

Poster Titles and Numbers

1	Bridging the Gap: Integrating Machine Learning with Quantum Mechanical Calculations for Enhanced Molecular Electrostatics Modelling <i>Charlie Adams, Josh Horton, David Wright, Daniel Cole</i>
2	Protein dynamics and the temperature adaptation of enzyme catalysis: simulations of wild type and mutants MaLL <i>Marvellous Arabambi, Carlin J Hamill, Vickery L Arcus, Marc van der Kamp, Frank Vollmer and Adrian J Mulholland</i>
3	Multi-Scale Theoretical Investigation of the Linear and Nonlinear Optical Responses of Di-8-ANEPPS Embedded in Complex Environments: on the Way to Explore the Complexity of Cell Membranes <i>Charlotte Bouquiaux, Tarcius N. Ramos, Pierre Beaujean, Frederic Castet, Benoit Champagne</i>
4	Time-dependent study of light-induced hapticity changes in a ruthenium sandwich complex <i>Vera Brieskorn, Basile Curchod</i>
5	Direct dynamics simulation of prospective PFAS molecules dissociation after electron impact of PPVE and C4H3F7O isomers. <i>Ryan Brook, Dmitry Makhov, Dmitry Shalashillin</i>
6	Shapespyer: a Python driven toolchain for soft matter simulations <i>Andrey Brukhno, Michael Seaton, John Purton, Tim Snow and James Douth</i>
7	Exploring Cluster Surface Adsorption: A Proof-of-Concept Investigation of Phase Space Volume Using Nested Sampling <i>Thanawitch Chatbipho, Mingrui Yang, Robert B. Wexler, Livia B. Partay</i>
8	Simulating Nonadiabatic Dynamics Using the Meyer-Miller-Stock-Thoss Hamiltonian: A Comparison of Algorithms <i>Lauren E. Cook, Johan E. Runeson, Jeremy O. Richardson, and Timothy J. H. Hele</i>
9	Isolated cyanovinyl anion as a potential stable synthon <i>Adrianna Cyraniak, Iwona Anusiewicz, Sylwia Freza, Piotr Skurski</i>
10	Exploring Intermolecular Induction through Non-Orthogonal Pauli-Blockade Framework <i>Humahuti Dihingia, Bartosz Tyrcha, Piotr S. Zuchowski, Alston J. Misquitta</i>
11	Improving Gaussian Basis Sets for Molecules with Machine Learning <i>Shaun T. E. Donnelly, J. Grant Hill</i>
12	mol-CSPY: An open-source crystal structure prediction code <i>G. M. Day, J. Bramley, P. W. V. Butler, P. J. Bygrave, D. H. Case, C. Y. Cheng, R. Cuadrado, J. Dickman, J. Dorrell, J. Glover, R. Hafizi, J. Johal, D. P. McMahon, J. Nyman, P. R. Spackman, C. R. Taylor, J. Yang, and S. Yang</i>

13	Predicting Absorption and Emission Spectra of Solvated Nile Red with ESTEEM <i>Nicholas Hine, Jacob Eller, Panos Kourtis, Carlo Maino</i>
14	Spin-Dependent Nonorthogonal Generalised Wannier Functions for Linear-Scaling Density Functional Theory <i>Miguel Escobar-Azor, Ali Safavi, David O'Regan, Nicholas D. M. Hine</i>
15	Contact Map Path Sampling for Protein Folding <i>Ziad Fakhoury, Gabriele Sosso, Scott Habershon</i>
16	Understanding Conformational Free Energy Surfaces through Enhanced Sampling Molecular Dynamics and Unsupervised Clustering Methods <i>Alexandre Ferreira, Matteo Salvalaglio, Ivan Marziano, Rui Guo</i>
17	Catalytic Partial Oxidation of Methane using an Yttria-Stabilized Zirconia <i>Erze Gao, Alexey Sokol, Richard Catlow</i>
18	Fast, accurate and spin-pure calculation of the electronically excited states of radicals <i>James D. Green, Jingkun Shen, Keith T. Butler, Timothy J. H. Hele</i>
19	Electron tunnelling and vibrational relaxation rates for chemisorbed hydrogen on metals from Projector Operator Diabatization <i>Nils Hertl, Zuzsanna Konczor-Benda, Reinhard J. Maurer</i>
20	Insight into the Correlated Disorder of Fumarate-Based MIL-53 Frameworks: A Computational Study of Free-Energy Landscapes <i>Chi Cheng Hong, Ross S. Forgan, Antonia. S. J. S. Mey, Claire L. Hobday</i>
21	Point charge embedding approaches for simulating excited states in MOFs <i>Michael Ingham, Amir Sidat, Alex Aziz, Devis Di Tommaso, Rachel Crespo-Otero</i>
22	Nanoscale Non-adiabatic Dynamics Simulation of Charge Generation in Organic Solar Cells <i>Filip Ivanovic, Samuele Giannini, Jochen Blumberger</i>
23	Electronic structure of the InAs-Al interface via DFT: using ZnTe and CdSe barriers for topological devices <i>Malcolm J.A. Jardine, Derek Dardzinski, Chris J. Palmstrom, Moira Hocevar, Vladimir N. Strocov, Sergey M. Frolov, Noa Marom</i>
24	L1 Metallo-β-Lactamase Antimicrobial Resistance Enzyme: A Computational Reaction Mechanism Study <i>Papu Kalita, Philip Hinchliffe, James Spencer, Adrian J. Mulholland</i>
25	Modelling Excited State Dynamics of Organic Materials in the Condensed Phase <i>Karolina Kapusta, Rachel Crespo-Otero</i>

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26	Covalent Organic Frameworks for Drug Delivery <i>Gregor J. Lauter, Alessandro Calzolari, Ganna Gryn'ova</i>
27	Copper Nanowires for Electrochemical CO₂ Reduction Reaction <i>Wuyang Lin, Azeem Ghulam Nabi, Matteo Palma, and Devis Di Tommaso</i>
28	Nonadiabatic Energy Loss During Hydrogen Scattering on Semiconductors <i>Xuexun Lu, Sara Oregioni, Nils Hertl, Reinhard J. Maurer</i>
29	Automating transition state search in metal catalysed reactions <i>Shoubhik R. Maiti, Fernanda Duarte, David Buttar</i>
30	Machine Learning-Driven Virtual Screening for Antibacterial Design Targeting Enoyl-ACP Reductase (FabI) <i>Verissimo, G.C. ; Kronenberger, T.; Costa, D.M.A.; Maltarollo, V.G.</i>
31	ichor: A Python library for computational chemistry data management and machine learning force field development <i>Yulian T. Manchev, Matthew J. Burn, and Paul L. A. Popelier</i>
32	Alchemical free energy calculations using machine learned forcefields <i>J. Harry Moore, Gabor Csanyi</i>
33	Electrolyte dynamics with potential-induced charges on electrodes: Implementation and usage as a starting point for DFT calculations. <i>Sara Navarro, Federico N. Pedron, Pablo Ordejón</i>
34	Unravelling nucleation in Ferritin nanocages from atomistic molecular dynamics simulations <i>Matteo Paloni, Johanna Galloway, Aaron R. Finney, Fiona Meldrum, Matteo Salvalaglio</i>
35	Investigating conductive properties of a single-heme cytochrome <i>András Pethó, Jochen Blumberger</i>
36	In search of enzyme activation: A steered molecular dynamics/Markov state model workflow for evaluating allosteric drug candidates <i>Frederick Powell, Adele Hardie, Dr Graeme Barker, Julien Michel</i>
37	The comparative assessment of linear and nonlinear Hamiltonian models <i>Chen Qian, Reinhard Maurer</i>
38	Investigating allosteric inhibitory mechanisms of the soluble epoxide hydrolase <i>Qiongiu Qiu, Franca Fraternali and Maria R. Conte</i>

39	Tuning Zeolite Catalysts using Organic Additives <i>Matt Robinson, Andrew Logsdail</i>
40	Understanding Organic Cocrystals for Room Temperature Phosphorescence <i>Kanyarat. Rueangboon, Maria Eugenia. Sandoval-Salinas, Rachel. Crespo-Otero</i>
41	Theoretical Electronic Structure of Iron(III)-Oxo Clusters <i>Ali Safavi, Nicholas Hine</i>
42	The role of structural isomers in the photophysics of organic crystals <i>Maria Eugenia Sandoval-Salinas, Federico J. Hernandez, Rachel Crespo-Otero</i>
43	Exploration of Defect Superstructures in Graphene <i>Benedict Saunders, Lukas Hörmann, Reinhard J. Maurer</i>
44	Non-equilibrium electrons generated from the extended two-temperature model to drive chemical dynamics at surfaces <i>Henry T. Snowden, Reinhard J. Maurer</i>
45	Molecular dynamics investigation of the role of lattice heating in laser-driven hydrogen evolution at copper surfaces <i>Alexander Spears, Wojciech G. Stark, Reinhard J. Maurer</i>
46	Nonadiabatic effects in reactive hydrogen dynamics at Cu surfaces <i>Wojciech G. Stark, Connor L. Box, Reinhard J. Maurer</i>
47	Effective Harmonic Potential Study of Mg Interstitials Using Neural Network <i>Zhuoyang Ti, Georg K. H. Madsen</i>
48	Developing Standardised Modelling Workflows for QM/MM Studies of Metal Oxides <i>O. van Vuren, G. A. Bramley, A. J. Logsdail</i>
49	Computational Approach for Targeting Serine Protease Inhibitors in Oral Cancer: Insights into Serpin Expression Dynamics and Drug Design <i>Soujanya Jagadish Vastrad, Saraswathy Ganesan Rajalekshmi, Ashok Madarkhandi</i>
50	Modelling the Dermal Absorption of Agrochemicals <i>Callum Ward, Conor Whitehouse, Jennifer Webb and Rebecca Notman</i>
51	Elucidating the role of potassium in methane steam reforming using first-principles-based kinetic Monte Carlo simulations <i>Sai Sharath Yadavalli, Carlo Fonte, Glenn Jones and Michail Stamatakis</i>