FALL 2025 ACS MEETING

Division of Physical Chemistry POSTER SESSION

Prof. Francesco Paesani, *Organizer*

Walter E. Washington Convention Center

Hall C

Tuesday, August 19 | 6:00pm – 8:00pm

We gratefully acknowledge the support of our generous sponsor!

The Journal of Chemical Physics

Chemical Physics Reviews

Poster Board #877: Delocalization enhances exciton transport in DNA-based molecular photonic wires, Presented by Madelyn Nicole Scott

Poster Board #879: Exploring the lattice response to photoexcitation in 2D lead Halide Perovskites, Presented by AYUSHI SHUKLA

Poster Board #881: Long-lived photoinduced polar states in metal halide perovskites, Presented by Yixuan Dou

Poster Board #883: Solute diffusion under nanoconfinement in anodic aluminum oxide membranes: An FCS study of n-butanol/water mixtures, Presented by Safoura Asadi

Poster Board #884: Raman-spectroscopic evidence of CO2 adsorption in single MOF crystals, Presented by Matheus Esteves

Poster Board #885: Using EPR and DFT methods to understand the heterodimer BChlg'/Chla' generated by exposure of Heliomicrobium modesticaldum primary donor P800 to dioxygen, Presented by Patrick Landry

Poster Board #886: Theoretical-computational protocol for unveiling spectroscopic signatures of conical intersections in two-dimensional spectra for red-absorbing dyes, Presented by Edoardo Buttarazzi

Poster Board #887: Characterizing spatiotemporal inhomogeneities of multi-layered MoSe2 in hyper-temporal transient nanoscopy, Presented by Hwi Je Woo

Poster Board #888: Harnessing vibronic coherence for efficient energy transfer in DNA–chromophore assemblies, Presented by Yi Ji

Poster Board #889: Unveiling intramolecular charge separation in nanographene based systems: Direct vs symmetry breaking charge separation, Presented by Rafael Muñoz-Mármol

Poster Board #890: Probing the dynamics of phonon polariton active tuning, Presented by Sarah Sutton

Poster Board #892: Band structure mapping of pseudo-perovskites by spectroelectrochemical and optical techniques, Presented by Cintia Hajdu

Poster Board #893: Metal insulator transition in neuromorphic ε-Cu0.9V2O5 single crystal probed by soft X-Ray spectroscopy, Presented by Jialu Li

Poster Board #894: Synthesis and coating of adjustable hollow hydroxyapatite spheres for efficient adsorption of cationic dyes and photocatalytic degradation of anionic dye in wastewater, Presented by Farishta Shafiq | Weihong Qiao

Poster Board #895: Anisotropy and transport of coherent phonon in hybrid two-dimensional lead organic chalcogenides, Presented by Hanjun Yang

Poster Board #896: Illuminating the photon's role in the electrophotocatalytic activity of 9,10-dicyanoanthracene, Presented by Kiser Colley

Poster Board #897: Novel optoelectronic responses to selective mechanical stimuli of perylene diimide molecular crystals, Presented by James Wyatt Eckstrom

Poster Board #898: Characterization of intrinsically disordered protein-polymer interactions with fluorescence polarization, Presented by Wesley Leung

Poster Board #899: Constrained multicomponent TDDFT with nuclear quantum effects: Toward accurate excited-state dynamics and spectroscopic simulations, Presented by Yiwen Wang

Poster Board #900: Photophysics and fluorescence of a DNA-protein photo-crosslinkig model: An innovative combined theoretical and experimental study, Presented by Gabriele Iuzzolino

Poster Board #901: Steering relaxation pathways in supramolecular pentacene assemblies, Presented by David Bain

Poster Board #902: Dynamic probe of aqueous CO2 dissolving using micro-IR spectroscopy for CO2 storage and conversion, Presented by Jiachen Li

Poster Board #903: Enabling ambient stability and quantum integration of organometallic magnonic ferrimagnets via atomic layer encapsulation, Presented by Iqbal Bakti Utama

Poster Board #904: Spectroscopic photoacoustic-ultrasound imaging of biomarkers to assess dynamic changes in cardiac tissue, Presented by Antonio Martino

Poster Board #905: Unveiling the role of matter in polariton-enhanced transport via ultrafast microscopy, Presented by Yaejin Kim

Poster Board #906: Plasmonic trimer-based wearable hydrogel SERS chip for uric acid detection in sweat, Presented by Guoqun Li

Poster Board #907: Nanoparticles: A multifaceted approach to cancer care and environmental sustainability, Presented by Nasrin Hooshmand

Poster Board #932: Nonlinear infrared signal enhancement in weakly-coupled molecular systems, Presented by Ashley Paige Fidler

Poster Board #933: Bond dissociation energies of diatomic lanthanide chlorides, Presented by Yexalen Barrera-Casas

Poster Board #934: Engineering semiconductor materials toward noble-metal-comparable SERS sensitivity, Presented by Xingce Fan

Poster Board #935: Ultrafast time-resolved spectroscopic study of excited state dynamics in human telomeric guanine quadruplexes and i-motifs, Presented by Wai-Ming Kwok

Poster Board #936: Unveiling the optical properties of anisotropic 2D materials, Presented by Pritam Das

Poster Board #937: In-situ probe of molecule adsorption and dielectric dynamics at electrochemical interfaces, Presented by Hui Fang

Poster Board #939: Premelting of solid-state electrolytes at the electrode-electrolyte interface, Presented by Harender Singh Dhattarwal

Poster Board #940: Controlling spontaneous photon emission from quantum dots using directed electric fields, Presented by Arindam Chakraborty

Poster Board #941: Transmissive and reflective 2DIR to characterize ultrafast vibrational dynamics of Lehn's catalyst porous silicon, Presented by Rebecca Hopkins

Poster Board #942: Tale of two metal electrodes: Fundamental insights on electrodissolution from a density functional theory's point of view, Presented by Richard Kang

Poster Board #943: Multimodal ultrafast optical microscopy- spectroscopy and electrochemical investigations of photoexcited dynamics in melanin-based donor-acceptor junctions, Presented by Elham Ghadiri

Poster Board #944: Multiscale and machine learning approaches for the design of electrochemical materials, Presented by Oliviero Andreussi

Poster Board #945: Probing dynamic processes at the interface between organic mixed conductors and aqueous electrolytes, Presented by Connor Gregory Bischak

Poster Board #946: Thermalization impacts on electron transfer rates in nanowires and photosynthesis studied through molecular dynamics, Presented by Josh V Vermaas

Poster Board #948: Electrochemically-assisted low power density laser writing on stainless steel via enrichment of chromium oxides, Presented by Zechariah Pfaffenberger

Poster Board #949: Understanding atomically resolved dissolution of iridium oxide nanocrystals, Presented by Rachel Thatcher

Poster Board #950: Charge transfer with a spin: A generalized CASSCF framework for investigating charge transfer in presence of spin-orbit coupling, Presented by Alok Kumar

Poster Board #951: Potential-dependent cation effects on interfacial H-bond dynamics at 4-MBN monolayers: Insights from 2D-IR spectroscopy, Presented by Austin B. Gilbert

Poster Board #952: Electrochemical performance and thermal stability of low-temperature molten salt electrolytes well above the melting point, Presented by Cynthia Pyles

Poster Board #953: Constrained CASSCF(2,2) approach to study electron transfer between a molecule and metal cluster, Presented by Xinchun Wu

Poster Board #954: Direct and indirect charging effect in the electro-inductive effect, Presented by Jun-Hyeong Kim

Poster Board #956: Probing temperature-dependent vibrational dynamics of 2-trifluoromethylbenzimidazole (TFMBI), Presented by Mariyas Mahipala Mudalige

Poster Board #957: Change point detection to demystify conductance in single-molecule junctions, Presented by Rohan Vaidya

Poster Board #958: Minimally empirical, interpretable interatomic potentials for atomistic simulations of rare-earth electroseparations, Presented by Ankit Kumar Gautam

Poster Board #959: Semiclassical nonequilibrium Green's Function approach to electron transport in systems exhibiting electron-vibration couplings and fast vibrational modulations, Presented by Maicol Arley Ochoa

Poster Board #960: Heterometallo-supramolecular polymer for electrochemical sensing of nitrite, Presented by Riva Akter

Poster Board #961: Carbon nanofibers as the favorite conducting additive for Mn3O4 catalysts for oxygen reactions in rechargeable zinc-air battery, Presented by Augustus Kelechi Lebechi

Poster Board #962: Theoretical analysis of chemical interface damping as measured by single-particle absorption spectroscopy, Presented by David J Masiello

Poster Board #963: Modeling nanoconfined water using a charge-frustrated XY model, Presented by Hari Rajesh

Poster Board #988: Investigation of the conductance isotope effect that increases molecular resistance 20-fold in isotopically labeled oligophenylene imine molecular wires, Presented by Man Hong Andy Cheung

Poster Board #989: Interfacial structure and dynamics of electrolyte solutions interacting with 4-mercaptobenzonitrile-functionalized gold electrodes, Presented by Aritri Biswas

Poster Board #990: Overcoming membrane fouling in water purification: A comprehensive approach, Presented by YASSINE Ezaier

Poster Board #991: Predicting and optimizing adsorption processes with high-throughput simulations and machine learning, Presented by J Ilja Siepmann

Poster Board #992: Solution of the of the mixed potential and thermodynamic and chemical properties of the diatomic molecules, Presented by Divyajitsinh Rajendrasinh Parmar

Poster Board #993: Understanding quantum simulations in dopant-based silicon nanodevices with atomistic Tight-Binding Hartree-Fock theory, Presented by Maicol Arley Ochoa

Poster Board #994: Migdal-Eliashberg calculations on carbon doped supercells of Im-3m H3S, Presented by Anmol Lamichhane

Poster Board #995: Ultra-long-range resonant transport through open-shell donor-acceptor macromolecules, Presented by Mehrdad Shiri

Poster Board #996: Time-dependent approach to multireference coupled cluster theory, Presented by Martin Mosquera

Poster Board #997: Thermodynamic and self-assembly behavior of CTAB in the presence of n-hexane: Implications for porous material templating, Presented by Manish Kumar Sah

Poster Board #998: Isolation of Neon- Argon in Air and its atmosphere by the infusion of Nanomaterials (Nitrosyl- Neon polymers) in an exothermic Atmospheric Condition under aero-dynamics influence, Presented by Salako N Olatunji

Poster Board #999: Low voltage electron microscopy for the morphological characterization and elemental analysis of gold nanoparticle-DNA origami hybrids, Presented by Emad Shahnam

Poster Board #1000: Use of multiscale modeling to resolve ambiguities in the measurement of ion pairing by NMR spectroscopy, Presented by Jason Widegren

Poster Board #1002: Unraveling the quantum landscape: DFT embedding and spectroscopy of Mn-doped CdSe monolayers and nanoclusters, Presented by Chiching Tung | Yi-Hsin Liu

Poster Board #1003: Investigations of beryllium ions on lipid bilayers: comparing FTIR spectroscopy with molecular dynamics and QM analysis, Presented by Joshua A.M. Lucker

Poster Board #1004: Mitigating memory effect in lithium iron phosphate, Presented by Doo Seok Kwon

Poster Board #1005: Prediction of pKa for Light-Harvesting Complexes (LHCs) residues in the presence of LHCs-protein and LHCs-pigment, lipid interactions, Presented by Valentin Gradisteanu

Poster Board #1007: Evaluation of modified graphene oxide for cross-linked anion exchange membrane in water electrolysis, Presented by Kyoung Hoon Chu

Poster Board #1008: Accelerating photocatalysis: Material-efficient microfluidic platform for accessing high-throughput photophysical and excited state quenching data, Presented by Azka Arshad

Poster Board #1009: Bimolecular quenching rate of electron transfer reactions from aromatic amines to coumarin dyes: A conceptual density functional theory-based approach, Presented by Meenu Ganwall

Poster Board #1010: Diffusion-mediated and surface-dependent MoS2 growth by sodium catalyst in operando, Presented by Yoonbeen Kang

Poster Board #1011: Comparison of plasmonic enhanced photoluminescence of upconversion nanoparticles, Presented by Caroline Friedersdorf

Poster Board #1012: Germinal disc in chicken eggs communicates with fresh yolk for nutrition while in neutered store eggs the DNA dies hungry:Soft X-ray and high field MR correlation, Presented by Natalya Tomskikh | Ali Algemesh | Taro Suzuki | Jasper Cheung | Daler Djuraev

Poster Board #1013: Role of the DnaN sliding clamp in replicative polymerase coordination in B. subtilis, Presented by Luke G. O'Neal

Poster Board #1014: Quantum simulations reveal pathways to enhance AR-3 fluorescence, Presented by Danushka Walisinghe

Poster Board #1015: Photophysical studies of MOF encapsulated ruthenium polyimines for light activated drug delivery, Presented by Michaela Senn

Poster Board #1016: Exploring ligand-to-metal charge transfer interactions using X-ray transient absorption spectroscopy, Presented by Miquela Nathalie Premanath

Poster Board #1018: Vibrational spectral prediction of transient species using machine learning potential energy surfaces, Presented by Jonathan Morrell Smith

Poster Board #1019: Ligand photorelease from ruthenium-based complexes encapsulated within polyhedral zinc metal organic frameworks, Presented by Delaney Sellers

Poster Board #1051: Liquid–liquid phase separation of charged proteins mediated by small charged biomolecules, Presented by Minchae Kang

Poster Board #1052: Stimulated emission from plasmonic nanoparticles via transient absorption spectroscopy, Presented by Angela Castillo

Poster Board #1053: High-pressure exciton absorption and emission properties of near infrared lilght-emitting INAS/ZnSe quantum dots, Presented by Ian M Murray

Poster Board #1054: 2D copper MXene material: An approach for energy applications, Presented by Esraa Ragab Ragab

Poster Board #1055: Sequential reactions of acetylene with the benzonitrile radical cation: New insights into structures and rate coefficients of the covalent ion products, Presented by Paige Sutton

Poster Board #1056: Characterizing 6-mercaptopurine hydrates with terahertz spectroscopy and crystal structure prediction simulations, Presented by Temitope Florence Akinode

Poster Board #1057: Mechanisms of dephasing in low temperature hybrid perovskites, Presented by Felice Chan

Poster Board #1058: Organic color centers formation in carbon nanotubes through direct coupling of native DNA bases, Presented by Abhindev Kizhakke Veetil

Poster Board #1059: Characterization and prediction of crystalline hydrates of glutamic acid and aspartic acid, Presented by Emma Singer Covey

Poster Board #1060: Probing the effect of osmolytes on water dynamics through activation energies, Presented by Anjali Radhakrishnan

Poster Board #1061: Unveiling the solvation process of pentafluorobenzoic acid: One water at a time, Presented by Francisco Jimenez

Poster Board #1062: SpectraGuru: An open-source, web-based platform for Raman/SERS data processing, visualization, and sharing, Presented by Yiping Zhao

Poster Board #1063: Threshold-less Raman laser via non-Hermitian anisotropic microcavity polaritons, Presented by Pritam Das

Poster Board #1064: Photophysics and excited state energy and charge transfer in π-conjugated oligomers, Presented by Habtom B Gobeze

Poster Board #1065: Spectroscopic insights into interactions of mixed anions with caffeine, Presented by Yanjie Zhang

Poster Board #1066: Can ozone initiate oxidation of gaseous Hg(0)? Stability of HgO3 and OHgOO isomers, Presented by Darshi Hewa Edirappulige

Poster Board #1067: Brightening of triplet pair states through electronic coupling with WS2, Presented by Qiushi Ma

Poster Board #1068: Effects of polarizable force fields on CO2 structure, dynamics, and spectroscopy in ionic liquids, Presented by Khady Ndiaye

Poster Board #1069: Computational study on the structural and dynamical behavior of CO2 in Ionic Liquids and Poly(Ionic Liquids), Presented by Zijian Huo

Poster Board #1070: Investigating solvent effects on terminal alkynes using a QM/MM methodology, Presented by Emmalyn Song

Poster Board #1071: Plasma diagnostics for the modification of chitosan for use in biomedical devices, Presented by Bethany Yashkus

Poster Board #1072: Kinetics and theoretical insights into the interface reactions of adsorbed hydrocarbons with O(3P) generated by non-thermal plasma, Presented by Rachel Hambuchen

Poster Board #1073: Elucidating the oxidation mechanisms in Cr2AlB2 using density functional theory and thermodynamic modeling, Presented by Ushan Asela Adhikarige

Poster Board #1074: Acquiring the vapor pressure to predict the heat of vaporization and the entropy of mixing of a proxy gasoline, Presented by Shawn Abernathy

Poster Board #1075: Electric field control of selectivity at polarized interfaces, Presented by Madeleine Bell

Poster Board #1076: Precision synthesis of gold nano bipyramids with tunable plasmon resonances by optimizing surfactant ratio in seeds formation stage, Presented by Au Lac Nguyen

Poster Board #1077: Exploring the role of triplet states in the spectroscopy of brominated isoquinolines, Presented by Joshua Valdez

Poster Board #1078: Exploring structure-function relationships of isoquinoline photobases, Presented by Claudia Ramos

Poster Board #1079: Real-time observation of centimeter-scale continuous MoS2 growth via sodium catalyst, Presented by Jinyoung Seo

Poster Board #1081: Preliminary study: Fundamental particle geometry implications in chemistry, Presented by John Palacios

Poster Board #1082: Varying two computational methods for stimulating STM images, Presented by Kaitlyn Mckenzie Handy

Poster Board #1118: Evaluating zero-point energy conservation of linearized semiclassical dynamics in ammonia photodissociation, Presented by Angela Bao

Poster Board #1119: Predicting eutectic points of high-temperature molten salt mixtures via molecular dynamics simulations, Presented by Nastaran Saadati

Poster Board #1120: Role of intracytoplasmic membranes in methanotrophic bacteria studied by imaging and computational approaches, Presented by Michael Konopka

Poster Board #1121: Implementation of neural network for copper ion in AMOEBA force field, Presented by Zhecheng He

Poster Board #1122: Drug distribution and cellular response upon developed resistance to erlotinib in cultured lung cells, Presented by Raghed Kurbaj

Poster Board #1123: Study of formation of halogen bonded complexes using refractive index and NMR, Presented by Kristen Gilmore

Poster Board #1124: Vibrational markers of ion-specific binding in photolabile ion chelators, Presented by Diotima Bose

Poster Board #1125: Quantitative signal analysis of sum-frequency scattering experiments from aerosol surfaces, Presented by Jesse B Brown

Poster Board #1126: Structural spectroscopic characterization of skeletal equine myoglobin mineralized within a zeolitic imidazole framework, Presented by Brielle Wolfe

Poster Board #1127: Heterogeneous ozonolysis of adsorbed α-pinene, Presented by Natalie O'Neill

Poster Board #1128: Terahertz spectroscopy and quantum mechanical simulations of aluminum hydroxide crystal polymorphs, Presented by Adler C Cary

Poster Board #1129: N-heterocyclic carbenes: A versatile molecular family, Presented by Aiden Marques | Megan Fialkowski | Peter Gill

Poster Board #1130: Theoretical electronic spectroscopy of gas phase transition metal acetylide cations (MCCH+, M = Sc,Ti, ... ,Zn), Presented by Haritha Kolavathra Sasi | Nathan J Deyonker

Poster Board #1131: Photosensitized reduction of NO2 by 4-benzoylbenzioc acid: a model system for the role of organic chromophores in daytime HONO formation, Presented by Sofia Chihade

Poster Board #1132: Calculating accurate and efficient transport coefficients from molecular dynamics simulations using the Mori-Zwanzig formalism, Presented by Alex Moncello

Poster Board #1133: Investigation of lamotrigine crystal polymorphs using crystal structure prediction and terahertz spectroscopy, Presented by Salvatore Zarrella

Poster Board #1134: Ultrafast spectroscopy of transparent conducting oxide La-doped BaSnO3 exhibits long lived charge carrier dynamics, Presented by Sara Gebre

Poster Board #1135: Xanthine sensing associated with the porphyrinic metal-organic framework PCN-222, Presented by Julia Theresa DeMatteo

Poster Board #1136: Power of positivity: What vibrational spectroscopy tells us about metal cation binding in chelators and small peptides, Presented by Harrison Vedrani

Poster Board #1137: Peculiar thermodynamic behavior of deeply supercooled equimolar binary mixture of water and ethylene glycol: DSc, density, viscosity, and Raman spectroscopy study, Presented by Matthew Leonard

Poster Board #1138: Computational method for determining the excess chemical potential using liquid–vapor phase coexistence simulations, Presented by Andrew Fadgen

Poster Board #1139: Design and application of hyperreactive superalkalis in chemical discoveries: An ab initio quantum chemical study, Presented by Isuru R Ariyarathna

Poster Board #1140: Molecular origin and quenching mechanism of photoluminescent carbon quantum dots from ammonium citrate, Presented by Wan Ryan Asri

Poster Board #1141: Yield of protein crystallization from metastable liquid-liquid phase separation, Presented by Shamberia Thomas

Poster Board #1174: Time-resolved photoluminescence (TR-PL) spectroscopy for surface characterization of modified metal oxides, Presented by Michael Uzu

Poster Board #1175: Theoretical study of group VIII single-atom behavior on MoS2: Structural and catalytic insights, Presented by Hengyue Xu

Poster Board #1176: From nanospheres to layered structures: Innovative photocatalysts for efficient methylene blue degradation, Presented by Samia Arain

Poster Board #1177: Revealing nanoscale molecular signatures of colorectal cancer cell-derived exosomes via photo-induced force microscopy, Presented by Mingu Kang

Poster Board #1178: Synthesis and evaluation of nanoparticles of different shapes as photocatalalysts for Environmental remediation applicaitons, Presented by Radha Narayanan

Poster Board #1179: Hydrocarbon gas reactions on Si and Mg surfaces: Astrochemical implications, Presented by Nathaniel Carnegie

Poster Board #1180: Optimization of the Hartree-Fock method for the helium atom using the phase-space propagation method of the electronic wave function, Presented by Juan Camilo Revelo

Poster Board #1181: ML-assisted optimization of the polarizable Drude general force field (DGenFF), Presented by Yang Ge

Poster Board #1183: 3D chiral chemical gardens driven by magnetic fields, Presented by Martina Reis

Poster Board #1184: Algorithm to deterministically find a path on free-energy landscapes, Presented by Tetsuro Nagai

Poster Board #1185: Vertical excitation energies and simulated vacuum ultraviolet electronic absorption spectra for small methanol clusters, Presented by Timothy W Marin

Poster Board #1186: Thermodynamic insights on the enzymatic amination reaction of Uracil to Cytosine, Presented by Rajkin Kumar Chakroborty

Poster Board #1187: Deposition of graphene thin films using DC magnetron sputtering method, Presented by Suheyon Nam

Poster Board #1188: Targeting blood cancer cells using antibody-labelled DNA origami nanostructures, Presented by Nick J Vantangoli

Poster Board #1189: Spatiotemporal characterizing of TMD materials via ultrafast nanooscopy, Presented by Hwi Je Woo

Poster Board #1190: Mechanistic insights into the H2 dissociation on plasmonic Au nanoparticles: Effect of nanoparticle structure and pulse properties on charge-driven energy transfer and dissociation efficiency, Presented by Moumita Kar

Poster Board #1191: Near-edge X-ray absorption fine structure spectra and specific dissociation of Phe-Gly and Gly-Phe, Presented by Chen-Lin Liu

Poster Board #1192: Nanoparticle mass spectrometry (NPMS) analysis of HfC sublimation and oxidation at ultra-high temperatures, Presented by Audrey Rose Burrows

Poster Board #1193: Solvent-mediated control of ceiling temperature for developing chemically recyclable polyesters using thermodynamics, Presented by Ramasinghege Lumbini P. Ramasinghe

Poster Board #1195: Density-based many-body expansion for metal clusters, Presented by Kevin Focke

Poster Board #1196: Spectroscopic analysis of carbon dioxide-induced transformation of hydroxy-functionalized amidines into polymeric ionic liquids, Presented by Nikolay Barashkov | Irina Irgibayeva

Poster Board #1230: Theoretical model of protein-porphyrin binding for low-cost detection of PFAS in water, Presented by Ngan Dinh

Poster Board #1231: Bridging wavefunctions and density functionals: Unlocking accurate data for functional development, Presented by Vaibhav Khanna

Poster Board #1232: ACS Petroleum Research Fund (ACS PRF): Impact on chemical physics/physical chemistry, Presented by William Aumiller

Poster Board #1233: Low-temperature reaction kinetics tools for studying metallic and molecular ion chemistry, Presented by Leah G Dodson

Poster Board #1235: Using the Clausius-Clapeyron equation to predict the heat of vaporization (ΔHvap) of concentrated commercial Lysol multi-purpose cleaner, Presented by Monica Maya

Poster Board #1236: Investigating the mechanical response of epidermal growth factor receptor extracellular domain dimers and monomers under a compressive force using single molecule force spectroscopy measurements, Presented by Dedunu S Senarathne

Poster Board #1237: Theoretical study of the photoelectron spectrum of arsine via computing Franck–Condon factors, Presented by Jia-Lin Chang

Poster Board #1238: Constrained multicomponent second-order Møller-Plesset perturbation theory for the treatment of nuclear vibrational quantum effects, Presented by Gabrielle Brieanna Tucker

Poster Board #1239: Electronic structure of graphene nanoflakes having structural defects, Presented by Jaemin Jeong

Poster Board #1240: Binding free energy and orientationaly geometry of intermediates as full descriptors for the electrochemical CO2 reduction at Au surfaces by electrochemical vibrational sum frequency generation spectroscopy (EC-SFG), Presented by Haley Fisher

Poster Board #1241: Hemi-protonated cytosine-cytosine base pairs regulate ultrafast excited-state dynamics in human telomeric and c-MYC promoter i-motifs, Presented by Wai-Ming Kwok

Poster Board #1242: Effect of bond strength variation and ionizing radiation on mutations in cytosine-guanine islands, Presented by Joshua Bedwell

Poster Board #1243: Analyzing the strength of the amine bond of guanine via potential curve analysis: A computational approach, Presented by Yan Poniatovskyi

Poster Board #1244: Ultrafast probing of Trion dynamics via Photodoped moiré systems, Presented by Dorian Gavilanes

Poster Board #1246: CreationCC: A synergistic approach to electron pairing and correlation, Presented by Pratiksha Balasaheb Gaikwad

Poster Board #1247: Quantum sensing in the fractional Fourier domain, Presented by Swastik Hegde

Poster Board #1248: Enabling robust single-molecule fluorescence heterogeneity measurement of BODIPY chromophores with high-throughput single-molecule spectroscopy., Presented by Jessie Wang

Digital iPosters

Poster Board #D25: Synthesis and characterizations of graphene-based quantum dots synthesis for biological imaging, Presented by Hoang Long Nguyen

Poster Board #D26: Leveraging nanophotonic cavities for quantitative diagnostics: From plasmonic to quantum polaritonic sensing, Presented by Peng Zheng

Poster Board #D27: Exploring the biointerfaces: Ab initio investigation of nano-montmorillonite clay, and its interaction with unnatural amino acids and RGDs, Presented by Ashan Sudantha Fernando

Poster Board #D28: Computational design of polarized covalent organic frameworks for photovoltaic applications, Presented by Mikolaj Martyka

Poster Board #D29: How transcriptional bursting and mRNA production affect precise timing of cell lysis phenomena, Presented by Zhuoyan Lyu

Poster Board #D30: How long-range are three-body exchange interactions in liquid water?, Presented by Ommair Ishaque

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