

2024 Graphene and Beyond Workshop

May 15-16, 2024 / The Pennsylvania State University

POSTERS

	First Name	Last Name	Email Address	Affiliation	Poster Title
1	Edgar	Dimitrov	ehd6@psu.edu	Pennsylvania State University	Synthesis and characterization of single photon emitters from carbon related defects in hexagonal boron nitride nanoflakes
2	Harikrishnan	Ravichandran	hur173@psu.edu	Pennsylvania State University	Exploiting point defects in two-dimensional materials for neuromorphic computing
3	Dnyanesh	Sarawate	dns50@pitt.edu	University of Pittsburgh	Field-Controlled Ion-Locked Polymorphic Electronics for Hardware Security
4	Najam	Sakib	sakib@psu.edu	Pennsylvania State University	Monolithic Three-Dimensional Integration of Two-Dimensional Field Effect Transistors
5	Rameez Raja	Shaik	rrs5636@psu.edu	Pennsylvania State University	Reconfigurable logic inspired by dendritic computation for neural network (NN) acceleration
6	Na	Zhang	nmz5113@psu.edu	Pennsylvania State University	Tuning the Fermi Level of Graphene by Two-Dimensional Metals for Raman Detection of Molecules
7	Zhuohang	Yu	zpy5042@psu.edu	Pennsylvania State University	Bandgap Tuning in Monolayer MoSe ₂ Induced by Selenium Vacancies
8	Joniel	Yege	jy5742@g.rit.edu	Rochester Institute of Technology	Preparation and Transfer of Large-Area Graphene and 2D materials for Device Fabrication
9	Andrew	Murphy	andrew.murphy@utexas.edu	University of Texas at Austin	Examining the Presence of Oxygen Substitutions in Monolayer WS ₂ Prepared via Chemical Vapor Deposition and Molecular Beam Epitaxy
10	Huayuan	Han	hh9384@rit.edu	Rochester Institute of Technology	Solid Electrolyte Gating of Graphene Field Effect Transistor for Electrochemical Non-volatile Random Access Memory
11	Muhtasim Ul Karim	Sadaf	sadaf@psu.edu	Pennsylvania State University	A Crayfish-inspired Sensor Fusion Platform for Multisensory Integration of Visual, Chemical, and Tactile Information
12	M Saifur	Rahman	mqr5905@psu.edu	Pennsylvania State University	Atomic Layer Deposited Semimetallic TiS _x for Hole Injection into WSe ₂
13	Shreya	Mathela	svm6533@psu.edu	Pennsylvania State University	Exploring Dopant-Defect Interactions and their Impact on Optoelectronic Properties in Vanadium-Doped WS ₂ Monolayers
14	Chen	Chen	cuc33@psu.edu	Pennsylvania State University	Wafer-Scale Epitaxial 2D Transition Metal Dichalcogenide Films by Metalorganic Chemical Vapor Deposition
15	Arpit	Jain	ajj5678@psu.edu	Pennsylvania State University	Phase Engineering and Light-Matter Interaction in Two-Dimensional Silver
16	Andrew	Pannone	alp5844@psu.edu	Pennsylvania State University	Improving Chemisensor Reliability using Machine Learning
17	Nikalabh	Dihingia	nmd5719@psu.edu	Pennsylvania State University	Quantifying the thickness of WTe ₂ using atomic-resolution STEM simulations and supervised machine learning
18	Yangyang	Chen	yuc552@psu.edu	Pennsylvania State University	Inert atmosphere cluster tool for device fabrication and characterization of air-sensitive two-dimensional materials

The Center for 2D Layered Materials and 2D Crystal Consortium-MIP

2024 Graphene and Beyond Workshop

May 15-16, 2024 / The Pennsylvania State University

POSTERS

	First Name	Last Name	Email Address	Affiliation	Poster Title
19	Petra	Reinke	pr6e@virginia.edu	University of Virginia	Precursor to lithography: Electron-induced etching with the STM on CVT Grown TaS ₂ Crystals
20	Pierce	Fix	johnfix@montana.edu	Montana State University	MonArk Quantum Foundry
21	Shalini	Kumari	szk1009@psu.edu	Pennsylvania State University	Epitaxial Growth and Characterization of MoS ₂ by Metalorganic Chemical Vapor Deposition (MOCVD) for Next Generation Devices
22	Qihua	Zhang	qzz5173@psu.edu	Pennsylvania State University	Epitaxial Growth of High Quality SnTe layers on InP substrate
23	John Wyatt	Morrell	wwm3539@g.rit.edu	Rochester Institute of Technology	Modeling and Characterization of Gate-All-Around Vertical Nanowire Array Transistors Based on Van Der Waals Epitaxial InAs-on-2D Heterostructures
24	Nithil Harris	Manimaran	nm9724@g.rit.edu	Rochester Institute of Technology	Realizing a linear synaptic weight update in ion gated graphene field effect transistors for achieving spike-timing-dependent plasticity in neuromorphic
25	Burcu	Ozden	buo109@psu.edu	Pennsylvania State University	Leveraging Proton Irradiation for Precise Defect Control in 2D Materials
26	Dipanjan	Sen	dps5991@psu.edu	Pennsylvania State University	High Speed, Low-power, and Multi-bit Ferroelectric Field Effect Transistor based on Freestanding 3D SrTiO ₃ Nanomembranes
27	Subir	Ghosh	skg5886@psu.edu	Pennsylvania State University	Monolithic and heterogeneous three-dimensional (3D) integration of two-dimensional (2D) materials using dense vias
28	Mayukh	Das	mayukhdas@psu.edu	Pennsylvania State University	Doping Strategy to achieve High-performance p-type Two-dimensional Field Effect Transistors
29	Yikai	Zheng	yvz5515@psu.edu	Pennsylvania State University	A Butterfly-Inspired Multisensory Neuromorphic Platform for Integration of Visual and Chemical Cues
30	Shiva	Subbulakshmi Radhakrishnan	shiva@psu.edu	Pennsylvania State University	An All-in-One Bioinspired Neural Network
31	Binghai	Yan	binghaiyan@gmail.com	Weizmann Institute of Science Israel	2D Oxide Semiconductor Bi ₂ O ₂ Se with High Mobility and Exotic Quantum Hall Effect