



International Conference on Materials Engineering

June 2-4, 2017

Indian Institute of Technology Kanpur



Program Schedule

Outreach Building, IIT Kanpur

Date/Time		*8:15 - 9:00	9:00 - 11:00		11:30 - 13:00		14:00-16:00	16:00-17:00	17:00-19:30			
2 nd June	Breakfast	P1	S1	Tea	F1	Lunch	S2	Poster Session + Tea	F2	Dinner		
3 rd June		P2	F3		F4		S3	Poster Session + Tea	S4			
		8:00 - 10:00		10:30 - 12:30	12:30 - 13:00		* Inaugural Session: June 2 (8:00 - 8:15)					
4 th June		S5	Tea	F5	Prize distribution + Valedictory session							

P: Plenary	S: Structural Materials	F: Functional Materials
P1: Plenary 1 P2: Plenary 2	S1: High Strength Alloys S2: Non-equilibrium Processing S3: Microstructural Characterization S4: Ceramics and Composite Materials S5: Mechanical Properties	F1: Biomaterials F2: Nano and 2D Materials F3: Energy Materials F4: Organic and Hybrid Electronic Materials F5: Electronic and Magnetic Materials



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P1	S1	F1	S2	F2
Prof. H. Gleiter	Dr. S. Banerjee Prof. D. Banerjee Prof. K. Chattopadhyay Prof. A. Chokshi	Prof. Lin Li Prof. B. Basu Prof. V. Verma	Dr. G. Padmanabham Prof. B. S. Murty Prof. P. Venkitanarayanan Dr. R. Tewari	Prof. W. Lojkowski Prof. S. Kumar Ray Prof. B. R. Mehta Prof. A. Dodabalapur Mr. P. Denis
P2	F3	F4	S3	S4
Prof. A. Sood	Dr. R. N. Basu Prof. S. Ram Dr. R. Gopalan Prof. A. J. Pal	Prof. S. Mukhopadhyay Prof. Deepak Prof. E. Namdas	Dr. D. Bhattacharjee Prof. N. Ueshima Dr. K. Madangopal Dr. S. G. Chowdhury	Prof. Manoj Gupta Dr. K. Muraleedharan Dr. N. Eswara Prasad Prof. B. S. S. Daniel Prof. N. V. Ravikumar
S5	F5			
Dr. S. C. Sharma Prof. N. K. Mukhopadhyay Dr. S. Tarafdar Prof. R. Mitra	Dr. S. Kamat Prof. A. Garg Prof. A. Kulkarni Prof. D. Pandey			



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Plenary and Invited Talks



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Day 1: June 2, 2017

Breakfast (7:30 – 8:00)			
Inaugural Session (8:00 – 8:15)			
Speaker	Affiliation	Time	Title of Talk
Plenary I			
Chair: Prof. S. Banerjee		Co-Chair: Prof. S. Sangal	
Prof. H. Gleiter	Karlsruhe Institute of Technology, Germany	8:15 – 9:00	Nanoglasses: Nanostructured Non-Crystalline Solids with New Tunable Structures and Properties
Structural Materials (S1): High Strength Alloys			
Chair: Prof. B. S. Murty		Co-Chair: Prof. P. Venkitanarayanan	
Dr. S. Banerjee	Bhabha Atomic Research Centre, India	9:00 – 9:30	Evolution of Microstructures in Laser Processed Grey Cast Iron
Prof. D. Banerjee	Indian Institute of Science Bangalore, India	9:30 – 10:00	Novel High Temperature, High Strength Eutectic Intermetallics
Prof. K. Chattopadhyay	Indian Institute of Science Bangalore, India	10:00 – 10:30	Designing High Temperature Alloys with Ordered Precipitates
Prof. A. Chokshi	Indian Institute of Science Bangalore, India	10:30 – 11:00	High Temperature Deformation in Fine Grained High Entropy Alloys
Tea (11:00 – 11:30)			
Functional Materials (F1): Biomaterials			
Chair: Prof. D. Banerjee		Co-Chair: Prof. N. Ueshima	
Prof. Lin Li	The University of Manchester, UK	11:30 – 12:00	Laser-based Bio-manufacturing
Prof. B. Basu	Indian Institute of Science Bangalore, India	12:00 – 12:30	Size-tailored Gold nanoparticles: Novel Therapeutic Agents as Electroactuators to Guide Stem Cell Differentiation
Prof. V. Verma	Indian Institute of Technology Kanpur, India	12:30 – 13:00	Agarose as Potential Wound Dressing Material
Lunch (13:00 – 14:00)			



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Structural Materials (S2): Non-equilibrium Processing

Chair: Prof. Lin Li

Co-Chair: Prof. A. Subramaniam

Dr. G. Padmanabham	International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), India	14:00 – 14:30	Some Microstructural Effects Observed in Laser Processing of Steels
Prof. B. S. Murty	Indian Institute of Technology Madras, India	14:30 – 15:00	Excitement & Challenges in High Entropy Alloy Research
Prof. P. Venkitanarayanan	Indian Institute of Technology Kanpur, India	15:00 – 15:30	Compressive Strength of TiB ₂ -Ti Bi-layer Composites under High Strain Rate Loading
Dr. R. Tewari	Materials Science Division, BARC, India	15:30 – 16:00	Phase Transitions under Non Equilibrium Conditions

Poster Session (16:00 – 17:00)

Functional Materials (F2): Nano and 2D Materials

Chair: Dr. K. Muraleedharan

Co-Chair: Prof. S. Shekhar

Prof. W. Lojkowski	Institute of High Pressure Physics, Poland	17:00 – 17:30	Green Nanotechnology Exploiting Microwaves, Ultrasounds and High Pressures to Produce Nanoparticles, Nanocoatings and Nanocomposites
Prof. S. K. Ray	S. N. Bose National Centre for Basic Sciences, India	17:30 – 18:00	Semiconductor Nanostructures for Multifunctional Devices
Prof. B. R. Mehta	Indian Institute of Technology Delhi, India	18:00 – 18:30	Studying Nanoscale Interfaces in 2D-3D Hetrojunctions
Prof. A. Dodabalapur	The University of Texas at Austin, USA	18:30 – 19:00	Defects and Impurities in Graphene and Graphene Nanoribbons and their Amelioration
Mr. P. Denis	Ulm University, Germany	19:00 – 19:30	Growth Mode Transition in Au-Based Metallic Glass Thin Films

Film-Utsava (19:30 – 20:30)

Dinner (20:30 – 22:00)



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Day 2: June 3, 2017

Breakfast (7:30 – 8:00)			
Speaker	Affiliation	Time	Title of Talk
Plenary II			
Chair: Prof. A. Chokshi		Co-Chair: Prof. S. Das	
Prof. A. K. Sood	Indian Institute of Science Bangalore, India	8:15 – 9:00	Deconstructing Materials through Experiments on Colloids
Functional Materials (F3): Energy Materials			
Chair: Prof. S. K. Ray		Co-Chair: Prof. S. Ingole	
Dr. R. N. Basu	Central Glass and Ceramic Research Institute, India	9:00 – 9:30	Role of Functional Materials in Developing Solid Oxide Fuel Cell Technology
Prof. S. Ram	Aarhus University, Denmark	9:30 – 10:00	Photon-Trapping and Spectrum Upconversion Approaches for Enhanced Photovoltaics
Dr. R. Gopalan	International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), India	10:00 – 10:30	The Role of Magnets, Li-ion Battery and Thermoelectric Materials for Automotive Applications
Prof. A. J. Pal	Indian Association for the Cultivation of Science, India	10:30 – 11:00	Solar Cell Materials Beyond Silicon: Indian Perspective
Tea (11:00 – 11:30)			
Functional Materials (F4): Organic and Hybrid Electronic Materials			
Chair: Prof. M. Gupta		Co-Chair: Prof. A. Gaur	
Prof. S. Mukhopadhyay	Wright State University, USA	11:30 – 12:00	Three-Dimensional Hierarchical Hybrid Architectures for Robust Multifunctional Materials
Prof. Deepak	Indian Institute of Technology Kanpur, India	12:00 – 12:30	Flexible Pressure Sensor and Non- Volatile Memory Based on PVDF-TrFE Electronics
Prof. E. Namdas	University of Queensland, Australia	12:30 – 13:00	Novel Organic Optoelectronic Devices
Lunch (13:00 – 14:00)			



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Structural Materials (S3): Microstructural Characterization

Chair: Dr. S. Kamat

Co-Chair: Prof. K. Kulkarni

Dr. D. Bhattacharjee	Tata Steel, Kolkata	14:00 – 14:30	Making Money from Materials - The Future of Advanced Structural Materials
Prof. N. Ueshima	Tohoku University, Japan	14:30 – 15:00	Microstructure after Forging and Heat Treatment in Superalloy 718
Dr. K. Madangopal	Bhabha Atomic Research Centre, India	15:00 – 15:30	Martensitic Microstructure of Shape Memory Alloys
Dr. S. G. Chowdhury	National Metallurgical Laboratory, India	15:30 – 16:00	Applying Texture Analysis to Optimize the Thermomechanical Processing Schedule

Poster Session (16:00 – 17:00)

Structural Materials (S4): Ceramics and Composite Materials

Chair: Prof. K. Chattopadhyay

Co-Chair: Prof. D. M. Afzal Khan

Prof. M. Gupta	National University of Singapore, Singapore	17:00 – 17:30	Magnesium Alloy/Nano-Metastable-Syntactic Composites For Sustainable Future
Dr. K. Muraleedharan	Central Glass and Ceramic Research Institute, India	17:30 – 18:00	Development of Advanced Glass and Ceramic Materials for Strategic Applications
Dr. N. Eswara Prasad	Defence Materials & Stores and R&D Establishment (DMSRDE), India	18:00 – 18:30	Functional Materials and Composites for Indian Defence
Prof. B. S. S. Daniel	Indian Institute of Technology Roorkee, India	18:30 – 19:00	Ultrasonication Assisted In-situ Al ₃ Ti Reinforced Al Alloy Composite
Prof. N. V. Ravikumar	Indian Institute of Technology Madras, India	19:00 – 19:30	Microstructural Design of Precursor Derived Hf/Zr- Si-(O)-C-(N) Nanocomposites

Film-Utsava (19:30 – 20:30)

Dinner (20:30 – 22:00)



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Day 3: June 4, 2017

Breakfast (7:30 – 8:00)			
Structural Materials (S5): Mechanical Properties			
Chair: Dr. D. Bhattacharjee		Co-Chair: Prof. S. Omar	
Dr. S. C. Sharma	Indian Space Research Organization (ISRO), India	8:00 – 8:30	Development of Thermostructural Materials for Indian Space Programme
Prof. N. K. Mukhopadhyay	Indian Institute of Technology (BHU), India	8:30 – 9:00	Stability and Grain Size Softening in Mechanically Milled Nanostructured Al-base Complex Intermetallics
Dr. S. Tarafdar	National Metallurgical Laboratory, India	9:00 – 9:30	The Mechanics of Damage Evolution in Material Microstructures
Prof. R. Mitra	Indian Institute of Technology Kharagpur, India	9:30 – 10:00	Molybdenum and Niobium Silicide Based Multiphase Alloys: Structure-Property Relations and High Temperature Oxidation Behavior
Tea (10:00 – 10:30)			
Functional Materials (F5): Electronic and Magnetic Materials			
Chair: Prof. S. Mukhopadhyay		Co-Chair: Prof. E. Namdas	
Dr. S. Kamat	Defence Metallurgical Research Laboratory, India	10:30 – 11:00	Rare Earth Permanent Magnets
Prof. A. Garg	Indian Institute of Technology Kanpur, India	11:00 – 11:30	Quest for Room temperature Multiferroic Materials
Prof. A. Kulkarni	Indian Institute of Technology Bombay, India	11:30 – 12:00	Multiferroic and Magnetoelectric Materials: Our Activities
Prof. D. Pandey	Indian Institute of Technology (BHU), India	12:00 – 12:30	Incommensurate Premartensite and Martensite Phases in Ferromagnetic Shape Memory Alloys
Prize Distribution + Valedictory Session (12:30 – 13:00)			
Lunch (13:00 – 14:00)			



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Poster Session



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Day 1: June 2, 2017 (16:00 – 17:00)

Structural Materials (S1): High Strength Alloys

Sr. No.	Presenting Author	Affiliation	Title
S1.1.	Biswajit Sengupta	Indian Institute of Technology Kanpur	A Ultrahigh Strength Titanium Alloy Designed with Low Cost Alloying Elements
S1.2.	Md. Basiruddin Sk	Indian Institute of Technology Kharagpur	Effect of Reheating Temperature and Cooling Treatment on The Microstructure, Texture and Impact Transition Behaviour of Heat Treated Naval Grade HSLA Steel
S1.3.	Vivek Verma	Indian Institute of Technology Kanpur	Interdiffusion in Constituent Systems of Fe-Ni-Co-Cr-Cu-Mn HEA'S
S1.4.	Prabhat Kumar Rai	Indian Institute of Technology Kanpur	Effect of Harmonic Structure Design on the Wear Behavior of 304L Stainless Steel
S1.5.	Prabhat Chand Yadav	Indian Institute of Technology Kanpur	Tribological Behaviour of Thermally Processed SS 316L in Sensitization Temperature Zone
S1.6.	Abhisek Mandal	Indian Institute of Technology Kharagpur	Bendability Study on High-Strength Strip Steel With Bainitic-Martensitic Structure
S1.7.	Gyanendra Pratap Singh Chauhan	Indian Institute of Technology Kanpur	Investigation of Interdiffusion and Diffusional Interactions in The Ternary Ti-Al-Mo Alloys
S1.8.	Sumeet Mishra	Indian Institute of Technology Kanpur	Effect of Temper Condition on Rolling Texture Evolution in Age Hardenable Al-Mg-Si Alloys
S1.9.	Reshma Sonkusare	Indian Institute of Technology Kanpur	Stability of Single Phase Equiatomic CoCuFeMnNi High Entropy Alloy



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Structural Materials (S3): Microstructural Characterization

Sr. No.	Presenting Author	Affiliation	Title
S3.1.	Nitin Sharma	Indian Institute of Technology Kanpur	Scaling Behavior of Misorientation Angle Distribution During Recrystallization of Cold Rolled Cu-Zn Alloy
S3.2.	Mohd. Nadeem Bhat	National Institute of Technology Srinagar	Effect of Inoculant Composition on Recalescence and Structure-Properties of SG Cast Iron
S3.3.	Bhalchandra Bhadak	IISC Bangalore	Study of Precipitate Growth Under Influence of Elasticity: Phase Field Simulations
S3.4.	V. Rajinikanth	National Metallurgical Laboratory	Determination of Dynamic Recrystallization Behavior and Microstructure Evolution of High Strength Microalloyed Pipeline Steel
S3.5.	Gaurav	Indian Institute of Technology Delhi	Quantitative Analysis of Recrystallized Volume Fraction and Microstructure Evolution of Annealed Cold Rolled Magnesium Alloy
S3.6.	Sandeep Sahu	Indian Institute of Technology Kanpur	Tailoring Triple Junction Characteristics in Inconel 600 Alloy to Improve Intergranular Corrosion Resistance
S3.7.	Siuli Dutta	National Metallurgical Laboratory	Studies on Recovery and Onset Recrystallization Behavior of 80% Cold Rolled Low Carbon Steel by Magnetic Non-destructive Evaluation
S3.8.	Aparna Tripathi	Indian Institute of Technology Kanpur	Interdiffusion and Assessment of The Diffusion Mobilities in Ti-Al-Nb β Phase
S3.9.	Shanta Mohapatra	Indian Institute of Technology Delhi	Study of Grain Growth Kinetics in Pure Magnesium



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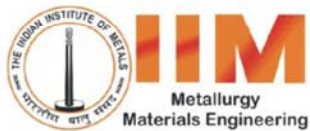
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Structural Materials (S5): Mechanical Properties

Sr. No.	Presenting Author	Affiliation	Title
S5.1.	Ravindra Kumar	Indian Institute of Technology Kanpur	Mechanical and Viscoelastic Properties of Human Hair Derived Carbon Filled Carbon-Carbon Composites
S5.2.	Vikas Shrivastava	AMPRI, Bhopal	Influence of Nanoalumina Particles on The Mechanical Properties of Al-6061 Alloy
S5.3.	Niraj Singh Mehta	Indian Institute of Technology (BHU), Varanasi	Effect of Sintering on Mechanical and Electrical Properties After Addition of Silica in Aluminous Based Porcelain Insulator
S5.4.	Subhasis Sinha	Indian Institute of Technology Kanpur	Effect of Twinning on Tensile and Cyclic Deformation Behaviour of Hexagonal Close Packed Titanium
S5.5.	Anish karmakar	Indian Institute of Technology Kharagpur	Tensile Behavior of Ferrite-Carbide and Ferrite-Martensite Steels With Different Ferrite Grain Structures
S5.6.	Dewika Mishra	Indian Institute of Technology Bombay	Understanding the Friction and Wear of Zircaloy-4 During Pilgering Process
S5.7.	Amit Singh	Indian Institute of Technology Kanpur	Effect of Strain Path Change on Texture and Mechanical Properties of Aluminium Copper Manganese Alloys



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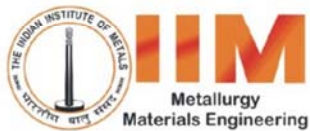
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Functional Materials (F1): Biomaterials

Sr. No.	Presenting Author	Affiliation	Title
F1.1.	Alesh Kumar	National Institute of Technology Kurukshetra	Antibacterial Effect of Silver Doped Calcium Borosilicate Glass-Ceramic Nanoparticles
F1.2.	Md. Ershad	Indian Institute of Technology (BHU), Varanasi	Effect of Samarium Oxide Substitution on Mechanical Behavior and Biological Properties of Bioactive Glass and Glass-Ceramics
F1.3.	Chithra Parameswaran	Indian Institute of Technology Bombay	Rapid Single Step Fabrication of Porous Elastomer for Biomedical Application
F1.4.	Prafulla Kumar Mallik	Indira Gandhi Institute of Technology, Sarang	Fabrication and Characterization of Bioelectronic Al_2O_3 - $CaTiO_3$ Nanocomposite for Biomedical Application.
F1.5.	Suhela Tyeb	Indian Institute of Technology Kanpur	Agarose Based Drug Delivery System for Surgical and Wound Dressings
F1.6.	Pramod Kumar	Indian Institute of Technology (BHU), Varanasi	New Developments in Alloys for Biomedical Applications
F1.7.	Akansha Dixit	DMSRDE, Kanpur	Double Network pH-responsive Smart Hydrogels for Self-healing Application



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Functional Materials (F2): Nano and 2D Materials

Sr. No.	Presenting Author	Affiliation	Title
F2.1.	Bibekananda De	Indian Institute of Technology Kanpur	Design of a Three-Dimensional Carbon Dot Supported Copper Sulphide Nanoparticles Attached Graphene Hydrogel For Supercapacitor Application
F2.2.	Sandeep Patel	Indian Institute of Technology (BHU), Varanasi	Room Temperature Ferromagnetism in Dy ₂ O ₃ :Mn ²⁺ Diluted Magnetic Oxide Nanorods
F2.3.	Prateek	Indian Institute of Technology Kanpur	An Easy and Facile Hydrothermal Approach to Synthesize 0-D And 1-D Barium Titanate (BaTiO ₃) Nanostructures Using Hydrogen Titanate (H ₂ Ti ₃ O ₇) as Precursor
F2.4.	Bhasha	Netaji Subhash Institute of Technology (NSIT)	Facile Synthesis of Chemical Reduced Graphene Oxide Reinforced Poly (Vinyl Alcohol) Nanocomposite Thin Films to Enhance Its Electrical Conductivity
F2.5.	Aditya Saxena	Indian Institute of Technology Kanpur	Synthesis of Iron Pyrite (FeS ₂) Nano-Particles by Hot Injection Method
F2.6.	Chandra Bhal Singh	Indian Institute of Technology (BHU), Varanasi	Effect of Bottom Electrode Layer on The Microstructure, Optical and Electrical Properties of KNbO ₃ -Ba(Ni,Nb)O ₃ Thin Films : AFM Study
F2.7.	Anshul Gupta	Indian Institute of Technology Kanpur	Nano Pressure Vessels Under Biaxial Stress
F2.8.	Bharat Bhushan	Indian Institute of Technology Kanpur	A Two-Step Method For Synthesis of Micron Sized Nanoporous Silver Powder and ZnO Nanoparticles
F2.9.	S. Gowthamaraju	Indian Institute of Technology Indore	Influence of Varying Morphology on The Electrical, Optical and Thermal Properties of Nano-Structured SnSe



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F2.10.	Shikha Awasthi	Indian Institute of Technology Kanpur	Synergistic Effect of Carbonaceous Reinforcements on Microstructural, Electrochemical, Magnetic and Tribological Properties of Electrophoretically Deposited Nickel
F2.11.	Suboohi Shervani	Indian Institute of Technology Kanpur	Multi-Mode Hydrogen Storage in Nanocontainers
F.2.12.	Prabhat Kumar Singh	University of Lucknow	Synthesis and characterizations of nanostructured Ru doped ZnO



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Day 2: June 3, 2017 (16:00 – 17:00)

Structural Materials (S2): Non-equilibrium Processing

Sr. No.	Presenting Author	Affiliation	Title
S2.1.	Nidhi Khobragade	NIFFT, Ranchi	Synthesis and Characterization of Crymilled Nanocrystalline Cu-Zr Alloy
S2.2.	Sandeep Kumar	Indian Institute of Technology Roorkee	Characterization of Cold Forged Spray-Formed Al-6Si-20Pb Alloy
S2.3.	Pranabananda Modak	Indian Institute of Technology Kharagpur	Effect of Texture and as Cast Structure on Recrystallization Phenomena in Ferritic Stainless Steel and its Effect on Mechanical Properties
S2.4.	Vikas Shivam	Indian Institute of Technology (BHU), Varanasi	Synthesis and Properties Evolution of AlCoCrFeNiMn High Entropy Alloy (HEA) Processed by Mechanical Alloying and Microwave Sintering
S2.5.	Sumit Sharma	Indian Institute of Technology Kharagpur	Parameter Optimization for Electron Beam Surface Melting of Inconel 718
S2.6.	Atanu Paul	IEST, Shibpur	Optimizing Parameters for Obtaining High Joint Efficiency While Welding AA5083 By Friction Stir Welding
S2.7.	Manoj Kumar	Indian Institute of Technology Kharagpur	Studies on Electron Beam Surface Melting of Medium Carbon Steel
S2.8.	Khushubo Tiwari	Indian Institute of Technology Kanpur	Phase Transformation of Nanoscale Tri-Phasic Bismuth-Indium-Tin Alloy Particles Embedded in Al-Cu-Fe Quasicrystalline Matrix



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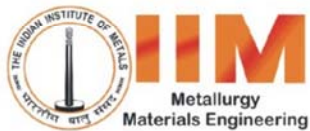
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Structural Materials (S4): Ceramics and Composite Materials

Sr. No.	Name	Affiliation	Title
S4.1.	Himanshu Raj	Indian Institute of Technology (BHU), Varanasi	A Novel Approach to Develop Porous Bioactive Zirconia Toughened Alumina Composites and Characterisation
S4.2.	Anup Patel	Indian Institute of Technology Kanpur	Tribological and Nanomechanical Analysis of Synergistic Reinforcement of Carbon Nanotube and Aluminum Oxide in Ultra High Molecular Weight Polyethylene
S4.3.	Parul Malik	Netaji Subhash Institute of Technology (NSIT)	Mechanical Properties of Surface Modified Graphene Oxide Reinforced Epoxy Nanocomposites
S4.4.	Shivanand Galaveen	Indian Institute of Technology Bombay	Development of Sic-Based Coating on Carbon Nanotubes via Facile Low Temperature Route for Improved Oxidation Resistance
S4.5.	Sanjeev Gautam	Netaji Subhash Institute of Technology (NSIT)	Fabrication of PVA/Graphene/AgNP Based Hybrid Films for Packaging Applications
S4.6.	Ambreen Nisar	Indian Institute of Technology Kanpur	Spark Plasma Sintering of Tantalum Carbide: Sintering Kinetics, Microstructural and Mechanical Properties
S4.7.	Yagnesh Shadangi	Indian Institute of Technology (BHU), Varanasi	Synthesis of Sn Reinforced Al-Cu-Fe Quasicrystalline Matrix Nanocomposite by Mechanical Alloying
S4.8	Priyasheel Sinha	DMSRDE, Kanpur	Evaluation of Mechanical and Fracture Toughness Property of Poly-aramid Fabric/Boron Carbide modified Epoxy Resin Composite
S4.9	Neetu Singh	University of Lucknow	Synthesis and Characterization of PANI and PANI/MgO Nanocomposites
S4.10	Isha Paliwal	DMSRDE, Kanpur	Non-Destructive Inspection of Kevlar/Epoxy Composite Body Armor by Impact Hammer Test



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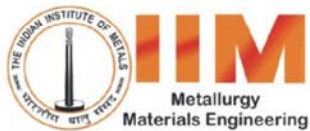
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Functional Materials (F3): Energy Materials

Sr. No.	Name	Affiliation	Title
F3.1.	Neha Kumari	Indian Institute of Technology Kanpur	Sol-Gel Synthesis and Characterization of Iron Chalcogenides (FeS_2 And Fe_2SiS_4) Thin Film
F3.2.	Astakala Anil Kumar	National Institute of Technology Kurukshetra	Effect Of TiO_2 Buffer Layer on The Performance of Perovskite SrSnO_3 Based Dye Sensitized Solar Cell at Different Aging Conditions
F3.3.	Jitendra Kumar	Indian Institute of Technology Kanpur	Investigation Of CZTS ($\text{Cu}_2\text{ZnSnS}_4$) Thin Film using Raman Spectroscopy
F3.4.	Hem Shruti Bhardwaj	Indian Institute of Technology Bombay	Effects of The Presence of Carbon Nanotubes and Impurity Phase on The Electrochemical Behavior of $\text{Na}_2\text{Ti}_3\text{O}_7$
F3.5.	Manish Chandra Joshi	Indian Institute of Technology Kanpur	NiFe Layered Double Hydroxides for High-Performance Supercapacitor Application
F3.6.	Sangha Mitra	National Institute of Technology Kurukshetra	Study of Zinc Doped Copper (II) Oxide Nanostructures as an Electrode Material for Supercapacitors
F3.7.	Alka Gupta	Indian Institute of Technology Kanpur	Ionic Conductivity Behavior of CeO_2 -8YSZ Nanocomposite Electrolyte for Solid Oxide Fuel Cell Application
F3.8.	Shubhanshu Prasi	Indian Institute of Technology (BHU), Varanasi	Development of Sodium Ion Batteries
F3.9.	L. Sowjanya Pali	Indian Institute of Technology Kanpur	Study the Role of Hole Transport Layer in the Performance of Organic Solar Cells



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Functional Materials (F4): Organic and Hybrid Electronic Materials

Sr. No.	Name	Affiliation	Title
F4.1.	Shailendra Gupta	Indian Institute of Technology Kanpur	Modeling of Time Dependent Current- Voltage (J-V) Characteristics in Normal and Inverted OSC
F4.2.	Rahul Ranjan	Indian Institute of Technology Kanpur	Fabrication and Characterization of Organic-Inorganic Hybrid Perovskite Solar Cell
F4.3.	Sarthak Acharya	Indian Institute of Technology Indore	A Novel Micro-electronic Device Fabrication For Strain Measurement & Its Application
F4.4.	Deepa Singh	Indian Institute of Technology Kanpur	Piezoelectric Response of a Flexible Touch Sensor
F4.5.	Shashikant Gupta	Indian Institute of Technology Kanpur	Effect of Processing and Characterization Conditions on Electrical Fatigues of Non-Volatile Ferroelectric Memories Based on Polymer
F4.6.	Tvarit Patel	Indian Institute of Technology Gandhinagar	Influence of Reducing Agent on Synthesis of Precise Controlled Copper Sulfide Composition Using Copper-Thiourea Complex as a Self-Sacrifice Template
F4.7.	Subhash Singh	Indian Institute of Technology Kanpur	White Light Photoresponse in Tips-Pentacene Based Organic Thin Film Transistors (OTFTs): Occurrence of Persistent Photocurrent (PPC)
F4.8.	Mukul Janbandhu	Indian Institute of Technology Kanpur	Solution Processed Zinc Oxide Film for Application in Polymer Light Emitting Diodes as Electron Injection Layer



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Functional Materials (F5): Electronic and Magnetic Materials

Sr. No.	Name	Affiliation	Title
F5.1.	Vinod Kumar Gangwar	Indian Institute of Technology (BHU), Varanasi	Magnetic Properties of Dysprosium Doped Bi ₂ Te ₃ Topological Insulator
F5.2.	Narendra Bandaru	Indian Institute of Technology Gandhinagar	Annealing Induced Electronic Defect State Transformation in Al-Doped ZnO Films
F5.3.	Hemant Kumar	Indian Institute of Technology Kanpur	Optimization of Sulfurization Process of CZT Precursor Prepared by Magnetron Sputtering For CZTS Thin Film
F5.4.	Ashutosh Pandey	Central University of Jharkhand, Ranchi	Comparative Study of Slow and Fast Sulfurization Process on CZTS Thin Film Deposited by Magnetron Sputtering using Non-Stoichiometric Compound Target
F5.5.	Prajyoti Singh	Indian Institute of Technology (BHU), Varanasi	Dynamical Magnetic Properties in Hybrid Frustrated Pyrochlore Dy _{2-x} Eu _x Ti ₂ O ₇ (x = 0.25, 0.50)
F5.6.	Naveen Kumari	National Institute of Technology Kurukshetra	Multiferroic Behavior in A- and B-Site Disordered Perovskite Bi ₂ FeYO ₆
F5.7.	Shivangi Srivastava	Indian Institute of Technology Kanpur	Soft Magnetic Properties of Equiatomic Ti ₂₀ Co ₂₀ Cu ₂₀ Fe ₂₀ Ni ₂₀ High Entropy Alloy
F5.8.	Vijayeta Pal	DMSRDE, Kanpur	Preparation, Ferroelectric and Piezoelectric Properties of Lead Free BCTZ Piezoceramics
F5.9.	Subhamoy Char	Indian Institute of Technology Kanpur	On the Intricate Electronic Structure and Phonon Dynamics of Fe-Al Alloys