur Rahman, Muhammad Usman, Pakistan

25-13	Analysis of Hygrothermal Behavior of Polymer Composite Materials
	Zia Ullah Khan, Prof Dr Abdul Shakoor, Pakistan
25-14	The Effect of Cold Working and Aging Treatment on Mechanical Properties and Internal Residual Stresses in Elgiloy Rolled Sheets
	Talha Ahmed, Muhammad Moaaz Zafar, Mudassir Rauf, Dr. Ahnaf Usman, Khalid Mahmood, Dr. Syed Shabbar Abbas Rizvi, Pakistan
25-16	Optoelectronic Simulation of ITO/NPB/Alq3:DCJTB/Alq3 Organic Light Emitting Diode: Effect of Hole Transport Layer Thickness on Device Performance
	Aiman Fatima, Muhammad Usman, Shazma Ali, Anis Naveed, Anuda Bibi, Haseena Noor, Pakistan
25-18	Performance Enhancement of Blue InGaN-Based Resonant Cavity Light Emitting Diodes with Graded Electron Blocking Layer
	Haseena Noor, Muhammad Usman, Shazma Ali, Anuda Bibi, Aiman Fatima, Pakistan
25-20	Improving Spectral Selectivity in GaAs IR Photodetectors Via AlGaAs Filter Layer: a Simulation Study
	Anis Naveed, Muhammad Usman, Jamshad Bashir, Zoya Noor, Pakistan
25-21	Microstructure, Composition and Mechanical Properties of Laser Welded Nitinol Joint
25.22	Qazi Muhammad Yaseen, Rizwan Mahmood Gul, Muhammad Ali Kamran, Muhammad Kaleem Ullah Khalil, Mirza Nadeem Baig, Pakistan
25-22	Effect of Tool Configuration and Post-Weld Treatments on the Corrosion Behavior of Friction Stir Welded Dissimilar Aerospace-Grade Aluminum Alloys
	Afnan Haider Khan, Syed Shah Niaz, Rizwan Mahmood Gul, Muhammad Ali Kamran, Muhammad Samiullah, Afaque Ahmed Hayat, Pakistan
25-23	HA Coating Using Indigenously Developed Electrophoretic Deposition Technique for Biomedical Applications
	Muhammad Tahir, Saeedullah, Ubaidullah, Malik Mudassir Khan, Talal Ahmad, Muhammad Kaleem Ullah Khalil, Mohsin Hayat, Rizwan Mahmood Gul, Pakistan

25-24	Indigenous Development of UHMWPE Acetabular Liner and Its Comparison with a Foreign Made Liner for Total Hip Arthroplasty
	Mohsin Hayat, Rizwan Mahmood Gul, Muhammad Ali Kamran, Muhammad Kaleem Ullah Khalil, Muhammad Tahir, Pakistan
25-25	Effect of Dy Addition on Microstructure and Coercivity Enhancement of NdFeB Permanent Magnets
	Salman Waqar, Pakistan
25-26	Manufacturing of High-Leaded Brass Wire Using Multi- Pass Cold Drawing Process.
	Talha Ahmed, Farooq Iqbal, Dr. Ahnaf Usman, Khalid Mahmood, Dr. Wali Muhammad, Dr. Syed Shabbar Abbas Rizvi, Pakistan
25-27	Fabrication and Analysis of NiCo2O4 Based Asymmetric Supercapacitor Pouch Cells
	Sadia Khalid, Haq Nawaz, Syed Khalid Mehmood Shah, Mohammad Shuaib, Pakistan
25-29	Bioactive Coatings of Mesoporous Calcium Silicate Hydrate Nanoparticles on Stainless Steel Substrate for Biomedical Applications
	Huma Ramzan, Pakistan
25-30	Synthesis and Characterization of High Coercivity Dry Pressed Anisotropic Co-La Oxides Doped Strontium Hexaferrrites by Modified Powder Metallurgy Technique
	Shakir Khan, Muhammad Mustaqim, Omar Farooq Azam, Ali Haider, Aamer Nusair Khan, Pakistan
25-32	Performance Enhancement of Aluminum Gallium Nitride Nanowire Ultraviolet-C Light-Emitting Diodes Through Electron Blocking Layer-Free Architectures: an APSYS- Based Simulation Study
	Anuda Bibi, Muhammad Usman, Shazma Ali, Aiman Fatima, Haseena Noor, Pakistan
25.22	Development of Graphical User Interface (GUI) for Material Characterization Based on Artificial Intelligence
25-33	Hasan Qayyum Chohan, Muhammad Waqas Latif, Omar Farooq Azam, Ali Haider, Aamer Nusair Khan, Pakistan

2.	5-37	Numerical Simulations and Validation of Metal Foam Composite Panel Subjected to Blast Loading by Using AUTODYN 2D
		Salman Waqar, Pakistan
2.	5-39	Societal Impact of Artificial Intelligence in Materials Engineering Sehrish Khan Tayyaba, Pakistan
2	5-42	
Δ.	3-42	Achieving Ultra High Surface Finishing of Additively Manufactured Metal Parts Through Dry Electro-Polishing
		Shakeel ur Rahman, Aqeel Ahsan Khurram, Muhammad Naveed Ahsan, Pakistan
2	5-45	Synthesis of Zinc Oxide Nanoparticles and their Application in Artificial Insemination (AI) of Goats
		Syeda Sohaila Naz, Mubashir Ali Khalique, Syed Murtaza Hassan Andrabi, Habib Rehman, Irfan Zia Qureshi, Pakistan
2.	5-54	Effect of Thermomagnetic Treatment on 7Al-15Ni-26Co-4Cu-48Fe Alloy Doped with Niobium to Enhance Magnetic Remanance
		Nouman Bashir, Dr. Ali Haider, Dr Amir Nusair, Pakistan
2	5-76	AI-Assisted Corrosion Risk Assessment of Reinforced Concrete Structures Using Integrated Corrosion Rate System (ICOR)
		Mahmood Khan, Pakistan
2.	5-77	Development of Natural Defects in Welded Steels Plates and Forgings
2	5.02	Mahmood Khan, Pakistan
2.	5-92	Charge Conduction in Chalcopyrite CuFeS2 Nanoflakes <i>Usman Ali, Pakistan</i>
2	5-94	Advanced Technique for Sn-Cu Soldering of Electric Drive Circuit Board
		Nouman Bashir, Ahsan Ahmad, Ali Haider, Aamir Nusair Khan, Pakistan
2	5-95	Thermal Treatment Optimization for FeCrCo Alloy Processing by Using Taguchi Method.
		Ali Haider, Aamir Nusair Khan, Syed Husain Imran Jaffery, Pakistan

25-97	Electrochemical and Biocompatibility Evaluation of Pure Magnesium with Addition of Different Percentage of Calcium
	Kanza, Zeeshan Asif, Aliya Tufail, Ameeq Farooq, Pakistan
25-100	Synthesis of Calcium Phosphate Coating on AZ31 Magnesium Alloys by Hydrothermal Method
	Umar Hussain, Zeeshan Asif, Umar Asad, Ameeq Farooq, Pakistan
25-110	Surface Modification and Effect of Anodization Parameters on Magnesium Alloy AZ31 for Controlled Biodegradability of Orthopedic Implants
	Muhammad Ahmad, Ahmad Ali, Muhammad Asif Hussain, Ameeq Farooq, Hafiz Muhammad Kabeer Raza, Ehsan Ul Haq, Pakistan
25-113	Effect of NdFeB Magnet Design on Efficiency of Electric Vehicle Motor
	Abdul Basit, ALI Haider, AAMIR Nusair Khan, Pakistan
25-130	Redox Active Cobalt Based Bi-Linker Metal Organic Frameworks Derived from 5-Sulfoisopthalic Acid and 4,4- Bipyridine for Supercapacitor
	Ghulam Ullah, Pakistan
25-134	Effect of Gas Atomizer Nozzle Parameters on Characteristics of Inconel-718 Powder Produced for 3D- Printing
	MUHAMMAD Talha, ANJUM Shahzad, OMAR Farooq Azam, Aamir Nusair Khan, ALI Haider, Pakistan
25-135	Metal Powder Production Facility Ni-Cr Alloy Based Tubular Heater Development for Immersion Resistance Heating
	Anjum Shahzada, Ali Haider, Ahsan Ahmad, Aamir Nusair Khan, Pakistan
25-136	Investigation of Electrical Conduction Characteristics of CuCr-0.60Fe and CuCr-1.4Fe Alloys
25.140	ADEEL Ahmad, ALI Haider, MUHAMMAD Nasir, AAMIR Nusair Khan, Pakistan
25-148	Transplantation of Hydrogel-Entrapped Mitochondria in Skeletal Muscle Injury
	Zarrish Rubab, Muhammad Rizwan Alam, Pakistan

25-149	Development and Characterization of Oxidation and Erosion Resistance Coating on Graphite
	AbuBakar, Dr.Syed Wilayat Husain, Pakistan
25-156	2D Mo ₂ C MXene for High-Performance Asymmetric Supercapacitors
	Uzair Waheed, Bilal Ahmad, Faisal Umar, Yaqoob Khan, Pakistan
25-157	V2C MXene based Gas Diffusion Electrodes for CO2 Electrolyzers
	Bilal Ahmad, Uzair Waheed, Faisal Umar, Yaqoob Khan, Pakistan
25-158	Investigating the Electrochemical Dynamics of Laser- Induced Graphene (LIG) for Photoelectrochemical Energy Conversion and Storage
	Azka Shahid Ejaz, Dr. Muhammad Abdul Basit, Pakistan
25-159	On the Development of Non-Enzymatic Sensor for the Electrochemical Detection of Glucose
	Aiman, Ayaz Hassan, Pakistan
25-160	Effect of Aging Treatment on Microstructure and Magnetic Characteristics of FeNiCoAlCu Alloy
	Asia Ahmed, Inam Ullah Khan, M. N. Sarwar, Ali Haider, Aamir Nusair Khan, Pakistan
25-161	Evaluation of Structural, Microstructural, Thermal and Magnetic Characteristics of Co-Ti-Al-Ni Magnetic Alloy
	Inam Ullah Khan, Asia Ahmed, M. N. Sarwar, ALI Haider, AAMIR Nusair Khan, Pakistan
25-162	Comparison of Two Manufacturing Routes of Aluminum Alloy 2014 Bars to Obtain Consistent Qualified Product as Per Standard BS 1474
	Mehtab Ali, Usman Waheed, Munawar Zaman, Pakistan
25-163	Comparison of Analysis Techniques for the Determination of High Concentration Alloy Elements and Impurities in Aluminum Master Alloys
	Rehan Ahmad, Munawar Iqbal, Zeeshan Abbasi, Muhammad Afzal, Pakistan

25-164	Mo2C MXene for High-Performance Pouch Cell Supercapacitors
	Uzair Waheed, Bilal Ahmad, Faisal Umar, Yaqoob Khan, Pakistan
25-165	Designing and Implementing the Waste-To-Wealth Approach for Development of Metallurgical and Nanoscale Materials from Solar Panel Waste
	MAARIJ ALI, Maira Khaleel, Salwa Zafar, Dr. Muhammad Abdul Basit, Pakistan
25-166	2D Nb2C Mxene-MOF Composite for High Performance Assymetric Supercapacitors
	Faisal Umar, Uzair Waheed, Bilal Ahmad, Yaqoob Khan, Pakistan
25-167	Optimization of Standard Resin to Achieve Best Combination of Mechanical Properties
25-168	Muhammad Ismail Ayyan, Mariyam Ijaz, Hafiz Kabeer Raza Chishti, Waseem Amin, Muhammad Asif Hussain, Pakistan
	Optimization of Coating Parameters to Achieve High Corrosion Resistance of Inconel 625 Coatings Deposited by Wire Arc Spray Process
25-169	Eeman Jawed, Hafiz Kabeer Raza Chishti, Muhammad Asif Hussain, Waseem Amin, Shehzad Hussain, Pakistan
	Development of FeCrB Wear Resistant Coatings by Wire Arc Spray Process
25-170	Shehzad Hussain, Hafiz Kabeer Raza Chishti, Muhammad Yasir, Muhammad Asif Hussain, Waseem Amin, Eeman Jawed, Pakistan
	Comparative Analysis of Structural and Dielectric Properties of NiFe2O4, NiMn2O4, and CNT Composites
	Hira Sultan, Haider Ali, Dr. M Anis ur rehman, Pakistan
25-174	Tailoring the Electrical Properties of Lithium Ferrite Through Cobalt
	Kashaf Naheed, Muhammad Anis ur Rehman, Waqar Mehmood, Pakistan
25-175	Synthesis and Characterization of Magnetron Sputtered Multi-Layer W-Doped Diamond-Like Carbon Coatings
	Haider Ali Ansari, Abdul-Raheem Sufyan, Dr. Asad Ali Dilawary, Pakistan

25-176	Dielectric Spectroscopy of Transition Metal-Based Electrospun Nanofibers
	ROMAISA FATIMA, M. Anis-ur-Rehman, Pakistan
25-177	Characterization and Wear Behaviour of Boronized Layer Deposited by Pack Boriding Process on HSLA Steels
	Naveed Ahmed Siddiqui, Pakistan
25-181	Preliminary Biological Evaluation of Powder-Like Perovskite/Metal Oxide Nanocomposite Developed by a Facile Wet-Chemical Method
	Sadia Gillani, Pakistan
25-185	Influence and Comparative Study of Patenting, Spheroidization and Quenching -Tempering Heat Treatment Routes on the Mechanical Properties and Ductility of AISI 1080 Wire
	Zeeshan Siraj Deen, Dr. Imran Nazir, Sabah Zaman, Qadeer Ahmad, Dr. Shabbar Abbas, Pakistan
25-186	Evaluation of Over Temperature Exposure of HP Turbine Blade
	Wareesha Hasan, Pakistan
25-188	Tailoring the Conductivity of Particle Embedded Nanofibers for Energy Storage Devices
	Ureeba Fatima, M Anis-ur-Rehman, Waqar Mehmood, Pakistan
25-189	Tailoring Lanthanum Cerate Morphology Through Spraying Drying for High Temperature Applications
	Sundas Aneel, M Luqman Ashraf, Nasir Abbas, Kasif Naseem, Pakistan
25-190	Enhancing Conventional Brazing Technology for Ceramic-Metal Joining by Using Pure Silver as Braze Filler.
	Sundas Aneel, Nasir Abbas, M.Luqman Ashraf, Pakistan
25-194	Surface Enhancement of Aluminum Alloy Al 5083 with MgO Embedding Via Friction Stir Processing and Its Mechanical Characterization for Advanced Applications
	Muneeb Hussain, Waseem Amin, Rohail Usman, Muhammad Abdullah Ghous, Muhammad Asif Hussain, Khizar Saeed, Aqil Inam, Kabeer Raza, Pakistan

25-197 Electrical and Electrochemical Studies of NiO;NiCo2O4/CNT Composites for Energy Storage Applications

Hira Sultan, Haider Ali, M Anis-ur-Rehman, Pakistan

17:15-17:25 Ice Cream

Session-13 (Main Hall) Wednesday, October 29, 2025 Time 09:00-10:40

Chairperson: Dr Metin Ozgul & Dr Tahir Irfan Khan

09:00	25-57	KN	Novel Metal Lattice Structures Manufactured by 3D Printing for Biomedical and Aerospace Applications Abdul Khaliq, Saudi Arabia
09:40	25-68		Impact of Metal Powders; Characteristics on the Quality of Additive Manufacturing Parts
			Raja Khan, United Kingdom
10:00	25-140		Synthesis of Al-Cu-Fe-Ag Quasicrystals Based Activated Surfaces for Contact Killing Applications
			Asifa Kusar, Pakistan
10:20	25-121		Donor Flexible Spectator Ligands Anchored Pd (II) as Electrocatalysts for CO2 Reduction Muhammad Naveed Zafar, Pakistan
10:40- 11:00			Tea Break

Session-14 (Room 108)

Wednesday, October 29, 2025 Time 09:00-10:40 Chairperson: Dr Delaver Hussain Anjum & Dr Shaikh Mohiuddin

09:00 25-223 KN MoSi2N4-Based 2D Heterostructures: Advancing Photocatalytic Water Splitting and Sustainable Energy Applications

Abdul Jalil, Pakistan

09:40	25-50	KN	Carbon Nanofiller-Based Thermal Interface Materials for High-Performance Electronics and AI Applications
			Mohsin Ali Raza, Pakistan
10:20	25-122		Molecularly Imprinted Polymer-Integrated HPLC Columns and Smart Syringes for Selective Purification of Pharmacologically Active Compounds from Plants Muhammad Imran Malik, Pakistan
10:40-1	1:00		Tea Break
			Session-15 (Main Hall)
	7	Wedn	esday, October 29, 2025 Time 11:00-12:40
		Chai	rperson: Dr Abdul Khaliq & Dr Wei Lei
11:00	25-184	KN	Production and Shaping of Advanced Materials Through Energetic Reactions
			Onuralp Yücel, Turkey
11:40	25-262	KN	The Importance of Biomaterials to Improve the Health Care Facilities in Pakistan
			Muhammad Attiq Ur Rehman, Pakistan
12:20	25-51		Crystallinity of Graphite Particles formed in Graphitic Steel
			Dr. Aqil Inam, Pakistan
12:40-14	4:00		Lunch Break
			Session-16 (Room 108)
	V	Vedn	esday, October 29, 2025 Time 11:00-12:40
	Ch	airpe	erson: Dr Mohsin Ali Raza & Dr Raja Khan
11:00	25-118	VL	2D Materials for Photovoltaics: Our Story So Far
			Mike Tebyetekerwa, Australia
11:40	25-59	VL	Phase Separation in Solids.
			Michael Sorokin, Russia
12:20	25-3	KN	Probing Structure Property Relationships in Materials Using Advanced Electron Microscopy

12:40-14:00 Lunch Break

Session-17 (Poster Competition) Wednesday, October 29, 2025 Time 14:00-15:40

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FFMP- 123	Inadequate Tempering and Geometric Stress Concentration Leading to Receiver Failure Waseem Arshad, Nadeem Sultan, Anjum Tauqir, Pakistan
FFMP- 124	Diagnosing Chloride-Driven Stress Corrosion Cracking in Inlet Piping: Evidence and Remedies Waseem Arshad, Umer Rasheed, Anjum Tauqir, Pakistan
FFMP- 125	475C Embrittlement in AISI 410S: Root-Cause Analysis and Recommendations Obaid Ur Rauf, Umer Rasheed, Anjum Tauqir, Pakistan
FFMP- 126	Investigation of Premature Pipeline Spool Failure in Multiphase Oil and Gas Service Obaid Ur Rauf, Talha Anees, Anjum Tauqir, Pakistan
FFMP- 127	Carburization and Micro-Cracking in Refinery Air Inlet Piping: Causes and Remedies Waseem Arshad, Mirza Qasim Shehzad, Anjum Tauqir, Pakistan
FFMP- 128	Root Cause Failure Analysis of an Oxygen Charging Valve Connector in Aircraft Systems Obaid Ur Rauf, Muhammad Noman, Anjum Tauqir, Pakistan
FFMP- 146	Metallurgical Analysis on Fracture Behaviour of Various Copper Alloys During Hot Working. Talha Ahmed, Awais Raza, Khalid Mahmood, Dr. Wali Muhammad,
FFMP- 171	Dr. Syed Shabbar Abbas Rizvi, Pakistan Failure Analysis of Accessory Drive Housing Shaft Gear and Bearing (C-130 Aircraft) Madiha Nazir, Pakistan
FFMP- 182	Failure Investigation, Improving mechanical strength of Al-Si cast alloy via microstructural and compositional optimization
	Muhammad Awais Raza, Kamran Yaseen, M Farooq, Khalid Mehmood, Ahnaf Usman, Shabbar Abbas Rizvi, Pakistan

	FFMP- 187		Failure Analysis of 3D Printed Rotor Turbine of Turbojet Engine
			Wareesha Hasan, Pakistan
	FFMP- 192		Failure Analysis of Bearing Cover Assembly
			Muhammad Awais Raza, Pakistan
	FFMP- 193		Failure Analysis of Pressure Regulator Assembly Component
			Muhammad Awais Raza, Pakistan
	FFMP- 217		Failure Analysis of the Adaptor Assembly of Starter Generator of T37 Aircraft
			Muhammad Awais Raza, Pakistan
	FFMP- 232		Investigating Fatigue Failure of Pylon Spindle Screw of an Aerojet
			Muhammad Awais Raza, Qadeer Ahmad, Imran Nazir Qureshi, Shabbar Abbas Rizvi, Pakistan
15:40-10	6:00		Tea Break
			Session-18 (Main Hall)
		Thur	sday, October 30, 2025 Time 09:00-10:40
	Chair	perso	n: Dr Amir Azam Khan & Dr Waheed Gul
09:00	25-207	KN	Molecular Structure and Mechanical Properties of Polymer Materials

09:00	25-207	KN	Molecular Structure and Mechanical Properties of Polymer Materials
			Ersin Üresin, Turkey
09:40	25-103	KN	Thermal Evaluation of Advanced Ablative Composites and Analysis of Space Shuttle Columbia Recovered Panel Mohammad Bilal Khan, Pakistan
10:20	25-109		Synergistic Influence of Fumed Silica on EPDM Elastomer Reinforced with Chopped UHMWPE Fibers for Hyperthermal Environment Sadia Sagar, Pakistan
10:40-			Tea Break

Session-19 (Room 108)

Thursday, October 30, 2025 Time 09:00-10:40

Chairperson: Dr Muhammd Imran Malik & Dr Attiq ur Rehman

09:00	25-86	KN	High Energy Storage Density in Lead-Free Tetragonal Tungsten Bronze (TTB) Ceramics Fayaz Hussain, Pakistan
09:40	25-153		Tuning the Electrochemical Behavior of Iron Doped Nickel Oxide Based Graphene Composites Electrode towards Detection of Dopamine
			Hina Naeem, Pakistan
10:00	25-88		Electrophoretic Deposition of Yttrium Oxide: Process Optimization and Coating Characterization
			Rauf Shahzad, Pakistan
10:20	25-173		Enhancing Mechanical Characteristics of Aluminum Alloy AA2014 by Addition of Rare Earth Mischmetal
			Aamar Iqbal, Syed Walyat Hussain, Pakistan
10:40-11:00			Tea Break
			Session-20 (Main Hall)
		Thur	sday, October 30, 2025 Time 11:00-12:40
		Chair	person: Dr Ersin Ursin & Dr Amjad Ali
11:00	25-279	KN	Quantum Materials Driving the Future of Quantum Technologies
			Yasemin Tabak, Turkey
11:40	25-229	KN	Influence of Boron Doping on Electrical Properties in BNT-BT Lead-Free Piezoelectric Materials
			Metin Özgül, Turkey
12:00	25-278		Cathodic Performance Enhancement of Vanadium Tetra Sulfide (VS4) for Rechargeable Magnesium Batteries
			Muhammad Kashif Naseem, Pakistan

Session-21 (Room 108)

Thursday, October 30, 2025 Time 11:00-12:40

Chairperson: Dr Fayaz Hussain & Dr Sadia Sagar

11:00	25-36	KN	Accelerating the Discovery, Design and Characterization of Contaminated Materials Sakeena Javaid. Pakistan		
11:40	25-28		A Novel Approach to Recycle W-Cu Composite Machine Turnings Scrap		
			Muhammad Bilal Kashif, Pakistan		
12:00	25-215		Investigating the Thermal Stability of TiTaNiCoZr Equimolar Refractory High Entropy Alloy		
			M. Imran Khan, Pakistan		
12:20	25-49		Hybrid Nanomaterial as Intelligent Seafood Freshness Indicator Film (CMC/ST/AgNP/RCE)		
			Shaikh Mohiuddin, Pakistan		
12:40-14	:00		Lunch Break		
			Session-22 (Main Hall)		
Thursday, October 30, 2025 Time 14:00-15:40					
	(Chair	person: Dr M. Farooq & Dr Bilal Khan		
14:00	25-4	KN	Advanced Surface Passivation Techniques for Quantum Dots Using Bulk-Heterojunction Architectures		
			Muhammad Sulaman, Chuanbo Li, Honglian Guo, China		
14:40	25-40		Synthesis and Characterization of Pitch Based TiB2- Carbon Composites for Inert Cathode Applications in Aluminium Electrolysis		
			Shahid Akhtar, Norway		
15:00	25-56	KN	Radar Absorbing Materials for Stealth Applications - A Comprehensive Review		
			Amjad Ali, Pakistan		
15:40-16	5:00		Tea Break		

Session-23 (Room 108)

Thursday, October 30, 2025 Time 14:00-15:40

Chairperson: Dr Yasemin Tabak & Dr Yasir Khan

14:00	25-216	VL	EPR Spectroscopy on Radiation Detection Materials: a Story of Traps and Activators Henk Vrielinck, Belgium	
14:40	25-277	VL	Green Tribology: Status and Perspectives Mitjan Kalin, Slovenia	
15:20	25-228	VL	Metal-Organic Frameworks: Catalyzing the Future of Biomass Transformation Eduardo Schott, Chile	
15:40-16	5:00		Tea Break	
	Session-24 (Poster-02) Thursday October 30, 2025 Time 16:00-17:15			

Thursday, October 30, 2025 Time 16:00-17:15

25-191	Enhancement of Mechanical Properties and Microstructural Improvement of Investment Cast Inconel 718 through Optimized Heat Treatment
	Muhammad Maaz Zafar, Khalid Mehmood, Shabbar Abbas Rizvi, Pakistan
25-195	Bismuth Oxybromide Nanoparticles Synthesis and Characterization for Anti-Cancer Applications
	Rabbia Sani, Muhammad Asif Hussain, Hamid Saeed, Kabeer Raza, Aqil Inam, Adnan Maqbool, Pakistan
25-196	Electrochemical Performance of Novel Poly (O-Toluidine) Based Transition Metal Oxide Nanocomposites as Efficient Energy Storage Materials for Supercapacitors
	Mohammad Sohail, Rizwan Ullah, Pakistan
25-198	Layered Double Hydroxide-Based Membranes for Advanced Water Treatment
	Farhat Saira, Pakistan

25-199	Effect of Nickel Ferrite on the Mechanical and Electromagnetic Shielding Performance of Graphene Oxide-Reinforced Woven Carbon Fiber Epoxy Composites
	Mohammad Ahmer Ejaz, Mohsin Ali Raza, Pakistan
25-200	Comparative Study of Manganese and Cobalt Oxides and Phosphates: AC Electrical and Electrochemical Performance for Energy Storage Applications
	Haider Ali, Dr. Muhammad Anis ur Rehman, Pakistan
25-201	Synthesis and Characterization of Iron Oxide Nanoparticles Decorated Metal-Organic Framework for Enhanced Drug Delivery Systems
	Bahroz Rashid, Tehmina Azam, Hadia Riaz, Waheed Miran, Zakir Hussain, Sumera Khizar, Xizi Long, Usman Liaqat, Pakistan
25-202	Structure and Properties of High Entropy Bulk Metallic Glass Composite
	Ahmad Saeed, Murtaza Khan, Syed Zameer Abbas, Rashid Ali, Abdul Wadood, Pakistan
25-203	Influence of Rare Earth Doping and GO Integration on the Supercapacitor Behavior of Cobalt Ferrite
	Samia Sadaqat, Waqar Mahmood, Muhammad Anis-ur-Rehman, Pakistan
25-204	Cobalt Doped Birnessite Magnesium Manganese Oxide as High-Performance Cathode Material for Hybrid Supercapacitor Application
	Muhammad Umair Idrees, Pakistan
25-209	Effect of Temperature on Dielectric and Electrical Properties of Manganese Doped Co-Zn Ferrites
	Haroon Mazhar, Muhammad Anis-ur-Rehman, Pakistan
25-210	Rare Earth Doped Cobalt Ferrite: Sol-Gel Approach to Enhance Transport Properties for Electronic Applications. Haroon Mazhar, Muhammad Anis-ur-Rehman, Pakistan
25-211	Optimization of Electron Beam Welding Parameters of Austenitic 321-Type Stainless Steel
	Fakhar Alam Zeb, Hussain Imran Jaffery, Pakistan

25-212	Facile Synthesis and Transport Properties in Rare Eatrh Co- Doped Co-Zn Nanoparticles
	Aniqa Arshad, Anees-ur-Rehman, Pakistan
25-213	Microstructure Evaluation of High Strength Bainitic Steel and Development of Heat Treatment Process to Achieve the Mechanical Properties Required for Flow Forming Process
	Abdul Muiz, Muhammad Mudassar Rauf, Naveed Ahmed Siddiqui, Dr. Syed Shabbar Abbas Rizvi, Pakistan
25-214	Synergistic Role of Thermomechanical Processing and Alloying in Enhancing Fe-B Microstructure and Properties of Fe-B Alloys
	Tajamul Khan, Muhammad Moaaz Zafar, Khalid Mehmood, Pakistan
25-218	Examination of Magnetic Domains by Iron Nano Particles Using Metallography Technique
	Wareesha Hasan, Pakistan
25-219	Effect of Cold Working and Heat Treatment Variations on the Microstructural Evolution and Mechanical Properties of 15-5 PH Stainless Steel
	Muhammad Maaz Zafar, Khalid Mehmood, Talha Ahmed, Dr Shabbar Abbas Rizvi, Pakistan
25-220	Synthesis and Characterization of Graphene - Manganese Oxide (MnO2) Nanorods Composite for High Performance Super Capacitor
	Bahroz Rashid, Ghulam Fareed, Ehsan Pervaiz, Pakistan
25-221	Rare Earth Doped Cobalt Ferrite: a Sol-Gel Approach to Enhance Transport Properties for Re-RAM Applications
	Haroon Mazhar, Muhammad Anis-ur-Rehman, Pakistan
25-222	Ce-Doped Zn-Co Ferrite with Tunable Electrical Properties for High-Temperature Applications Harrow Marker Muhammad Anis un Behman Sehar Attique Bakistan
25-224	Haroon Mazhar, Muhammad Anis-ur-Rehman, Seher Attique, Pakistan A Brief Study of the Ephanced Structural and Electrical
	A Brief Study of the Enhanced Structural and Electrical Properties of Samarium-Doped Cobalt Ferrite Nanoparticles for Potential Resistive RAM Applications
	Halima Ramzan, Ayesha Saif, Muhammad Anis-ur-Rehman, Pakistan

25-226	Optimization of Pulsed Nd:YAG Laser Welding Parameters for Ultra-Thin Austenitic Stainless Steel Sheets (AISI 304): Microstructure and Mechanical Performance
	Dr. Shahroz Sakhawat, Pakistan
25-227	Micro-Plasma Arc Welding of 0.5 Mm Ultra-Thin 304L Stainless Steel Sheets: Effect of Welding Current on Distortion, Microstructure, and Mechanical Properties
	Dr. Shahroz Sakhawat, Pakistan
25-230	Synergistic Effect of MnCo2O4 Spinal and Ti3C2Tx MXene
	Arif Ullah, Pakistan
25-231	Transition Metal Selenides: a Pathway to High-Energy and High-Power Hybrid Supercapacitors
	Anique Ahmed, Muhammad Ramzan Abdul Karim, Muhammad Usman, Pakistan
25-233	Room Temperature 3D Printing of Tantalum Oxide Scaffold: an Initial Study on Rheology, Printability and Textural Properties
	Mian Sami Mudassir, Muhammad Atiq ur Rehman, Syed Muneeb Haider Gillani, Pakistan
25-234	Preparation and Characterization of Liposomes Loaded with Phenolic Extract of Zingiber Officinale
	Sheeraz, Sana Naseer, Pakistan
25-235	Synthesis of copper oxide nanoparticles from leaves of Citrus sinuses and use as Nano fertilizer for the growth of Capsicum annum
	Dr Sadaf Anwaar, Pakistan
25-236	Direct Ink Write 3D Printed Polyether-Ether Ketone/Sodium Alginate Scaffolds Coated with Ag-Sr Doped Hydroxyapatite for Potential Dental Tissue Engineering Applications: a Detailed In-Vitro Analysis Syed Muneeb Haider Gillani, Muhammad Atiq Ur Rehman, Pakistan

25-237	Multilayer Architecture for Enhanced Adhesion and Tribological Performance of Magnetron-Sputtered MoS2 Coatings
	Abdul Raheem Sufyan, Haider Ali Ansari, Dr. Asad Ali Dilawary, Pakistan
25-238	Flow-Induced Scaffold Formation and Surface Enhancement in Ionomer-Modified Polyethylene Blown Films
	Dr. Sarmad Ali, China
25-239	Adsorption-Engineered Graded Coating Directs Uniform LiF-Rich SEI Throughout Robust Si/C Anodes
	Dr. Nian Li, China
25-241	Lanthanum-Substituted Mn-Zn Ferrites: Structural, Dielectric and Electrical Properties for High Frequency Applications
	Haroon Mazhar, Muhammad Anis-ur-Rehman, Sumaira Komal, Pakistan
25-243	A Study on Structural, Electrical and Optical Properties of Gallium Doped Cobalt Ferrite Nanoparticles Synthesized Via. Sol-Gel Method
	Sadia Kousar, Dr. M. Anis-ur-Rehman, Pakistan
25-245	Correlation of Structural and Electrical Properties of Gadolinium-Substituted Cobalt Ferrites for Data Storage Applications
	Marjan Asif, Maryum Aftab, M.Anis-ur-Rehman, Pakistan
25-246	Optimizing Melting Practice and Multi-Pass Cold Drawing for Manufacturing of High-Leaded Brass (Cu-Zn-Pb) Functional Wire
	Muhammad Farooq Iqbal, Talha Ahmed, Ahnaf Usman, Shabbar Abbas Rizvi, Pakistan
25-247	Particles Embedded Electrospun Nanofibers for Soft Electronics
	Esha Faisal, Haider Ali, Ambreen Zahra, Haroon Mazhar, M. Anis ur Rehman, Pakistan
25-248	Rare-Earth Modified Cobalt Ferrites Driving Next- Generation Structural and Electrical Performance
	Maryum Aftab, Marjan Asif, M. Anis-ur-Rehman, Pakistan

25-249	Synthesis / Characterization of Perovskite Ceramics for Different Electronic Applications
	Syed Muhammad Maqsood Ali Naqshbandi, Muhammad Hassan Khalid, Pakistan
25-250	Gd-Doped Cobalt Ferrites: Linking Nanostructure to Next-Generation Resistive Memory
	Marjan Asif, Maryum Aftab, M. Anis-ur-Rehman, Pakistan
25-251	Rare-Earth Modified Cobalt Ferrites Driving Next- Generation Structural and Electrical Performance
	Maryum Aftab, M.Anis-ur-Rehman, Marjan Asif, Pakistan
25-252	Humidity Sensing Using Molybdenum-Doped Aluminum Oxide/ Reduced Graphene Oxide Composite Material
	Ruqaia Shahzad, Dr.Waqar Mehmood, Dr.Zahid Imran, Pakistan
25-253	Synthesis, Characterization and Photocatalytic Activity of Cerium (Ce) Metal Based Metal Organic Frameworks
	Deena Rani, Mohammad Sohail, Pakistan
25-254	A Study on the Effect of Bioactive Glass and Hydroxyapatite-Loaded Xanthan Dialdehyde-Based Composite Coatings for Potential Orthopedic Applications
	M. Haseeb Nawaz, Pakistan
25-255	Development and Characterization of Biomimetic Materials via Sol-Gel Method
	Aiman Akram, Aleena, Summaiya Saqib, Pakistan
25-256	Synthesis and Characterization of Ceria Doped Silica Nanoparticles Through Chemical and Green Method for Gas Sensor Application
	Syeda Sarah Zehra Zaidi, Syed Muhammad Mohsin, Pakistan
25-257	Synthesis, Characterization, Electrochemical and Photocatalytic Performance of Cerium-Titanium Based Bimetallic Metal Organic Frameworks (BMOFs)
	Mohammad usman, Deena Rani, Pakistan
25-258	Green Synthesis and Characterization of Date Seed Extract Mediated Strontium Carbonate Nanoparticles for Effective Curcumin Loaded Drug Release
	Qurat-ul-ain Arif, Waheed Miran, Aneela Javed, Usman Liaqat, Pakistan

25-259	Structural and Electrical Transport Properties of Transition Metal Oxide Composite with CNTs		
	Ruqia Masroor, Muhammad Anis-ur-Rehman, Pakistan		
25-260	Sustained Linalool Releasing PVA/Gellan Gum Hydrogel for Infectious Burn Wounds: Characterized In-Vitro		
	Fahad Rashid, Pakistan		
25-261	PVP@rGO Nanocomposites with Tunable Optical- Electrical Coupling for High-Performance Photodetectors		
	Muhammad Sulaman, Ammarah Afzal, China		
25-263	Tailoring NiCoMn Metal Organic Frameworks Performance Using Multiwalled Carbon Nanotubes for Supercapacitor Applications		
	Areeba Sajid, Daniyal Ahmed Shaikh, Jawad Jawaid, Mohsin Ali Marwat, Pakistan		
25.254	Electron Beam Welding of Dissimilar Metals		
25-264	Fakhar Alam Zeb, Pakistan		
25-265	Numerical Simulation and Efficiency Optimization of Novel N-I-P Planner Structure of Triple Cation Perovskite with PEDOT:PSS+WO3 Nanoparticles Composite as Hole Transport Layer		
	Irshad Ali, Shanza, Syed Azkarul Hasan, Haleema Sadia, Lyba Siddiqui, Pakistan		
25-266	Experiment-Anchored SCAPS-1D Design of CsPbIBr2/Cs2CuSbCl6 Tandems: Thickness-Defect Synergy, Band Alignment, and Interface Limits		
	Lyba Siddiqui, Irshad Ali, Haleema Sadia, Syed Azkar Ul Hasan, Shanza Rehan, Pakistan		
25-267	Remaining Life Assessment of Service Exposed Turbine Blades via Microstructure Evaluation		
	Madiha Nazir, Sabah Zaman, Pakistan		
25-269	Microwave Assisted Synthesis of NiCoCu-MOF for Energy Storage Applications.		
	Muhammad Arqam Karim, Muhammad Ramzan Abdul Karim, Anique Ahmed, Pakistan		
25-270	Degradation Study of Carbon Filled Ethylene Propylene Diene Monomer (EPDM) Rubber		

		Sumaira Naz, Hassan Waqas, Abdul Basit, Pakistan
	25-271	Synthesis of Hexagonal Nanoferrite Magnetic Material: a Novel Electrochemical Platform for Caffeine Sensing in Beverages
		Sajjad Hussain, Pakistan
	25-272	Development of Therapeutic Ions Loaded Oxidized Guar Gum and Sodium Alginate-Based 3D Printed Biomimetic Scaffolds Investigated In-Vitro and In-Vivo for Burn Wound Repair
		M. Haseeb Nawaz, Pakistan
25-273		Structural and Magnetic Optimization in Ba2Bi (9-x)Fe(5+x)Ti8O39 : a Study of Tetragonal Tungsten Bronzes
		Sajida Sheikh, Pakistan
	25-274	Synthesis and Electrochemical Studies of Zinc-Vanadate- CNTs Nanocomposites for Energy Storage Devices
		Nohman Saleem, Muhammad Tariq Jan, Amna Safdar, Syed Mustansar Abbas, Pakistan
	25-276	Microstructural Improvement and Mechanical Strength Enhancement of AA 6082 Aluminum Alloy Through Advanced Extrusion Cooling and Heat Treatment Strategies
		Nouman Zubair, Usman Waheed, Wali Muhammad, Shabbar Abbas, Pakistan
	25-280	Synthesis, Characterization and Anticancer Activity of New Heteroleptic Palladium (II) Compounds
25-281 25-282		Hamid Nawaz, Ahnaf Usman Zillohu, Muhammad Farooq Iqbal, Rizwan Khan, Shabbar Abbas Rizvi, Pakistan
	25-281	Synthesis, Characterization, Biological Sereening and Interaction with Calf Thymus DNA of Schiff Base (N1E,N2E)-N1,N2-Dibenzylideneethane-1,2-Diamine
		Hamid Nawaz, Ahnaf Usman Zillohu, Muhammad Farooq Iqbal, Rizwan Khan, Wali Muhammad, Shabbar Abbas Rizvi, Pakistan
	25-282	Temperature Dependent Impedance Spectroscopy of Ce Substituted Spinel Cobalt Ferrites
		M Kamran, Sadia Kousar, Haroon Mazhar, M Anis-ur-Rehman, Pakistan

25-283			Temperature and Frequency Dependence of Transport Properties in Gadolinium Substituted Cobalt Ferrite M Kamran, Sadia Kousar, Haroon Mazhar, M Anis-ur-Rehman, Pakistan
17:15-1	7:25		Ice Cream
			Session-25 (Main Hall)
		Fric	day, October 31, 2025 Time 09:00-10:40
Chairperson: Dr Shaheed Khan & Dr Atilla Evcin			
09:00	25-144	KN	Recent Developments in Stabilization of Perovskite Solar Cells (PSCs)
			Nadia Shahzad, Pakistan
09:40	25-143	KN	Study of Ion Migration in Perovskite Solar Cells
			Muhammad Sultan, Pakistan
10:20	25-180		Role of Metallic Binders in Advancing NbC Cermets for Engineering Ceramic Applications Abdul Basit, Pakistan
			•
10:40- 11:00			Tea Break
11.00			Session-26 (Room 108)
		Frida	y, October 31, 2025 Time 09:00-10:40
	C	hairp	erson: Dr Aamir Nusair & Dr Khalid Shah
09:00	25-64	KN	Advanced Sensing Platforms Based on Polymer-Metal Nanocomposites with AI-Driven Mobile Interfaces Muhammad Imran Malik, Pakistan
09:40	25-155		Structural and Electrical Insights of Ceria-Based Electrolyte Materials for SOFCs
			Hafiz Zain Ul Abideen, Pakistan
10:00	25-108		Crosslinked Gelatin-Based Hydrogel Incorporated with Clay for Drug Release Applications
			Sadia Sagar, Pakistan

10:20 10:40-11	25-106 1:00		Exploring the Potential of Green Synthesized Sr0.8Ce0.2Fe0.8Co0.2O3 Using Orange and Lemon Extracts for Hybrid Supercapacitor Applications <i>Dr. Mohsin Ali Raza, Pakistan</i> Tea Break
			Section 27 (Main Hell)
		Frid	Session-27 (Main Hall) lay, October 31, 2025 Time 11:00-12:40
	Chai		on: Dr Muhammad Mujahid & Dr Mohsin Ali
11:00	25-208	KN	Electrospinning Technique for Nanofiber Production: Fundamentals, Properties and Applications Atilla Evcin, Turkey
11:40	25-206	KN	Research on High-Energy Beam-Induced 3D Graphene Monoliths and their Electrode
			Zhenyang Wang, China
12:20	25-178		Innovative Heteroleptic Ru(II) Photosensitizers for Efficient Dye-Sensitized Solar Cells
			Saba Ashraf, Pakistan
12:40- 1400			Lunch Break
Session-28 (Room 108)			
		Fri	day, October 31, 2025 Time 11:00-12:40
	Chair	perso	n: Dr Imran Malik & Dr Hamid Zaigham
11:00	25-84	KN	Elucidating the Underlying Mechanism of Bead Formation for Laser Welding, Gas Metal Arc Welding, Laser-Arc Hybrid Welding and Friction Stir Welding Dr. Muhammad Sohail, Pakistan
11:40	25-34		Detection and Characterization of Natural Defects in Welded Steel Plates and Forgings
			Muhammad Kamran Shoukat, Pakistan

12:00	25-60	Microstructure, Composition and Mechanical Properties of Laser Welded Nitinol Joint
		Qazi M. Yaseen, Pakistan
12:20	25-244	Investigation into Electron Beam Welding of Inconel 718 Fakhar Alam Zeb, Pakistan
12:40-14:00		Lunch Break