

ICMAT 2019 POSTER BOARD ALLOCATION - TUESDAY, 25 JUNE 2019

Board No.	Day	Abst ID	Session	Title
002	Tue	191020	Sym A-05 Poster Session	Ar+ Ion Induced Generation of a Series of BCT Phases During Phase Transformation of Noncubic Au Microcrystallites to Cubic Lattice
003	Tue	191040	Sym A-05 Poster Session	The Fracture Behavior and Thermal Stability of Commercially Pure Nickel Sheets Processed by Constrained Groove Pressing
004	Tue	191052	Sym A-05 Poster Session	Emerging Charged Domain Walls at a Non-Ferroelectric Heterointerface
005	Tue	191113	Sym A-05 Poster Session	Optical Characterization of Grain Orientation in Metals by Directional Reflectance Microscopy
006	Tue	191163	Sym A-05 Poster Session	Measurement of InP / InGaAs Interfacial Strain Distribution by STEM Moiré Fringe Method
007	Tue	191177	Sym A-05 Poster Session	Mechanical Properties of Pt Nano-contacts Measured by TEM Combined with a Frequency-Modulation Force Sensor
008	Tue	191466	Sym A-05 Poster Session	V-pit Enclosed Stacking Faults in Long Wavelength InGaN-Based Light Emitters
009	Tue	191506	Sym A-05 Poster Session	Sub-Nanometre Scale In-Fluctuation in InGaN/GaN LEDs
010	Tue	191584	Sym A-05 Poster Session	Detection of Large Thermal Vibration for Cu Atoms in Tetrahedrite by High Angle Annular Dark Field Imaging
011	Tue	191610	Sym A-05 Poster Session	Electrochemical, Top-down Nanostructured Pseudocapacitive Electrode for Enhanced Specific Capacity and Cycling Efficiency
012	Tue	191653	Sym A-05 Poster Session	Structural and Dielectric Investigations on the Multiferroic Behavior of HoCrO ₃
013	Tue	192089	Sym A-05 Poster Session	Structural Engineering of Hybrid Organic-Inorganic Perovskites Based on Imidazolium-Type Cations
014	Tue	192123	Sym A-05 Poster Session	Study of V ₂ O ₅ Nanostructures Synthesized by Hydrothermal Method
015	Tue	192139	Sym A-05 Poster Session	Residual Strain Imaging of Ion Irradiated 4H-SiC
016	Tue	192192	Sym A-05 Poster Session	Reversible Single-Crystal-to-Single-Crystal Structural Transformation in New Copper(II) based Coordination Polymers
017	Tue	192422	Sym A-05 Poster Session	Atomic-Scale Investigation of the Ni:SrTiO ₃ Interface and Magneto-Elastic Coupling in Self-Assembled Epitaxial Vertically Aligned Nanocomposites
018	Tue	192645	Sym A-05 Poster Session	Investigation of the Molecular Stacking Structures in Chiral Columnar Phases Formed by Chiral Octahedral Metallomesogen
019	Tue	192721	Sym A-05 Poster Session	Using ⁹³ Nb Solid State NMR to Investigate the Effect of Nb Doping Upon SrTiO ₃ Thermoelectric Materials
020	Tue	192855	Sym A-05 Poster Session	Structural Evolution of LiNi _{0.5} Mn _{1.5} O ₄ Cathode Material by Low Temperature (S)TEM
022	Tue	193222	Sym A-05 Poster Session	Characterization of Baby Talc Powder Used in Thailand
023	Tue	193384	Sym A-05 Poster Session	In-Situ TEM Observation of Confined Solutions in 2D Heterostructures
024	Tue	193458	Sym A-05 Poster Session	Characterization of Surfactant Phase Transitions in the Presence of Additives
025	Tue	193459	Sym A-05 Poster Session	The Crystallographic Origin of Giant Negative Piezoelectricity in a Layered Ferroelectric
026	Tue	193462	Sym A-05 Poster Session	The Methylation Effect In Prolonging The Pure Organic RoomTemperature Phosphorescence Lifetime
027	Tue	193464	Sym A-05 Poster Session	Hydrogen Bonding-assisted Loosely Packed Crystals of a Diaminomaleonitrile-modified Tetraphenylethene Compound and Their Photo- and Mechano-responsive Properties
028	Tue	193465	Sym A-05 Poster Session	Alkyl Chain Introduction: In Situ Solar-Renewable Colorful Organic Mechanoluminescence Materials
029	Tue	193467	Sym A-05 Poster Session	An Efficient Yellow Thermally Activated Delayed Fluorescence Emitter With Universal Applications In Both Doped And Non-doped Organic Light-emitting Diodes
030	Tue	193470	Sym A-05 Poster Session	Timescales Of Events Preceding Volcanic Eruptions Inferred From Chemical Diffusion Profiles In Natural Minerals
031	Tue	193476	Sym A-05 Poster Session	In Situ X-ray Scattering of Thermally-Activated Self-Assembly of Carboxylated Polythiophene for Organic Solar Cells
032	Tue	193477	Sym A-05 Poster Session	Visualizing the Nanoscale Morphology at the Photoactive-Buffer Layer Interface of Organic Solar Cells with Analytical Electron Microscopy
033	Tue	193479	Sym A-05 Poster Session	Low-Dose Imaging of Beam-Sensitive Polymer Nanoparticles under Elevated Temperatures
034	Tue	200058	Sym A-05 Poster Session	Electron Microscopy For Aluminum Alloys As Light-Weight Industry Materials
035	Tue	190141	Sym B-05 Poster Session	Determine the Optimized Set Compliance Current for the Balanced Resistive Switching in HfO ₂ -Based Resistive Random Access Memory
036	Tue	190310	Sym B-05 Poster Session	Hot Air Assisted Ultrasonic Spray Coating for Efficient Perovskite Solar Cells in Ambient Air
037	Tue	190312	Sym B-05 Poster Session	Improvement of Transparent IGZO Thin-film Transistors Performance with Ti/ITO Bilayer as Source and Drain
038	Tue	190636	Sym B-05 Poster Session	Design of Active-Matrix Self-Capacitive Transparent Touch Panel Based on a-IGZO Thin-Film Transistors
039	Tue	190938	Sym B-05 Poster Session	Realization of the Graphene/Defective Graphene Micro Ribbon Array Fabricated by Laser Scribe

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040	Tue	190989	Sym B-05 Poster Session	Interactions at the Brominated Tetraazaperopyrene – Molybdenum Oxide Interface Studied by Infrared Spectroscopy
042	Tue	191347	Sym B-05 Poster Session	Electrical and Structural Properties of ZnO:Bi Thin Films by Pulsed Laser Deposition at Different Oxygen Partial Pressure"
043	Tue	191430	Sym B-05 Poster Session	Investigation of Micromechanical Properties of MCD and UNCD CVD Diamond Thin Films
044	Tue	191834	Sym B-05 Poster Session	Novel Entropy-Stabilized Ultra High Temperature Ceramics Thin Films Prepared by Magnetron Sputtering
045	Tue	192007	Sym B-05 Poster Session	High-Yield Phase-Transition Transition Metal Dichalcogenides on Metallic Substrates
046	Tue	192087	Sym B-05 Poster Session	Tantalum Carbide Coatings on Graphite Crucible
047	Tue	192098	Sym B-05 Poster Session	Study on the AlN/Al Diffusion Bonding using Ti Pre-metallization
048	Tue	192112	Sym B-05 Poster Session	The Challenge of Debonding within 3D Process Integration
049	Tue	192196	Sym B-05 Poster Session	Effect of Mg Content and Melting Temperature on the Oxide Film Formation and the Quality of Molten Al-Mg Alloys
050	Tue	192247	Sym B-05 Poster Session	Study of Variation in Elastic Properties of Polystyrene Films Upon Interaction with Different Analytes Using Atomic Force Microscopy
051	Tue	192288	Sym B-05 Poster Session	Aging Effect of Adhesion Strength Between Polyimide Film and Copper Layer
052	Tue	192423	Sym B-05 Poster Session	Molecularly Imprinted Polymers on Quartz Crystal Microbalance for Malathion Detection
053	Tue	192513	Sym B-05 Poster Session	Tuning Roughness of Template-Stripped Films through Interfacial Stress
054	Tue	192913	Sym B-05 Poster Session	The Structure, Oxidation Resistance and Mechanical Properties of CrAlSiNO Nanocomposite Coatings for Cutting Tools
055	Tue	192970	Sym B-05 Poster Session	Observation of the Annealing-Induced Phase-Transition in Monolayer-MoS2 on Gold Film
056	Tue	193034	Sym B-05 Poster Session	Evaluation of Au Plating for Microfabrication of Planar Ion Trap Electrodes
057	Tue	193098	Sym B-05 Poster Session	The Evaluation of Different Bonding Materials Effect on the Wafer Warpage for the 3D Interposer Fabrication
058	Tue	193122	Sym B-05 Poster Session	Graphene Formation on the Co Diffused Cu Foil
059	Tue	193403	Sym B-05 Poster Session	Microstructure Characterization of W-Ni-Fe Heavy Alloys with Optimized Metallographic Preparation Method
060	Tue	193409	Sym B-05 Poster Session	Electroplated Copper Porous Structure for Heat Dissipation Applications
062	Tue	200111	Sym B-05 Poster Session	Evaluation Characterization and Fabrication Processes of GaN
063	Tue	190343	Sym B-05 Poster Session	Determination of Band Offsets at IGZO/ β -Ga2O3 Interface by Angle-Resolved X-ray Photoelectron Spectroscopy
064	Tue	190347	Sym B-05 Poster Session	Band Alignment of Atomic Layer Deposited Al2O3/ β -Ga2O3 Heterojunctions Measured by X-ray Photoelectron Spectroscopy
065	Tue	191535	Sym E-05 Poster Session	Chiral Woodpile Morphology Optimization for Plasmonic Enhanced Enantiomeric Detection in Pharmacology Quality Management
066	Tue	192627	Sym E-05 Poster Session	Optical Alignment of Nanoparticles Using Induced Chiral Force
067	Tue	192632	Sym E-05 Poster Session	Electrically Switchable Photonic Crystals Based on Liquid-Crystal-Infiltrated TiO2-Inverse Opals
068	Tue	191618	Sym E-05 Poster Session	Laser-Foaming on Agarose using a Picosecond 2 μ m Fiber Laser System
069	Tue	191530	Sym J-05 Poster Session	PH Responsive Silica-Polymer Hybrid: A Novel Platform to Achieve General or Specific Bacterial Detection
070	Tue	192013	Sym J-05 Poster Session	Design and Selective Cancer Cell Imaging Application of Purine-Functionalized Fluorescent Silver Nanoclusters
071	Tue	190664	Sym J-05 Poster Session	Does the Size or the Shape of Mesoporous Silica Nanomaterials Dominate Their Cellular Uptake?
072	Tue	190461	Sym J-05 Poster Session	Fabrication of Liposome Vesicles Utilizing Microfluidic Technology
073	Tue	192544	Sym J-05 Poster Session	Fabrication of Microfluidic Paper-Based Analytical Devices (μ PADs) with Toner Printer
074	Tue	193225	Sym J-05 Poster Session	Fluorescence Resonance Energy Transfer (FRET) Responsive Hydrogel Based Optical Biosensors for Detection of Bone Degradation and Drug Delivery
075	Tue	191866	Sym J-05 Poster Session	Integration of Customizable Microfluidic Nozzles with Direct Ink Writing (DIW) 3D Printer
076	Tue	192769	Sym J-05 Poster Session	Investigation of Long-Term Reliability of Parylene-C Coated Neural Electrode using In-Vitro Soak Test
077	Tue	191473	Sym J-05 Poster Session	MMP-Responsive Gold Nanoparticles to Form 'Clicked' Nanoclusters
078	Tue	190468	Sym J-05 Poster Session	NIR-to-Red Upconversion Nanoparticles for Multidrug Resistance Tumor Therapy and Simultaneous Imaging with Minimal Side Effects
079	Tue	192911	Sym J-05 Poster Session	PLGA Fibers Enabling Synergistic Cancer Therapy based on Segmental Switchability of Chains through NIR Light Irradiation
080	Tue	191869	Sym J-05 Poster Session	The Development of Composite Wound Dressings for the Treatment of Diabetic Ulcer
082	Tue	190883	Sym J-05 Poster Session	Transdermal Drug Delivery with DNA Nanocarrier

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083	Tue	190777	Sym K-05 Poster Session	Antibacterial Coating on Silicone Based Contact Lens Using Polyglycidyl Methacrylate - Polyethylenimine Based Polymers
084	Tue	191295	Sym K-05 Poster Session	Block Copolymer Nanoparticles Remove Biofilms of Drug-Resistant Gram-Positive Bacteria by Nanoscale Bacterial Debridement
085	Tue	191512	Sym K-05 Poster Session	Alginate-Coated Cochleate System with Controlled-Release Properties for Effective Oral Delivery of Artemisinin
086	Tue	191835	Sym K-05 Poster Session	Nanoliposomes Encapsulating Anti-Inflammatory Drug for Atherosclerosis Treatment
087	Tue	192374	Sym K-05 Poster Session	Nanodiamond as a Vector for STAT3 siRNA Delivery to Hepatocellular Carcinoma Cells
088	Tue	192547	Sym K-05 Poster Session	Modification of Alpha Cyclodextrin with Polyurethane Embedded in Hydrogel for Sustained Drug Release and Complete Shrinkage of Melanoma
089	Tue	190156	Sym L-05 Poster Session	Design and Development of Reinforced Biodegradable Composites for Sustainable Consumer Packaging Applications
090	Tue	190334	Sym L-05 Poster Session	Hypoxia-Targeted Fluorescent Bio-Active Materials for Theranostic Treatments of Tumors
091	Tue	191030	Sym L-05 Poster Session	Assembly Formation of Needle-Like Protein from Bacteriophage T4 Observed by High Speed Atomic Force Microscopy
092	Tue	191078	Sym L-05 Poster Session	Development of Amphiphilic Multiblock Molecule Bearing Cationic Moiety
093	Tue	191179	Sym L-05 Poster Session	Construction of Protein Needle with Cargo Protein from Norovirus
094	Tue	191256	Sym L-05 Poster Session	A Novel Transformation System, Based on Laser Micro-Puncturing Beam and Gene-Coated Gold Nanoarticles in Wheat
095	Tue	191411	Sym L-05 Poster Session	Facile and Eco-friendly Preparation of Whey Protein-Coated Magnetic Nanoparticles as Adsorbents for Removal of Methylene Blue from Aqueous Solution
096	Tue	191753	Sym L-05 Poster Session	Resolving Cement Protein Tenacity Computationally
097	Tue	191799	Sym L-05 Poster Session	Fabrication and Evaluation of Multilayered Tissue Engineering Scaffolds Incorporated with Mesenchymal Stem Cells
098	Tue	191809	Sym L-05 Poster Session	Solution NMR Studies of Chitin Binding Squid (<i>Dosidicus gigas</i>) Beak Proteins
099	Tue	192484	Sym L-05 Poster Session	Versatile Carbon Dots as Tools for Sensing, Bioimaging and Tailoring Molecules
100	Tue	192826	Sym L-05 Poster Session	Eggshell Derived Apatite for Bioseparation Applications
102	Tue	193025	Sym L-05 Poster Session	Bioengineering Bacterial Vesicle-Coated Polymeric Nanomedicine for Enhanced Cancer Immunotherapy and Metastasis Prevention
103	Tue	200101	Sym L-05 Poster Session	A 3D Printed PLCL/dECM Complex Scaffold for Adipose Tissue Regeneration
104	Tue	200040	Sym L-05 Poster Session	Injectable Nanocomposite Hydrogel for Bone Tissue Engineering
105	Tue	193106	Sym L-05 Poster Session	Photocurrent Response Comparison of Thylakoid Membrane Protein Complex Film and Molecular Chlorophyll Film Extracted from <i>Spirulina</i> sp.
106	Tue	190186	Sym N-05 Poster Session	Layered Mg _x V ₂ O ₅ ·nH ₂ O as Cathode Material for High-Performance Aqueous Zinc Ion Batteries
107	Tue	190216	Sym N-05 Poster Session	The Effect of Polymeric Binders in the Sulfur Cathode on the Cycling Performance for Lithium-Sulfur Batteries
108	Tue	190288	Sym N-05 Poster Session	Scalable Synthesis of Si-SiO _x -C Composite Anode Materials by High-Energy Mechanical Milling and Oxidation Process for Li-Ion Rechargeable Batteries
109	Tue	190688	Sym N-05 Poster Session	First-Principles Study of Thiophosphate and Thioantimonate Na-Ion Conductors
110	Tue	190829	Sym N-05 Poster Session	Mesoporous Solid Electrolytes for All-Solid-State Batteries by Spark Plasma Sintering
111	Tue	190831	Sym N-05 Poster Session	All-Solid-State Sodium-ion Batteries Realized by Solution Processable Thioantimonate Solid Electrolyte
112	Tue	190980	Sym N-05 Poster Session	Free-Standing Vertically Aligned Carbon Nanotubes-Graphene Foam Composite Electrode for High Power Rechargeable Zn-Air Battery
113	Tue	190981	Sym N-05 Poster Session	Origin of Extra Capacity in Advanced Li-Rich Cathode Materials for Rechargeable Li-Ion Batteries
114	Tue	190982	Sym N-05 Poster Session	Structural Properties Evaluation of NASICON-Na ₃ Fe ₂ -yMn(PO ₄) ₃ as a Cathode Material for Na-ion Batteries
115	Tue	191039	Sym N-05 Poster Session	Polypyrrole Intercalated VOPO ₄ for Zinc-Ion Batteries
116	Tue	191050	Sym N-05 Poster Session	Organic-Inorganic Halide with Perovskite Structure as Active Materials for Sulfide-Based All-Solid-State Lithium Secondary Batteries
117	Tue	191103	Sym N-05 Poster Session	High Energy All-Solid-State Lithium Battery Material with Homogeneous Interfacial Chemistry
118	Tue	191114	Sym N-05 Poster Session	"MnCo ₂ O _{4.5} Nanoparticles with Spinel Structure as Bifunctional Catalyst for Rechargeable Zinc-air Batteries"
119	Tue	191115	Sym N-05 Poster Session	Transition Metal Oxide Nanoparticles with Perovskite Structure as Bifunctional Catalyst for Rechargeable Aluminum-air Batteries
120	Tue	191118	Sym N-05 Poster Session	Separator Design to Effectively Trap Lithium-Polysulfides for High Performance Li-S Batteries
122	Tue	191152	Sym N-05 Poster Session	Li(I)-Purine Based Solid Electrolyte: Role of Equivalents of Li(I) on Conductivity

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Board No.	Day	Abst ID	Session	Title
123	Tue	191219	Sym N-05 Poster Session	LiScO.06Mn1.94O4 as Prospective Cathode for Lithium Ion Batteries for Mobility Application
124	Tue	191288	Sym N-05 Poster Session	Mechanochemical Synthesis and Characterization of Li4GeO4-Li2WO4 Glass-Ceramic Electrolytes
125	Tue	191293	Sym N-05 Poster Session	Characterization of Na3Zr2Si2PO12-Na3SbS4 Composite Electrolytes with Sodium Ion Conductivity
126	Tue	191628	Sym N-05 Poster Session	A Mechanistic Insight into Na2FePO4F as a Cathode Material for Secondary Batteries
127	Tue	191645	Sym N-05 Poster Session	Polymer Coating Effect on Deposition and Dissolution Reactions of Lithium Metal Anode
128	Tue	191676	Sym N-05 Poster Session	Layered Na2Mn3O7 as a Versatile Cathode Material
129	Tue	191682	Sym N-05 Poster Session	Novel Titanium Based Anodes for Rechargeable Batteries
130	Tue	191701	Sym N-05 Poster Session	Phase Stability Analysis of the NASICON-Na3Fe2-yMny(PO4)3 Cathode Material for Na-ion Batteries
131	Tue	191726	Sym N-05 Poster Session	Ionic Conductivity and Chemical Stability of Li7P3S11 Thionitride Electrolytes Prepared via a Mechanochemical Process
132	Tue	191737	Sym N-05 Poster Session	Surface Modification of LiMO2 for All-Solid-State Lithium-ion Batteries Using Sulfide Solid Electrolytes
133	Tue	191762	Sym N-05 Poster Session	Promising Electrochemical Properties of Sugarcane Bagasse Derived Hard Carbon for Sodium-ion Batteries
134	Tue	191979	Sym N-05 Poster Session	Enhanced Electrochemical Stability of Sulfide Solid Electrolytes by Oxide Substitution for all Solid-State Lithium Ion Batteries
135	Tue	192015	Sym N-05 Poster Session	Application and Its Electrochemical Performances of Li6PS5Cl Solid Electrolyte Coated on the Li[Ni0.6Mn0.2Co0.2]O2 via Liquid Phase Process for All-Solid-State Lithium-Ion Batteries
136	Tue	192020	Sym N-05 Poster Session	Aqueous Rechargeable Mixed Ion Batteries
137	Tue	192038	Sym N-05 Poster Session	Polysulphide Confined Free-Standing Gel Polymer Electrolyte for Shuttle Control in Lithium Sulphur Battery
138	Tue	192145	Sym N-05 Poster Session	Effect of Surface Coating on Cathode Active Material by Electrostatic Slurry Spray Deposition for All-solid-state Batteries
139	Tue	192161	Sym N-05 Poster Session	PANI/PEDOT:PSS/MWCNT Composite as Electrode Materials for Supercapacitor Applications
140	Tue	192307	Sym N-05 Poster Session	A New Cross-Linked Polymeric Binder as a High-Performance Binder for Si Anodes in Lithium-ion Batteries
142	Tue	192310	Sym N-05 Poster Session	A Stable Cathode-Electrolyte Interphase Forming Additive for 5 V-class Material for High-Voltage Lithium-Ion Battery Applications
143	Tue	192321	Sym N-05 Poster Session	Evaluation of Mn-Ti-O Framework Based Sodium Ion Battery Electrode Response
144	Tue	192341	Sym N-05 Poster Session	Ni Hydroxide with Si as an Anode Material for Lithium Secondary Batteries
145	Tue	192651	Sym N-05 Poster Session	Solid-State Synthesis of Ga-doped Lithium Lanthanum Zirconium Oxide as Electrolyte for Lithium-ion Batteries
146	Tue	193085	Sym N-05 Poster Session	Topochemical Bottom-Up Synthesis of 2D- and 3D-Sodium Iron Fluoride Frameworks
147	Tue	193121	Sym N-05 Poster Session	Electrochemical Property of the Composite Electrode of Graphene Balls Graphene Oxide for Supercapacitor
148	Tue	193253	Sym N-05 Poster Session	Toward High-Power Lithium Ion Phosphate Batteries with Ultrafast Rate Capacity and Stability
149	Tue	190052	Sym O-05 Poster Session	Surface Chemistry of Colloidal Cesium Lead Halides Nanocrystals
150	Tue	190164	Sym O-05 Poster Session	Optical Characteristics of Zero-dimensional Inorganic Perovskites
151	Tue	190169	Sym O-05 Poster Session	Perovskite Solar Cells Employing Copper Phthalocyanine Hole-Transport Material with an Efficiency over 20% and Excellent Thermal Stability
152	Tue	190183	Sym O-05 Poster Session	Highly Efficient Perovskite Solar Cells via Nickel Passivation
153	Tue	190202	Sym O-05 Poster Session	Boosting the Performance of Perovskite Solar Cells by Adopting the Graphene Quantum Dots Modified SnO2 Electron Transport Layer
154	Tue	190337	Sym O-05 Poster Session	Influences of Spiro-MeOTAD Hole Transport Layer in the Stabilities of Perovskite-based Solar Cells
155	Tue	190459	Sym O-05 Poster Session	Mixed Oxide Hole Transport Layer for High-Efficiency Inverted Planar Perovskite Solar Cells with over 80% Fill Factor
156	Tue	190478	Sym O-05 Poster Session	Copper Complexes Redox Couple-Based Conductive Polymers As Hole Transporting Materials For Perovskite Solar Cells
157	Tue	190530	Sym O-05 Poster Session	All-Inorganic CsPbI3 Perovskite Solar Cells with Stabilized Efficiency Beyond 16%
158	Tue	190607	Sym O-05 Poster Session	Enhanced Efficiency of Perovskite Solar Cells Through Facile Co-doping of Electron Transporting Layer
159	Tue	190620	Sym O-05 Poster Session	Effects of Various Organic Solvents on the PCBM Electron Transport Layer of Perovskite Solar Cells

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160	Tue	190635	Sym O-05 Poster Session	The Use of Complimentary Heterogenous Electron Transporting Layers as a Facile Approach to Attain High Power Conversion Efficiency in Planar Perovskite Solar Cells
162	Tue	190683	Sym O-05 Poster Session	Defect Passivation in Organic-Inorganic Perovskite Solar Cells using CdS/ZnS Core/Shell Quantum Dots
163	Tue	190695	Sym O-05 Poster Session	Chemical Probing of Degradation of Perovskite Films Using the Photo Thermal Induced Resonance Spectroscopy
164	Tue	190696	Sym O-05 Poster Session	2-D Transition MetalDichalcogenides for Charge Transport Layers of MAPbI ₃ PerovskiteSolar Cells
165	Tue	190828	Sym O-05 Poster Session	Investigation on the Iodine Rich Lewis Base Solvent Additive in the Perovskite Film Formation via Ostwald Repining and Ion Exchange Approach
166	Tue	190855	Sym O-05 Poster Session	Direct Observation of Suppressed Ion Migration in Potassium Doped Perovskite by In-situ Photoluminescence Image
167	Tue	190862	Sym O-05 Poster Session	Carbon Quantum Dots as an Additive to Enhance the Formation of CH ₃ NH ₃ PbI ₃ Perovskite Films and Carbon Based Perovskite Solar Cell Performance
168	Tue	190886	Sym O-05 Poster Session	Tailoring the Physical Properties of Multiferroic Bismuth Ferrite Nanoceramics via Chemical Substitution for Photovoltaic Applications
169	Tue	190894	Sym O-05 Poster Session	Perovskite Solar Cells with CuO/Carbon Composite Electrode for Enhanced Photovoltaic Performance and Stability
170	Tue	190951	Sym O-05 Poster Session	Anomalous Characteristics of Grain Boundary Dictating Carrier Transport in Halide Perovskite Thin-Films
171	Tue	190965	Sym O-05 Poster Session	Solvent Approaches to Phase Control in Two-Dimensional Perovskites
172	Tue	190977	Sym O-05 Poster Session	Mechanism of External Electric Field Induced Photoluminescence Quenching in Individual CH ₃ NH ₃ PbX ₃ (X=I, Br) Nanocrystals
173	Tue	191007	Sym O-05 Poster Session	The Dynamical Rashba Splitting Effect in Inorganic Halide Perovskite: The First-Principles Approach
174	Tue	191111	Sym O-05 Poster Session	Compositional Engineering for Large Area D-bar Coating for Scalable Perovskite Solar Cells
175	Tue	191214	Sym O-05 Poster Session	Short-Range Methylammonium Dynamics in Methylammonium Lead Iodide
176	Tue	191253	Sym O-05 Poster Session	Equilibrium Space Charges Effect in Lead Halide Perovskite
177	Tue	191323	Sym O-05 Poster Session	Doping and Switchable Photovoltaic Effect in Lead-Free Perovskites Enabled by Metal Cation Transmutation
178	Tue	191350	Sym O-05 Poster Session	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dnamic Hot-Casting Method under Ambient Conditions
179	Tue	191354	Sym O-05 Poster Session	Towards Efficient and Stable Perovskite Photovoltaics with Fluorinated Phosphonium Salt Surface Passivation
180	Tue	191456	Sym O-05 Poster Session	Synthesis and Characterization of Rb-Incorporated Perovskite Single Crystals
182	Tue	191471	Sym O-05 Poster Session	Growth of Perovskite Polycrystalline Thin Films with Micrometer Sized Grains for Optoelectronic Devices
183	Tue	191633	Sym O-05 Poster Session	2D Chalcogenide Perovskite - A Promising Semiconductor Material
184	Tue	191674	Sym O-05 Poster Session	Magnetic Dipole Light Emission from Layered Organometallic Halide Perovskites
185	Tue	191699	Sym O-05 Poster Session	Sublimation of Organic Anion for Preparing MAPbI ₂ -X Perovskite Solar Cells.
186	Tue	191704	Sym O-05 Poster Session	Complex Interplay of Phase and Operational Instability of FA/Cs Mixed Halide Perovskite in Triple Layer Scaffold: Is Additive Engineering a Possible solution?
187	Tue	191822	Sym O-05 Poster Session	Influence of Octahedra Distortion on Properties and Performance of Quasi-2D Perovskites
188	Tue	191840	Sym O-05 Poster Session	Tuning Optoelectronic Properties of CsPbBr ₃ by Using Plasmonic Au-Ag Nanostructures
189	Tue	191887	Sym O-05 Poster Session	Structure and Properties of Vacancy-Ordered A ₂ SnI ₆ (A = Cs, Rb) halide Perovskites
190	Tue	191895	Sym O-05 Poster Session	Bandgap Tuning and Optical Property of Halide Perovskite Using Replacing Pb/Sn
191	Tue	191918	Sym O-05 Poster Session	Size and Surface Charge Studies of SnO ₂ Nanoparticle-Passivated Electron Selective Contact towards Highly Efficient and Stable Planar Perovskite Solar Cells
192	Tue	191936	Sym O-05 Poster Session	Intrinsic Excitonic Properties of High-Quality Lead Halide Perovskite Crystals
193	Tue	191994	Sym O-05 Poster Session	Cerium-Doped SnO ₂ Electron Transporting Layers for Perovskite Solar Cells
194	Tue	192008	Sym O-05 Poster Session	Enhanced Crystallization and Optimized Morphology of Perovskite through Doping Indium-Based Metal-Organic Assembly: Achieving Significant Solar Cell Efficiency Enhancements
195	Tue	192012	Sym O-05 Poster Session	A Solid State NMR, Powder XRD and Raman Spectroscopy Study of the Phase Evolution in the Mixed-Occupancy ((Cs) _x (CH ₃ NH ₃) _{1-x})PbCl ₃ Hybrid Lead Halide Perovskite System
196	Tue	192036	Sym O-05 Poster Session	Ultraviolet Ozone Assisted Technique to Promote Low-Temperature TiO ₂ for Efficient and Stable Perovskite Solar Cells
197	Tue	192047	Sym O-05 Poster Session	Effect of First and Second Sphere Coordinations of Lead Metal Center to Photovoltaic Performance of Perovskite Solar Cells
198	Tue	192069	Sym O-05 Poster Session	Amorphous TiO ₂ Electron Transport Layers for Efficient Planar Perovskite Solar Cells

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199	Tue	192088	Sym O-05 Poster Session	Cesium-based Multidimensional Perovskite Light-Emitting Diodes using Aromatic Amino Ligand Additives
200	Tue	192496	Sym O-05 Poster Session	Geometry and Facet Control in Halide Perovskite Single Crystals
202	Tue	192583	Sym O-05 Poster Session	Highly Stable Sn-Based Two-Dimensional Hybrid Organic-Inorganic Perovskites
203	Tue	192796	Sym O-05 Poster Session	Low-Temperature Processed TiO ₂ for Flexible, Large Area, High Bandgap Perovskite Solar Cells
204	Tue	192882	Sym O-05 Poster Session	Ligand assisted Bandgap Tuning of CsPbBr ₃ Perovskite Quantum Dots for Tandem Photovoltaics
205	Tue	192912	Sym O-05 Poster Session	Symmetrically Performing Bifacial Perovskite Solar Cells with Inorganic Hole Transporting Layer
206	Tue	193378	Sym O-05 Poster Session	Highly Stable and Color-Tunable Light Emitting Diode Based on Block Copolymer-Templated Perovskite Nanostructures.
207	Tue	193405	Sym O-05 Poster Session	Engineering Tin Oxide Electron Transport Layers for Carbon Based Perovskite Solar Cells Endowing Enhanced Carrier Extraction
208	Tue	192062	Sym O-05 Poster Session	Anisotropy of Photoluminescence Energy in Hybrid 2D Perovskite
209	Tue	200051	Sym O-05 Poster Session	High-Efficiency Perovskite Solar Cells by Modifying Zn-Doped TiO ₂ Electron Extraction Layer
210	Tue	190262	Sym O-05 Poster Session	Multi-Inch Single-Crystalline Perovskite Membrane for High-Detectivity Flexible Photosensors
211	Tue	190834	Sym O-05 Poster Session	Influence of Reducing Agent on Recombination Dynamics and Transport Length Scale in CH ₃ NH ₃ PbI ₃ based Perovskite Solar Cells
212	Tue	191132	Sym O-05 Poster Session	Zero-Dimensional Lead-Free Perovskite Nanocrystals for Light-Emitting Diodes
213	Tue	191169	Sym O-05 Poster Session	Quantum-Confined CsPbBr ₃ Nanoplatelets for Blue Light Emitting Diode
214	Tue	191322	Sym O-05 Poster Session	Carbon Based Perovskite Solar Cell from Indigenous Scale to Pilot Scale
215	Tue	191423	Sym O-05 Poster Session	Light and Oxygen Induced Trap passivation and Lattice Expansion in Perovskites
216	Tue	191539	Sym O-05 Poster Session	Resonant and Doped Dielectric Nanoparticles in Perovskite Solar Cells
217	Tue	191605	Sym O-05 Poster Session	Variations in the Composition of the Phases Lead to the Differences in the Opto-Electronic Properties of MAPbBr ₃ Thin Films and Crystals
218	Tue	191792	Sym O-05 Poster Session	Combined Hartree-Fock / K.P Theory Approach to Multi-photon Absorption in Colloidal Perovskite Nanocrystals
219	Tue	191845	Sym O-05 Poster Session	An Ultrahigh Gain Inorganic Mixed Halide Perovskite Nanocrystal-Graphene Hybrid Photodetector
220	Tue	191885	Sym O-05 Poster Session	Effect of PCBM on Efficiency and Stability in Perovskite Solar Cells
222	Tue	192079	Sym O-05 Poster Session	Methylammonium Dynamics and Its Influence on Optical Properties in 2D Hybrid Perovskite
223	Tue	192197	Sym O-05 Poster Session	Naphthylmethylammonium-Methylammonium Based Mixed-Dimensional Perovskite Solar Cells With Improved Thermal Stability
224	Tue	192289	Sym O-05 Poster Session	Effect of Organic Spacers on Electronic, Optical and Transport Properties of Two-Dimensional Layered Lead-Halide Perovskites
225	Tue	192772	Sym O-05 Poster Session	The Influence of Inorganic Cations in the Elemental Composition, Morphological and Structural Properties of Organometal Halide Perovskites
226	Tue	192910	Sym O-05 Poster Session	Nickel Oxide as Potential Role Payer for High Open Circuit Voltage and Stability Enhancer in Perovskite Solar Cells
227	Tue	193274	Sym W-05 Poster Session	Fabrication of A Thin Open-Cell Ni Foam Sheet with A High Specific Strength and Moderate Porosity Using Severe Plastic Deformation via Differential Speed Rolling
228	Tue	190473	Sym X-05 Poster Session	Pseudomorphic Conversion of Ag ₂ O Cubes, Octahedra and Rhombic Dodecahedra to Ag Crystals
229	Tue	192101	Sym X-05 Poster Session	Micron-Size and Concentric Ring-Graphene Cold Field Emitters That Operate Reliably in High Vacuum Conditions
230	Tue	193434	Sym X-05 Poster Session	Synthesis and Photoluminescence Behaviour of Ultra-fine Particles of Eu-doped Zirconia Nanopowders
231	Tue	193436	Sym X-05 Poster Session	Effect of Precursor Types on Powder Morphology and Photoluminescence Characteristics of Europium-doped Zinc Oxide Nanopowders
232	Tue	190151	Sym Z-05 Poster Session	Fabrication of Micropit Structures on Ti6Al4V Alloy Using Fluoride-Free Anodization for Orthopedic Applications
233	Tue	190152	Sym Z-05 Poster Session	Fabrication of Nanotubular Titanium Oxides on Ti6Al4V Foams for Orthopedic Applications
234	Tue	190221	Sym Z-05 Poster Session	Photothermal Ablation in NIR-I, -II, and -III Biological Windows for Biomedical Applications
235	Tue	190551	Sym Z-05 Poster Session	Ag/Ga-Doped ZnO/Pyramidal Silicon as A Multifunctional Surface-Enhanced Raman Scattering Substrate
236	Tue	191224	Sym Z-05 Poster Session	Label-Free Electrochemical Immunosensor Based on Poly(Indole-5-Carboxylic Acid) with Ultra-High Redox Stability

ICMAT 2019 POSTER BOARD ALLOCATION - TUESDAY, 25 JUNE 2019

Board No.	Day	Abst ID	Session	Title
237	Tue	191425	Sym Z-05 Poster Session	Label-Free Diagnosis of Cell Dormancy Chemically-Induced by Plant-Derived Polyphenols
238	Tue	191486	Sym Z-05 Poster Session	Zeolitic Imidazolate Framework as A Sensing Platform for Ochratoxin A Detection
239	Tue	191515	Sym Z-05 Poster Session	Chemiresistive pH Sensors Based on Advanced Nanocomposite Materials for Neurological Healthcare Monitoring Systems
240	Tue	191996	Sym Z-05 Poster Session	SERS Based Dengue Detection from Blood Serum by Hand Held Raman Spectrometer
242	Tue	192053	Sym Z-05 Poster Session	Functionalization of Bimetallic Nanoparticles with Vancomycin to Selectively Capture and Concentrate Staphylococcus Aureus
243	Tue	192267	Sym Z-05 Poster Session	Cationic Nanoparticles and Gene Therapy: From Particles Development to Ex Vivo Study
244	Tue	192716	Sym Z-05 Poster Session	Tweezing of Individual Proteins in Plasmonic Gold Nanoapertures
245	Tue	192880	Sym Z-05 Poster Session	SsDNA Conjugated Carbon Dots for Sensing Staphylococcus Aureus Micrococcal Nuclease
246	Tue	192890	Sym Z-05 Poster Session	Metal Wire Networks functionalized with Ni Alkanethiolate for Transparent and Enzymeless Glucose Sensors
247	Tue	190608	Sym AA-05 Poster Session	Zinc-Aluminium Layered Double Hydroxide as Boron and Zinc Micronutrients for Controlled Release Fertilizer
248	Tue	190614	Sym AA-05 Poster Session	Novel Methods for Assessing Nano-Microbiome Interactions of Ingested Engineered Nanomaterials
249	Tue	192511	Sym AA-05 Poster Session	Thermal Decomposition/Incineration of Nano-Enabled Coatings and Effects of Nanofiller/Matrix Properties and Operational Conditions on Byproduct Release Dynamics: Potential Environmental Health and Safety implications
250	Tue	191613	Sym AA-05 Poster Session	Adaptive Response to Low Doses of ZnO Nanoparticles
251	Tue	192902	Sym AA-05 Poster Session	Scalable Synthesis of Biodegradable Nanofibers by Rotary Jet Spinning
252	Tue	191783	Sym AA-05 Poster Session	Development of Nature-Derived Polymer Based Nanoplatforms for Agrichemical Delivery
253	Tue	192400	Sym AA-05 Poster Session	Small Organic Compound Free Preparation of Polymer/Inorganic Materials Nanocomposite by Enhanced Non-Covalent Interactions
254	Tue	192758	Sym AA-05 Poster Session	Okara Extracts as A Potential Platform for Encapsulation of Micronutrients for Food Fortification
255	Tue	192639	Sym AA-05 Poster Session	Using Nanocellulose to Engineer Interfacial Process in the Gastrointestinal Tract and Reduce Digestion and Intestinal Absorbance of Glucose from Starch
256	Tue	192654	Sym AA-05 Poster Session	Polysaccharide Based Oral Delivery Systems for Small Intestine Specific Delivery of Withania Coagulans Extract
257	Tue	192655	Sym AA-05 Poster Session	Synergistic Effects of Co-Exposure to Ingested Nanomaterials and Pesticides: Potential Health Implications
258	Tue	191648	Sym AA-05 Poster Session	Interaction of Pesticides with Ingested Nature-Derived Nanocellulose
259	Tue	192779	Sym AA-05 Poster Session	Media Attention, Cognitive Elaboration, and Three Types of Science Knowledge That Shape Public Acceptance of Nano-Enabled Food
260	Tue	192787	Sym AA-05 Poster Session	Nanoparticles Promote In-Vivo Breast Cancer Cells Intravasation and Extravasation by Inducing Endothelial Leakiness
262	Tue	192788	Sym AA-05 Poster Session	Hydroxyapatite Nanoparticle Induced Modulation of the Extracellular Matrix
263	Tue	192737	Sym AA-05 Poster Session	Understanding the Implications of Engineered Nanoparticle Interactions with Epidermal Keratinocytes
264	Tue	190361	Sym AA-05 Poster Session	Pyroelectric Materials and Configurations for Water Treatment and Splitting
265	Tue	191929	Sym AA-05 Poster Session	Investigating the Effects of Nanoscale and Bulk Anatase TiO ₂ on Plant Growth of Selected Dicotyledon Species
266	Tue	192153	Sym AA-05 Poster Session	Achieving Long Lasting Antimicrobial Effect for Cotton Fabrics by In-Situ Green Synthesis of Silver Nanoparticles Using Azadirachta indica Leaf Extract
267	Tue	193318	Sym AA-05 Poster Session	Conversion of Foul Smelling Soy Industry Byproduct into Biodegradable Film Matrix for Packaging Applications
268	Tue	193325	Sym AA-05 Poster Session	Single Cell and Single Particle Toxicity Assessment
269	Tue	192461	Sym BB-05 Poster Session	Effect of Gamma Irradiation on Mono-Layer and Bi-Layer Graphene
270	Tue	190865	Sym BB-05 Poster Session	Band Evolution and Quantum Transport Modulation of Bilayer WSe ₂ Van Der Waals Homojunction: Twist and Electric Field Effects
271	Tue	190054	Sym BB-05 Poster Session	Modulation of Doping and Biaxial Strain on the Transition Temperature of the Charge Density Wave Transition in 1T-TiSe ₂
272	Tue	190452	Sym BB-05 Poster Session	Electrical Doping Effect of Native Vacancies in Monolayer MoS ₂
273	Tue	190537	Sym BB-05 Poster Session	Eighteen Functional Monolayer Metal Oxides: Wide Bandgap Semiconductors with Superior Oxidation Resistance and Ultrahigh Carrier Mobility
274	Tue	190918	Sym BB-05 Poster Session	Spintronics Induced by Heterostructures Composed of Ferroelectric Nanosheet and Topological Insulator
275	Tue	191175	Sym BB-05 Poster Session	Photoluminescence Quenching in Single Layer Transition Metal Dichalcogenides by Al ₂ O ₃ Encapsulation

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Board No.	Day	Abst ID	Session	Title
276	Tue	192239	Sym BB-05 Poster Session	Probing the Defect State in Single Layer MoS2 with Photoluminescence and Raman Spectroscopy
277	Tue	191176	Sym BB-05 Poster Session	Optoelectronic Properties of Ultraviolet-Ozone-Treated WS2 and WSe2 Monolayers
278	Tue	191902	Sym BB-05 Poster Session	An Effective Energy Transfer Luminescent Framework Using Hybrid Lanthanide/ Transition-Metal Dichalcogenides (TMDs) Monolayers
279	Tue	191593	Sym BB-05 Poster Session	Optoelectronic Devices Based On Layered Black Phosphorus
280	Tue	191780	Sym BB-05 Poster Session	Templating Nanotrafic Light – Dynamic Tricoloured Blinking Silver Nanoclusters on Graphene Oxide Film
282	Tue	192320	Sym BB-05 Poster Session	Enhanced Valley Properties of Charged Excitons in Transition Metal Dichalcogenides
283	Tue	191189	Sym BB-05 Poster Session	Unravelling Planar Distribution of Intercalated Fe Atoms in TiS2 Layered Structure Using Transmission Electron Diffraction
284	Tue	191540	Sym BB-05 Poster Session	In-Situ Electrical Conductance Measurement of Suspended Graphene Nanoribbon by Transmission Electron Microscopy
285	Tue	193196	Sym BB-05 Poster Session	Unsupported 1T-TaS2 Graphene-Encapsulated Device Studied by Low Temperature STEM
286	Tue	192199	Sym BB-05 Poster Session	Electrical Characterization of Graphitic Carbon Nitride (g-C3N4) Thin Film
287	Tue	190585	Sym BB-05 Poster Session	Two-Dimensional Oxides Supporting Single-Layer Graphene for Enhanced Photocatalytic Activity.
288	Tue	192266	Sym BB-05 Poster Session	Superconductivity in NbN in Perpendicular Magnetic Field: 3D and 2D
289	Tue	191495	Sym BB-05 Poster Session	Symmetry Gate Bias Effect on Interfacial Carrier Behavior in Double-Gated Monolayer MoS2 FET
290	Tue	193090	Sym BB-05 Poster Session	Nature-Inspired Preservation of Photosensitive 2D Materials against Ambient Degradation
291	Tue	192434	Sym BB-05 Poster Session	Study on the Forster Resonance Energy Transfer in the Carbon Quantum Dot-TMD System
292	Tue	192793	Sym BB-05 Poster Session	2D MoS2 and 3D CdMoS4 Nanostructures as Efficient Photodetector
293	Tue	191155	Sym BB-05 Poster Session	Controlled Growth of MoS2 Flakes from In-Plane to Edge-Enriched 3-D Network and Their Hydrogen Gas Sensing Study
294	Tue	192757	Sym BB-05 Poster Session	Hierarchical NbS2/MoS2-Carbon Nanofiber Electrodes for Highly Flexible, Efficient and Stable Hydrogen Evolution Reaction in Acid to Alkaline Medium
295	Tue	192884	Sym BB-05 Poster Session	Graphene/Si Solar Cells: Impact of Device Structure on the Power Conversion Efficiency and Stability
296	Tue	192916	Sym BB-05 Poster Session	Hydrogen as A Fuel for the Future Needs of Society
297	Tue	193052	Sym BB-05 Poster Session	Two Dimensional (2D) Reduced Graphene Oxide (RGO)/Hexagonal Boron Nitride (h-BN) Based Nanocomposites as Anodes for High-Temperature Rechargeable Lithium-Ion Batteries
298	Tue	193115	Sym BB-05 Poster Session	MXenes as Energy Storage Materials
299	Tue	200053	Sym BB-05 Poster Session	Mo Concentration Controls the Morphological Evolution from Dendritic, to Semi-compact to Compact Growth of Monolayer Crystalline MoS2 on Various Crystal Substrates
300	Tue	200049	Sym BB-05 Poster Session	High Performance Multilayer MoS2 Transistor through Interface Engineering
301	Tue	200130	Sym BB-05 Poster Session	Graphene Produced by Wet-jet Milling as a Cathode of Secondary Aluminium Battery
302	Tue	190007	Sym BB-05 Poster Session	Intrinsic Defective Monolayer WS2 Exploration Guided by Kelvin Probe Force Microscopy
303	Tue	190731	Sym BB-05 Poster Session	Melting and Re-Entrant Melting of Polydisperse Hard Disks
304	Tue	191260	Sym BB-05 Poster Session	The Importance of Considering Schottky Barrier Inhomogeneities at the Au/MoS2 Interface
305	Tue	192170	Sym BB-05 Poster Session	Magneto-Transport Studies on Sulphur Deficient WS2 Thin Films Grown via Pulsed Laser Deposition
306	Tue	192777	Sym BB-05 Poster Session	Investigation of Ta2O5 as Back Gate Dielectric for MoS2 Field-Effect Transistor
307	Tue	192836	Sym BB-05 Poster Session	Visible/Near-IR β -In2Se3 Photodetector with Observation of Band-Edge in Spectral Response
308	Tue	200063	Sym BB-05 Poster Session	Bottom-up Process to Holey 2D Transition Metal Carbides/Nitrides Nanoflakes for Electrocatalytic Energy Conversion
309	Tue	190482	Sym DD-05 Poster Session	To Study the Improved in Dielectric Properties and Energy Density of PVDF-CCTO Nanocomposite Films by Quenching.
310	Tue	191511	Sym DD-05 Poster Session	Humidity and Gas Sensors Based on Electrospun Polyaniline/Polyvinylpyrrolidone Hybrid Nanofibers
311	Tue	192092	Sym DD-05 Poster Session	Semi-Coke Based Carbon Foam: Novel Preparation Technique for Hydrogen Production Application
312	Tue	192612	Sym DD-05 Poster Session	Developing Flame Retardant Polycarbonate Materials
313	Tue	192677	Sym DD-05 Poster Session	Effect of Composite Carbon Fiber Reinforced Polymer Patches on Mechanical Properties of Aluminium Beams

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Board No.	Day	Abst ID	Session	Title
314	Tue	192918	Sym DD-05 Poster Session	Effect Of Nano Veils On The Strength And Toughness of Single Lap Bonded Joints
315	Tue	193113	Sym DD-05 Poster Session	Interfacial Structure and Bonding Mechanism of AZ31/Carbon-Fiber-Reinforced Plastic Composites Fabricated by Thermal Laser Joining
316	Tue	200067	Sym DD-05 Poster Session	Title Case A Four-Way Matrix For Assessing The Credibility Of Finite Element Models Of Damaged Fibre Reinforced Composites
317	Tue	192059	Sym DD-05 Poster Session	Fabrication of Electrospun Polyaniline/Carbon Quantum Dots Composite Fiber Films for Gas Sensing Application
318	Tue	190748	Sym EE-05 Poster Session	Screening and Design of Novel 2D Ferromagnetic Materials with High Curie Temperature above Room Temperature
319	Tue	190874	Sym EE-05 Poster Session	Structural Reconstruction in Oxide Monolayer
320	Tue	191087	Sym EE-05 Poster Session	Image Segmentation with the Complex Network for TiB ₂ -TiC Microstructure Images
321	Tue	191089	Sym EE-05 Poster Session	SIMPLE-NN: An Efficient Package for Optimizing and Executing Neural-Network Interatomic Potentials
322	Tue	191119	Sym EE-05 Poster Session	Searching Efficiency of Bayesian Optimization and Evolutionary Algorithm in Crystal Structure Prediction
323	Tue	191123	Sym EE-05 Poster Session	Role Effective Mass as Electronic Descriptor in Data-Driven Thermoelectric Screening
324	Tue	191563	Sym EE-05 Poster Session	Two New Family Members of 2D Alkali Metal Subnitrides (AMS) and Their Pressure Induced Structural Phase Transitions
325	Tue	191816	Sym EE-05 Poster Session	Enabling High-Throughput Thermal Conductivity Screening with Accurate Debye Temperature Prediction
326	Tue	191910	Sym EE-05 Poster Session	Theoretical Study on the Conduction Mechanism of Sn-Doped Amorphous CuI
327	Tue	191922	Sym EE-05 Poster Session	Effect of Post Heat Treatment Process on Microstructure and Mechanical Properties of A Hot-Forged Micro-Alloyed Steel
328	Tue	192214	Sym EE-05 Poster Session	Study for Chemical Properties of P-Type Oxides via High-Throughput Screening
329	Tue	192797	Sym EE-05 Poster Session	Towards Better Paraffin Inhibitors via Kinetic Monte Carlo Simulation
330	Tue	193328	Sym EE-05 Poster Session	Design of Quantum Spin Hall Insulators via Orbital Selection Rule
331	Tue	193331	Sym EE-05 Poster Session	Machine Learning of Band Properties of 2D Materials
332	Tue	200033	Sym EE-05 Poster Session	Accelerated Development of Hard High Entropy Alloy by Machine Learning Guided High-Throughput Experiments
333	Tue	190239	Sym HH-05 Poster Session	Super-Octazethrene: An Open-Shell Graphene-Like Molecule Possessing Large Diradical Character but Still with Reasonable Stability
334	Tue	190271	Sym HH-05 Poster Session	Macrocyclic Polyradicaloids with Unusual Super-Ring Structure and Global Aromaticity
335	Tue	190446	Sym HH-05 Poster Session	Azulene Fused Acenes
336	Tue	190457	Sym HH-05 Poster Session	Electrochemical Behaviors of Negative Photochromic Compound via Biradical
337	Tue	190458	Sym HH-05 Poster Session	Effect of Aromaticity on the Biradical Character of the Open-Ring Isomer of Fast Photochromic Pentaarylbimidazole
338	Tue	190488	Sym HH-05 Poster Session	Fully-Printed Organic Field-Effect Transistors for Toxic Gases Detection
339	Tue	190517	Sym HH-05 Poster Session	Dicyclopenta-Fused Perylene: A Novel Bowl-Shaped Subunit of C ₇₀ with Global Anti-Aromaticity
340	Tue	190665	Sym HH-05 Poster Session	Extended Quinoidal Heteroacenes: The Ground States, Redox Properties and Their Applications
342	Tue	190674	Sym HH-05 Poster Session	Theoretical Study on the Aromaticity of Open-Shell Singlet Molecules by the GIMIC Method
343	Tue	190791	Sym HH-05 Poster Session	Toward π -Conjugated 2D Covalent Organic Radical Frameworks
344	Tue	190914	Sym HH-05 Poster Session	Applicability of Perturbation Theory to Singlet Fission Rate in Pentacene Dimer Models: Inspection by Quantum Master Equation Approach
345	Tue	190952	Sym HH-05 Poster Session	Nitrogen-Doped Heptazethrene with Open-Shell Singlet Ground State
346	Tue	190978	Sym HH-05 Poster Session	Environmentally Benign Solvent - Processable Semiconducting Polymers and Its Application to Hole Transporting Materials in Perovskite Solar Cells
347	Tue	190993	Sym HH-05 Poster Session	Reversible Valence Photoisomerization between Closed-Shell Quinoidal and Open-Shell Singlet-Biradical Forms
348	Tue	191011	Sym HH-05 Poster Session	Theoretical Proposal of A Novel Class of Nonlinear Optical Systems by Utilizing Singlet Fission
349	Tue	191085	Sym HH-05 Poster Session	Diazuleno-S-Indacene Diradicaloids: Synthesis, Properties and Local (Anti)Aromaticity Shift from Neutral to Dicationic State
350	Tue	191093	Sym HH-05 Poster Session	Formation of A Macrocycles-In-A-Macrocycle Superstructure with All-Gauche Conformation by Reversible Radical Association
351	Tue	191225	Sym HH-05 Poster Session	Photo-Oxidation Reveals the H-aggregates Hidden in the Spin-Casting Conjugated Polymer Films Observed by Two-Dimensional Polarized Imaging (2D-POLIM)
352	Tue	191246	Sym HH-05 Poster Session	Antiaromaticity in Central-Extended Bisazapentalenes
353	Tue	191355	Sym HH-05 Poster Session	Porphyrim Based π -Conjugated Macrocycles Bridged by Quinoidal Bithiophene

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Board No.	Day	Abst ID	Session	Title
354	Tue	191488	Sym HH-05 Poster Session	Extended Peri-Acenoacenes
355	Tue	191496	Sym HH-05 Poster Session	Peri-Tetracene Diradicaloid
356	Tue	191513	Sym HH-05 Poster Session	[n]Cyclo-Para-Biphenylmethyls: [n]Annulene-Like Structures and Experimental Observation of Valence Tautomerization
357	Tue	191524	Sym HH-05 Poster Session	From Open-Shell Singlet Diradicaloid to Closed-Shell Global Anti-Aromatic Macrocycles
358	Tue	191525	Sym HH-05 Poster Session	Toward Stable Superbenzoquinone Diradicaloids
359	Tue	191554	Sym HH-05 Poster Session	Ultrafast Humidity Sensing by Supramolecular Nanofibre for Real-Time Breath and Hydration Monitoring via Smart-Phone or PC
360	Tue	191583	Sym HH-05 Poster Session	Synthesis of Rubicene-Fused O-Heterocyclic Quinodimethane
362	Tue	191602	Sym HH-05 Poster Session	Cyclopenta Ring Fused Bisanthene and Its Charged Species with Open-Shell Singlet Diradical Character and Global Aromaticity/Anti-Aromaticity
363	Tue	191715	Sym HH-05 Poster Session	Raman Spectroscopy as A Versatile Tool to Study Organic Biradicals
364	Tue	191938	Sym HH-05 Poster Session	From All-Triazine Based Covalent Organic Framework to Nitrogen-Doped Carbon Nanotube: Efficient Electrocatalyst for Oxygen Reduction Reaction and Water Splitting
365	Tue	192135	Sym HH-05 Poster Session	Π -Extended S-Heterocyclic Naphthoquinodimethane with Diradical and Dipolar Character
366	Tue	192206	Sym HH-05 Poster Session	Contorted Nanographenes and Its Amplified Spontaneous Emission Properties
367	Tue	192220	Sym HH-05 Poster Session	Single Component Solution-Processed Organic Solar Cells Based on Conjugated D- π -A Small Molecules
368	Tue	192228	Sym HH-05 Poster Session	Novel Diindolocarbazole Semiconductors for Organic Thin-Film Transistors
369	Tue	192264	Sym HH-05 Poster Session	Carbazole-Based Deep-Blue Dyes for the Application in Solution-Processable White OLEDs
370	Tue	192392	Sym HH-05 Poster Session	Organic Small Molecules and N-Type Conjugated Polymers as Efficient Electron Transporting Materials in Inverted Perovskite Solar Cells
371	Tue	192722	Sym HH-05 Poster Session	A Feasible Strategy for High-Efficiency OLED Emitters: Excited State Tunings via Perpendicular Crossing Axis Theory (PCAT)
372	Tue	192914	Sym HH-05 Poster Session	Extended Quinoidal Acene and Phene Analogues: Toward Isoelectronic Structures of Nonacene and Nonaphene
373	Tue	192915	Sym HH-05 Poster Session	N-Containing Cationic Heteroacenes
374	Tue	193124	Sym HH-05 Poster Session	Trifluoromethylethynylated Anthraquinones for n-Type Organic Semiconductors
375	Tue	190629	Sym JJ-05 Poster Session	Pyrene-Core Derivatives with Aggregation-Induced Emission (AIE) Properties as Deep Blue Emitters for Solution Processed Organic-Light Emitting Diodes (OLEDs)
376	Tue	191406	Sym JJ-05 Poster Session	New Aggregation-Induced Delayed Fluorescence Luminogens with Through-Space Charge Transfer for Efficient Nondoped OLEDs
377	Tue	191447	Sym JJ-05 Poster Session	High-Performance Non-Doped OLEDs with Nearly 100% Exciton Use and Negligible Efficiency Roll-Off
378	Tue	191580	Sym JJ-05 Poster Session	Unexpected Room Temperature Phosphorescence from A Non-Aromatic, Low Molecular Weight, Pure Organic Molecule through the Intermolecular Hydrogen Bond
379	Tue	191819	Sym JJ-05 Poster Session	Soluble Gold-Thiolate Coordination Polymers: Effects of Polymer Aggregation on the Optical Properties
380	Tue	191841	Sym JJ-05 Poster Session	Lipid Droplets Targeting AIEgens for Apoptosis Monitoring
382	Tue	191851	Sym JJ-05 Poster Session	Specific Discrimination of Gram-Positive Bacteria and Direct Visualization of Infection by A DPAN-Based AIEgen
383	Tue	191861	Sym JJ-05 Poster Session	Engineering Sensor Arrays Using Aggregation-Induced Emission Luminogens for Pathogen Identification
384	Tue	191953	Sym JJ-05 Poster Session	Seeking Luminogen with Aggregation-Induced Emission Features from Natural Resource for Cancer and Bacteria Theranostics
385	Tue	191970	Sym JJ-05 Poster Session	Metal-Enhancement Study of Aggregation-Induced Emission-Based Photosensitizers
386	Tue	191984	Sym JJ-05 Poster Session	Aggregation-Induced Emission-Active Hydrogel Actuators with Shape- and Color-Tunable Behaviors
387	Tue	192108	Sym JJ-05 Poster Session	Tetraphenylethylene: Through Bond or through Space?
388	Tue	192727	Sym JJ-05 Poster Session	Novel Strategy for Constructing High Efficiency OLED Emitters with Excited State Quinone-Conformation Induced Planarization Process
389	Tue	192856	Sym JJ-05 Poster Session	Synthesis of Fluorescent Probe Based on Monostyryl BODIPY Molecule for Detection of Mercury Ions
390	Tue	193042	Sym JJ-05 Poster Session	Near-Infrared AIE-Active Probe Enable in Situ and Long-Term Tracking of Endogenous β -Galactosidase Activity
391	Tue	193046	Sym JJ-05 Poster Session	Cancer-Cell-Activated Photodynamic Therapy Assisted by Cu(II) Based Metal-Organic Framework
392	Tue	193093	Sym JJ-05 Poster Session	Semi-Quantitative Evaluation of Seafood Spoilage by Test Strips with An Aggregation-Induced Emission Luminogen
393	Tue	191983	Sym JJ-05 Poster Session	Investigation of Entry Pathways and Distribution of AIE Probes in Cells

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Board No.	Day	Abst ID	Session	Title
394	Tue	190050	Sym LL-05 Poster Session	Improved EMI Shielding Behaviour of Graphene Based Polypyrrole Nanocomposite
395	Tue	190877	Sym LL-05 Poster Session	Double Negative Electromagnetic Properties of Au/Fe ₅₃ Ni ₄₇ Hybrid Granular Composite Materials
396	Tue	192648	Sym LL-05 Poster Session	2D Nanomaterials and Metal Oxide Based Hybrid for Resistive Memory Application
397	Tue	193194	Sym LL-05 Poster Session	The Structural and Magnetic Properties of Cr-Sn Substituted SrAl ₄ Fe ₈ O ₁₉ Hexa-Ferrite, A High Energy Ceramic Permanent Magnet
398	Tue	190902	Sym LL-05 Poster Session	MoS ₂ Nanosheet- Metal Nanoparticles Composite for Gas Sensing Applications
399	Tue	190916	Sym LL-05 Poster Session	Synthesis, Characterization and Applications of CdSe Quantum Dots
400	Tue	191392	Sym LL-05 Poster Session	Comparative Study of NiO and K-doped NiO Nanoparticles Fabricated by Co-precipitation Method
402	Tue	192275	Sym LL-05 Poster Session	Tribological and Mechanical Performance of Whisker Reinforced Nylon Hybrid Composites
403	Tue	192584	Sym LL-05 Poster Session	Nano Mechanical and Wear Analysis of 3D-Printed CNT/ABS Hierarchical Composites
404	Tue	193453	Sym LL-05 Poster Session	Influence Of Mn Substitution On The Structural, Optoelectronic And Mechanical Properties Of CeO ₂
405	Tue	192940	Sym NN-05 Poster Session	Cyclodextrin-Capped Gold Nanoparticles Decorated Microfiber for Ultrasensitive Cholesterol Detection
406	Tue	191410	Sym NN-05 Poster Session	Ultraflexible Glassy Semiconductor Fibers for Thermal Sensing and Positioning
407	Tue	191374	Sym NN-05 Poster Session	A Novel Fiber-Based Plasmonic Biosensor Constructed by Introducing Disulfide Bond
408	Tue	193129	Sym NN-05 Poster Session	Controlled Fragmentation of Two-Dimensional Transition Metal Dichalcogenides via Polymer Mechanical Instabilities
409	Tue	192988	Sym NN-05 Poster Session	In-Fiber PN Junction Fabrication via Capillary Instability and Laser Trapping
410	Tue	191437	Sym NN-05 Poster Session	Thermal Drawn Multi-Material Fibers Based on Convergence Method
411	Tue	191464	Sym OO-05 Poster Session	The Mid-IR Electronic Transition and Photoluminescence of Self-Doped Colloidal Quantum Dot
412	Tue	191542	Sym OO-05 Poster Session	Generalized Normal Mode Expansion of Anisotropic Structures and Applications to Hyperbolic Metamaterials
413	Tue	191637	Sym OO-05 Poster Session	Transmission, Reflection Controlling and Absorber Design by Conformal Transformation
414	Tue	191647	Sym OO-05 Poster Session	Nanostructures Based Terahertz Emission Using Super-Gaussian Lasers
415	Tue	192798	Sym OO-05 Poster Session	New VOC Analysis Technique via Gas-Phase FITR
416	Tue	191941	Sym PP-05 Poster Session	Metalenses at Near-Infrared Wavelength for Two-Photon Microscopy
417	Tue	190503	Sym PP-05 Poster Session	Theoretical Method for Fabricating Elliptical Subwavelength Nanotubes by Higher-Order Waveguide-Mode Interference
418	Tue	190569	Sym PP-05 Poster Session	Synthesis, Characterization and Application of Carbon Quantum Dots Obtained through Templating Polymeric Self-Assemblies
419	Tue	190574	Sym PP-05 Poster Session	Active Localized Surface Plasmon Resonance on 2D Patterned VO ₂ Nanocrystals for Solar Energy Modulation
420	Tue	191069	Sym PP-05 Poster Session	Reflection-Suppressed Bandpass Filter Based on Tapered Hyperbolic Metamaterial Absorber
421	Tue	191076	Sym PP-05 Poster Session	Interleaved Metasurface for Full-Space Infrared Optical Phase Modulation
422	Tue	191290	Sym PP-05 Poster Session	Beam Manipulation in 4 π Space Based on Transflective Geometric Metasurface
423	Tue	191297	Sym PP-05 Poster Session	Spin-Optical Phase Transition: From Vortex to Photonic Spin-Hall Effect
424	Tue	191301	Sym PP-05 Poster Session	Topology Optimization for Acoustic Cloak Incorporating Acoustic-Elastic Coupling
425	Tue	191388	Sym PP-05 Poster Session	Exploring the Interaction of Localized Surface Plasmons with MoS ₂ /WS ₂ Heterostructure
426	Tue	191460	Sym PP-05 Poster Session	Surface Plasmon Polariton Excitation and Out-Coupling Mechanisms in Vertical and Lateral Metal-Insulator-Metal Tunnel Junctions
427	Tue	191643	Sym PP-05 Poster Session	Tunable Enhanced Optical Transmission in A Metal Film Perforated with Window Shaped Subwavelength Compound Array
428	Tue	191755	Sym PP-05 Poster Session	High Performance Single Quantum Dot Decorated Nano-Pyramid Fiber Tip for Scanning Near-Field Optical Microscopy
429	Tue	191904	Sym PP-05 Poster Session	Deterministic Assembly of Nanoparticles and Nanowires for Integrated Nanophotonics
430	Tue	192074	Sym PP-05 Poster Session	Electrically Tunable Polarization-Insensitive Transmissive MIM Plasmonic Metasurface
431	Tue	192295	Sym PP-05 Poster Session	Bilayer Metasurface for High Efficient-Transmission Type Light Modulation
432	Tue	192564	Sym PP-05 Poster Session	Plasmon Excitation via Quantum Mechanical Tunneling in Highly Doped Silicon Based Tunneling Junctions