2024 AMIC Annual Meeting Poster Sessions

Thursday, March 14 3:30 - 4:15 pm

Poster Number	Group	Poster Title and Authors
1	MRSEC Seed	High-Voltage (>1.2 kV) AlGaN/GaN Monolithic Bidirectional HEMTs With Low On- Resistance Md Tahmidul Alam, Jiahao Chen, Ruixin Bai, Shubhra S. Pasayat, Chirag Gupta Presented by Md Tahmidul Alam
2	MRSEC IRG1	Predicting the Effective Properties of Polycrystalline Materials Using Graph Neural Network Minyi Dai, Mehmet F Demirel, Xuanhan Liu, Yingyu Liang, Jia-Mian Hu Presented by Minyi Dai
3	MRSEC IRG 2	First-principles Calculations of Magnetic Properties in Two-dimensional Materials Wuzhang Fang Presented by Wuzhang Fang
4	MRSEC IRG 2	Epitaxy, Exfoliation, and Strain Induced Magnetism and Superconductivity in GdAuGe Membranes Zach Laduca, Tamalika Samanta Presented by Zach Laduca and Tamalika Samanta
5	MRSEC IRG 2	Atomic Sliding Transition Detected by Nanomechanial Resonator Yulu Mao Presented by Yulu Mao
6	Mawst Lab	Selected Area Growth of High Density III-V/N Quantum Dots by Diblock Co- polymer Lithography and Metalorganic Vapor Phase Epitaxy N. Pokharel, C. Liu, M.A.B.Ponce, J.D. Kirch,S. Xu, A. Kvit, P. Gopalan, L.J. Mawst Presented by Nikhil Pokharel
7	MRSEC IRG1	Surfactant Detection Using Surface-immobilized Liquid Crystal Droplets with Machine Learning Amy Qin, Fengrui Wang, Claribel Acevedo-Vélez, Reid Van Lehn, David Lynn, Victor Zavala Presented by Amy Qin
8	Franck Lab	Development of a Carbon Nanotubes (CNT) – Polydimethylsiloxane (PDMS) Micro-Newton Force Sensor for Rate-Dependent Hydrogel Characterization Sinan Candan, Vanessa Barton, Joseph Andrews, Jacob Notbohm, Christian Franck Presented by Sinan Candan

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9	Min Lab	Real-time Monitoring of Manufacturing Machines and Human-centric Assembly Operations Vignesh Selvaraj, Monami Bhuyan, Sangkee Min Presented by Vignesh Selvaraj
10	Li Lab	Molecular Dynamics Simulations to Investigate the Antibiotic Potential of Anisotropic Nanoparticles Presented by Danh Thanh Nguyen
11	Choy Lab	Innovations in the Wettability and Characterization of Fluorinated Diamond-Like Carbon Coatings Yuhan Tong, Maryam Zahedian, Aiping Zeng, Patrick J. Heaney, Ricardo Vidrio, Mike Efremov, Jennifer T. Choy Presented by Yuhan Tong
12	MRSEC IRG 2	Terahertz Sensing Based on Layered Topological Semimetal Tairan Xi, Haotian Jiang, Yuchen Gu, Yulu Mao, Carter Fox, Yangchen He, Daniel Rhodes, Daniel van der Weide, Ying Wang, Jun Xiao Presented by Tairan Xi
13	Chen Lab	In-situ Monitoring of Additive Manufacturing Processes Jiandong Yuan, Junye Huang, Ali Nabaa, Matthias Beuting, Lianyi Chen Presented by Jiandong Yuan
14	Civil MARC	Evaluation of the Rheological Properties and Molecular Weight Distributions of Asphalt Binder under Multiple Aging and Rejuvenation Cycles Rui Wang, Ruihua Zhang, Hussain Bahia Presented by Runhua Zhang
15	Li Lab	Benchmarking Study of Deep Generative Machine Learning Models for Inverse Polymer Design Lei Tao, Vikas Varshney, Ying Li Presented by Tianle Yue