

Symp	Award	Poster ID	Title	Authors	Affiliations
B	MRS-S	172233	GeSn Alloy Fabricated by Magnetron Sputtering	Li QIAN, Weijun FAN, Dao Hua ZHANG	Nanyang Technological University, Singapore
C	MRS-S	170678	A Fully Characterized Pyrene Bridged Large N-heteroacene: 15 Annulated Rings Fused in a Line	Zilong WANG, Guangfeng LIU, Peiyang GU, Qichun ZHANG	Nanyang Technological University, Singapore
C	MRS-S	172166	Rylene Ribbons with Unusual Diradical Characters	Wangdong ZENG, Jishan WU	National University of Singapore, Singapore
C	ACS Applied Materials and Interfaces	172421	Central and Lateral Extended O-Heterocyclic Quinodimethanes and Their Redox Properties	Shaoqiang DONG, Chunyan CHI, Jonathan LEE	National University of Singapore, Singapore
D	MRS-S	171585	Unlocking The Potential of SnX ₂ (X = O, S, Se) as Lithium-ion Battery Anode: Utilizing Both Conversion & Alloying Reactions for High Lithium Storage Capacities	Zhixiang HUANG (1,2), Ye WANG (1), Hui Ying YANG (1)	(1) Singapore University of Technology and Design, Singapore; (2) Airbus Group Innovations Singapore, Singapore
D	MRS-S	170952	Phosphate-based Polyanionic Insertion Materials for Na-ion and K-ion Batteries: Four Case Studies	Ritambhara GOND, Prabeer BARPANDA	Indian Institute of Science Bangalore, India
D	ACS Applied Materials and Interfaces	172113	Proton Enhanced Battery Kinetics for Aprotic Li-O ₂ Cells	Yunguang ZHU (1), Qi LIU (2), Yangchun RONG (2), Haomin CHEN (1), Jing YANG (1), Chuankun JIA (1), Li-Juan YU (3), Amir KARTON (3), Yang REN (2), Xiaoxiong XU (4), Stefan ADAMS (1), Qing WANG (1)	(1) National University of Singapore, Singapore; (2) Argonne National Laboratory, USA; (3) The University of Western Australia, Australia; (4) Ningbo Institute of Material Technology and Engineering, CAS, China
E	MRS-S	170886	Pseudocapacitive Na-Ion Storage Boosted by Self-Branched 2D Layered Metal Chalcogenide SnS ₂	Dong Liang CHAO, Jianyi LIN, Ze Xiang SHEN	Nanyang Technological University, Singapore
E	MRS-S	172591	Electrochemical Integrated Circuit Strategies for Advanced Electrode Materials: Recent Results	Laifa SHEN, Changbao ZHU, Chao WU, Shuangqiang CHEN, Joachim MAIER, Yan YU	Max Planck Institute for Solid State Research, Germany
E	Wiley	170797	Flexible Two-Dimensional Ultrathin Tin Sulfide Nanoflake Arrays Anchored Polyaniline Network for High Performance Supercapacitor	Huanhuan WANG (1,2), Dongliang CHAO (3), Jianyi LIN (4), Ze Xiang SHEN (3,1,2)	(1) French National Centre for Scientific Research (CNRS) - Institute for Engineering and Systems Science, Nanyang Technological University (NTU) and Thales (CINTRA), Singapore; (2) School of Materials Science and Engineering, Nanyang Technological University, Singapore; (3) Division of Physics and Applied Physics, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore; (4) Energy Research Institute (ERI@N), Interdisciplinary Graduate School, Nanyang Technological University, Singapore
E	Wiley	172614	Porous Nanofibrous Membranes with Liquid-infused Switchable Wettability for Effective Liquid Separation	Yang WANG (1), Jiancheng DI (1), Lei JIANG (2), Jihong YU (1)	(1) Jilin University, China; (2) Technical Institute of Physics and Chemistry, CAS, China
E	Wiley	171085	Functionalization of TiO ₂ Nanofibers with Ag and Ag ₂ S Nanoparticles for Enhanced Photocatalytic Hydrogen Generation	Minmin GAO (1), Liangliang ZHU (1), Connor Kang Nuo PEH (1), Ghim Wei HO (1,2,3)	(1) Department of Electrical and Computer Engineering, National University of Singapore, Singapore; (2) Engineering Science Programme, National University of Singapore, Singapore; (3) Institute of Materials Research and Engineering, A*STAR, Singapore
E	IOP Publishing	170104	Active Edge Sites Engineering in Nickel Cobalt Selenide Solid Solutions for Highly Efficient Hydrogen Evolution	Chuan XIA, Husam N. ALSHAREEF	King Abdullah University of Science and Technology, Saudi Arabia
E	IOP Publishing	171837	Mesoporous silica/TiO ₂ Nanocomposite for Collective Adsorption and Degradation Functionalities	Serene Wen Ling NG, Connor Kang Nuo PEH, Wei Li ONG, Nan ZHANG, Ghim Wei HO	National University of Singapore, Singapore
E	IOP Publishing	172297	Highly Anisotropic PtCu Alloy Nanoframes Used as Efficient Electrocatalysts for Oxygen Reduction and	Zhicheng ZHANG, Hua ZHANG	Nanyang Technological University, Singapore
E	IOP Publishing	170508	Inorganic-organic Hybrid Membranes for Photocatalytic Hydrogen Generation and Volatile Organic Compound	Jing WANG, Wei Li ONG, Jie Hong HO, Ghim Wei HO	National University of Singapore, Singapore

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F	MRS-S	172580	In Situ Plasmonic Nanoparticle Doped Electrospun Mesoporous Titania Nanofibers: Efficient Solar Light	Shreyasi CHATTOPADHYAY, Sandip BYSAKH, Goutam DE	CSIR-Central Glass and Ceramic Research Institute, India
F	MRS-S	171494	Exploring the Optical Properties of Earth-Abundant Chalcogenide Absorbers	Rongzhen CHEN 1,2, Clas PERSSON 1,2	(1) University of Oslo, Norway; (2) KTH Royal Institute of Technology, Sweden
G	MRS-S	170447	Flexible PV (Photovoltaics) - Enabling Integration of Most Powerful Solar Cell into Aesthetic Design for Greener	Sasi Kumar TIPPABHOTTLA, Arief Suriadi BUDIMAN, Vincent Adhi HANDARA	Singapore University of Technology and Design, Singapore
H	MRS-S	172457	Electrically Contacting Self-Assembled PbS Nanocrystals Using Graphene	Joel M. FRUHMANN (1), Hippolyte P.A.G. ASTIER (1), Lissa EYRE (1), Bruno EHLER (3), Marcus BOEHM (1), Piran R.	(1) University of Cambridge, UK; (2) University of Lancaster, UK; (3) Center for Nanophotonics, AMOLF, The
H	MRS-S	170194	Wafer-Scale Epitaxial Growth of Highly-Crystalline Molybdenum Disulfide Films on Hexagonal Boron Nitride	Deyi FU (1,2), Xiaoxu ZHAO (1), Linjun LI (1), Sock Mui POH (1), A-Rang JANG (3), Seong In YOON (3), Peng SONG (1), Hai XU (1), Tianhua REN (1), Zijing DING (1), Wei FU (1), Tae Joo SHIN (3), Hyeon Suk SHIN (3), Wu ZHOU (4,5), Kian Ping LOH (1,2)	(1) National University of Singapore, Singapore; (2) SinBERISE CREATE, National Research Foundation, Singapore; (3) Ulsan National Institute of Science and Technology, South Korea; (4) University of Chinese Academy of Sciences, China; (5) Oak Ridge National
H	ACS Nano	171347	Electrical Studies on MoS ₂ Schottky Diode with Asymmetric Metal Contacts Fabricated Using Electron	Monika MOUN, C.S. PATHAK, Manjari GARG, Rajendra SINGH	Indian Institute of Technology Delhi, India
I	MRS-S	171398	Mechanism of Cs Removal from Fukushima Weathered Biotite by Heat Treatment with a NaCl-CaCl ₂ Mixed Salt	Mitsunori HONDA, Yoshihiro OKAMOTO, Iwao SHIMOYAMA, Hideaki SHIWAKU, Shinichi SUZUKI,	Japan Atomic Energy Agency, Japan
I	MRS-S	170446	Designing Novel Multilayered Nanocomposites for High Performance Coating Materials with Online Strain	Hashina Parveen ANWAR ALI, Ihor RADCHENKO, Arief BUDIMAN	Singapore University of Technology and Design, Singapore
J	MRS-S	172480	High-Performance Transparent and Stretchable Piezoelectric Nanocomposite Based Nanogenerators	Xiaoliang CHEN, Kaushik PARIDA, Jiaqing XIONG, Meng-Fang LIN, Pooi See LEE	Nanyang Technological University, Singapore
J	ACS Applied Materials and	172479	Stretchable Electroluminescent Devices Based on	Jiangxin WANG, Pooi See LEE	Nanyang Technological University, Singapore
K	MRS-S	172218	Entropy Stabilizes Open Crystals of DNA-Coated Colloids	Hao HU, Pablo Sampedro RUIZ, Ran NI	Nanyang Technological University, Singapore
L	MRS-S	171007	Novel Method to Fabricate Ultra-high Sensitive Magnetic Sensor by Using Water-treatment Process	Hiroshi TANAKA (1), Kenta TANAKA (1), Hideki YOSHIKAWA (2), Satoru KISHIDA (3)	(1) National Institute of Technology, Yonago College, Japan; (2) National Institute for Materials Science, Japan; (3) Tottori University, Japan
L	MRS-S	170824	Facile Solution Combustion Synthesis of Iron and Bismuth Molybdates (M ₂ (MoO ₄) ₃ ; M=Fe and Bi) for Electrochemical Applications	Senthilkumar BASKAR (1,2), Kalai Selvan RAMAKRISHNAN (1)	(1) Energy Storage and Conversion Devices Laboratory, Department of Physics, Bharathiar University, India; (2) Faraday Materials Laboratory, Materials Research Centre, Indian Institute of Science, India
M	MRS-S	170326	Additive Manufacturing of Functional Ceramics	Xiangxia WEI, Erwin PENG, Jun DING	National University of Singapore, Singapore
N	MRS-S	170288	Effect of Sr ²⁺ Doping on the Functional Response of (1-x)PMN-xPT Relaxor Ceramics	Pius AUGUSTINE (1,2), Subin JOSE (2), C.S AKHIL (2), M.S. Ramachandra RAO (1)	(1) Department of Physics, Nano Functional Material Technology Centre and Material Science Research Centre, Indian Institute of Technology Madras, India; (2) Department of Physics, Sacred Heart College
N	MRS-S	171464	Antibacterial Activity of Graphene Oxide Strongly Depends on the Bacterial Physiology	H. Enis KARAHAN (1,2), Chenjie XU (1,3), Jun WEI (2), Yuan CHEN (4)	(1) School of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore; (2) Singapore Institute of Manufacturing Technology, A*STAR, Singapore; (3) NTU-Northwestern Institute of Nanomedicine, Singapore; (4) School of Chemical and Biomolecular Engineering, The University of Sydney,
O	MRS-S	170582	Fabrication, Structure and Properties of Bismuth Sodium Titanate Piezoelectric Ceramic Coatings by Thermal Spray	Kun GUO (1,2), Shuting CHEN (1), Chee Kiang Ivan TAN (1), Kui YAO (1), Meysam Sharifzadeh MIRSHEKARLOO	(1) Institute of Materials Research and Engineering, A*STAR, Singapore; (2) National University of Singapore,
O	MRS-S	172237	Rectifying Electronic Transport and Bi-polar Resistive Switching in (Ag or Hg)/PVDF/Au Capacitor Like	Pramod KADUKATTY, Ramesh Babu GANGINENI	Pondicherry University, India

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P	MRS-S	171577	Interfacing DNA with Inorganic Materials for Electronic and Sensing Applications	Samantha Marie-Louise LUNN, Eimer TUIITE, Andrew PIKE	Newcastle University, United Kingdom
P	ACS Nano	171013	Tunneling Charge Transfer at a Nano-Engineered Electrochemical Interface	Charmaine CHIA (1), Chaitanya GUPTA (2), Roger HOWE (1)	(1) Stanford University, United States; (2) Probius DX, United States
Q	MRS-S	172655	Electromagnetic Interference Shielding Effectiveness of Sulfur-Doped Graphene	Faisal SHAHZAD (1,2), Soon Man HONG (1,2), Chong Min KOO (2)	(1) Korea Institute of Science and Technology, South Korea; (2) University of Science and Technology, South
R	MRS-S	170665	Self-Powered Textile for Wearable Electronics by Hybridizing Fiber-Shaped Nanogenerators, Solar Cells and	Zhen WEN (1,2,3), Min-Hsin YEH (2), Hengyu GUO (2), Liping ZHU (3), Xuhui SUN (1), Zhong Lin WANG (2)	(1) Soochow University, China; (2) Georgia Institute of Technology, United States; (3) Zhejiang University, China
S	MRS-S	172547	Theoretical Design of Co ₂ FeSi/BaTiO ₃ /SrTiO ₃ /Co ₂ FeSi Multiferroic Tunnel Junction: Coexistence of Giant	Qingyun WU, Lei SHEN, Jingsheng CHEN, Yuan Ping FENG	National University of Singapore, Singapore
T	MRS-S	170247	Biosensor Based on Self-Clickable AI-Egen: A Triple Signal Amplification Strategy for Ultrasensitive Immunoassay	Youyong YUAN, Bin LIU	National University of Singapore, Singapore
T	MRS-S	170990	Aggregation-Induced Emission from s-Triazine-based Fluorinated Arene	Zhenglin ZHANG, Mohamed I. HASHIM, Ognjen Š. MILJANIĆ	Department of Chemistry, University of Houston, United States
T	RSC - Polymer Chemistry & Molecular Systems Design & Engineering	170481	Multicomponent Polymerization of Diyne, Aldehyde and Urea: A Novel One-pot Method to Functional Poly(amino-H-oxazine)s	Yubing HU, Benzhong TANG	Department of Chemistry and the Hong Kong Branch of National Engineering Research for Tissue Reconstruction and Restoration, Hong Kong University of Science and Technology, Hong Kong S.A.R. (China)
T	RSC - Polymer Chemistry & Molecular Systems Design &	170250	Highly Efficient Photosensitizers with Optimized Triplet Usage and Aggregation-Induced Emission Characteristics	Shidang XU, Wenbo WU, Bin LIU	National University of Singapore, Singapore
T	RSC - Materials Chemistry Frontiers	171195	Fabrication of Circular Polarized Luminescent Helical Fibers from Chiral Phenanthro[9,10]imidazole Derivatives	Rongsen WEN 1,2, Bing Shi LI 1, Zhiming WANG 1,2, Ben Zhong TANG 1,2	(1) Key Laboratory of New Lithium-Ion Battery and Mesoporous Material, Department of Chemistry and Environmental Engineering, Shenzhen University, China; (2) Hong Kong University of Science & Technology (HKUST) – Shenzhen Research Institute, China
T	RSC - Materials Chemistry	170292	Highly Efficient FR/NIR Photosensitizers for Image-Guided	Wenbo WU, Bin LIU	National University of Singapore, Singapore
T	ACS Omega	170393	Photoactivatable Aggregation-Induced Emission Probes for Lipid Droplets-Specific Live Cell Imaging	Meng GAO, Anjun QIN, Ben Zhong TANG	South China University of Technology, China
T	ACS Omega	170246	Smart Activatable and Traceable Dual-prodrug for Image-Guided Combination Photodynamic and Chemotherapy	Fang HU, Bin LIU	National University of Singapore, Singapore
U	MRS-S	171340	Layer Dependent Optical Studies of Large Sized 2D	Kian Ping LOH, Kai LENG	National University of Singapore, Singapore
U	MRS-S	171320	Direct Observation of Electron-Phonon Coupling in Mixed-Cation and Mixed-Halide Perovskites by Optical-Pump Terahertz-Probe Spectroscopy	Daming ZHAO (1), Chan LA-O-VORAKIAT (2,3,4), Hongwei HU (5), Liang CHENG (1), Qing CHANG (1), Yeng Ming LAM (5), Elbert E. M. CHIA (1)	(1) Division of Physics and Applied Physics, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore; (2) Nanoscience and Nanotechnology Graduate Program, King Mongkut's University of Technology Thonburi, Thailand; (3) Theoretical and Computational Science Center (TaCS), Faculty of Science, King Mongkut's University of Technology Thonburi, Thailand; (4) Faculty of Science, King Mongkut's University of Technology Thonburi, Thailand; (5) School of Materials Science and
U	ACS Applied Materials and Interfaces	170522	Novel Broadband Emitting 2D-Hybrid Organic Inorganic Perovskite	Ishita NEOGI (1,2), Annalisa BRUNO (1), Teck WEE (1), Rakesh GANGULY (1), Tze Chien SUM (1), Cesare SOCI (1),	(1) Nanyang Technological University, Singapore; (2) Ariel University, Israel
V	MRS-S	170860	Fano Resonances Mediated by Various Multipoles In	Longqing CONG, Yogesh SRIVASTAVA, Ranjan SINGH	Nanyang Technological University, Singapore

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W	MRS-S	171314	Direct Observation of Resonance Scattering Patterns in Single Silicon Nanoparticles	Vytautas VALUCKAS, Ramón PANIAGUA-DOMÍNGUEZ, Yuan Hsing FU, Boris LUK'YANCHUK, Arseniy I.	Data Storage Institute, Agency for Science, Technology and Research (A*STAR), Singapore
W	MRS-S	171528	Magneto-optical Effects Driven by Mie Resonances in Subwavelength All-dielectric Nanoparticles	Alexandr I. MUSORIN (1), Alexander S. SHOROKHOV (1), Maria G. BARSUKOVA (1), Maxim R. SHCHERBAKOV (1),	(1) Lomonosov Moscow State University, Russian Federation; (2) Australian National University, Australia
W	ACS Nano	170871	High-Angle Visible Light Densing with TiO ₂ Metasurfaces	Egor KHAIDAROV (1,2), Hanfang HAO (1), Ramón PANIAGUA-DOMINGUEZ (1), Ye Feng YU (1), Yuan Hsing FU (1), Vytautas VALUCKAS (1), Arseniy KUZNETSOV (1)	(1) Data Storage Institute, A*STAR, Singapore; (2) School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
X	MRS-S	171341	Investigation on Atypical Change on the Ultraviolet and Visible Photoluminescence Property of Cl:ZnO Thin Films	Arindam MALLICK, Durga BASAK	Solid State Physics, Indian Association for the Cultivation of Science, India
Y	MRS-S	172441	Cyclopenta Fused Bisanthene and Its Redox Species	Qing WANG, Chunyan CHI	National University of Singapore, Singapore
AA	MRS-S	171188	Shape and Charge Determinants of the Nanoparticle Induced Endothelial Cells Leakiness Effect	Jinping WANG, Jie Kai TEE, Fei PENG, Tai Wei David LEONG	National University of Singapore, Singapore
AA	ACS Nano	170744	Nucleic Acid Assembly for Abnormal Scar Theragnostic	Chenjie XU, Mengjia ZHENG	Nanyang Technological University, Singapore
BB	MRS-S	170482	Cell Culture Substrate Stiffness is a Potent Regulator of Mesenchymal Stem Cell Secretome for Tissue	Haibo YANG (1), Kim Truc NGUYEN (1), David Tai LEONG (2), Nguan Soon TAN (1), Chor Yong TAY (1)	(1) Nanyang Technological University, Singapore; (2) National University of Singapore, Singapore
BB	ACS Biomacromolecules	170428	Unconventional Platforms for Detection of Growth Hormone Doping in Sports	Antareep SHARMA (1,3), Kok Onn LEE (2), Bo Gunnar LIEDBERG (1), Dorin HARPAZ (1,3,4), Evgeni ELTZOV (4), Alfred Iing Yoong TOK (1,3)	(1) Nanyang Technological University, Singapore; (2) National University Hospital, Singapore; (3) Institute of Sports Research, Nanyang Technological University, Singapore; (4) Ben-Gurion University of the Negev, Israel
BB	ACS Biomacromolecules	172178	Synthesis of Biodegradable Antimicrobial Polymers with High Selectivity	Chloe CHO (1), Chao LIANG (1), Janesha PERERA (2), Viji SAROJINI (1), Ralph COONEY (1), Margaret BRIMBLE (1), Simon SWIFT (2), Jianyong JIN (1)	(1) School of Chemical Sciences, University of Auckland, New Zealand; (2) Department of Molecular Medicine and Pathology, University of Auckland, New Zealand
CC	MRS-S	171700	Plasmonic Nanoparticle - Containing Dual Responsive composite for Climate-Adaptable Autonomous Solar Modulating Windows	Heng Yeong LEE (1), Yufeng CAI (1,2), Shuguang BI (1), Yen Nan LIANG (1), Yujie SONG (1), Xiao HU (1,2)	(1) Nanyang Technological University, Singapore; (2) Nanyang Environment & Water Research Institute (NEWRI), Nanyang Technological University, Singapore
CC	MRS-S	172594	Ceramic-Metal Composite for Shape Memory Effect	Xiao Mei ZENG (1,2), Zehui DU (1), Chee Lip GAN (1,2)	(1) Temasek Laboratories @ NTU, Nanyang Technological University, Singapore; (2) School of Materials Science and Engineering, Nanyang Technological University,
DD	MRS-S	171882	Solution-phase Synthesis Approach to Copper-based Multinary Sulfides	Michelle Dela Cruz REGULACIO, Ming-Yong HAN	Institute of Materials Research and Engineering, A*STAR, Singapore
DD	ACS Applied Materials and Interfaces	171647	Syntheses of Te-doped and In-doped CoSb ₃ Thermoelectric Nanoparticles Fabricated by Pulse Plasma	Rafał ZYBAŁA, Maksymilian SZCHMIDT, Kamil KASZYCA, Mirosław Jakub KRUSZEWSKI, Katarzyna PIETRZAK, Łukasz	Warsaw University of Technology