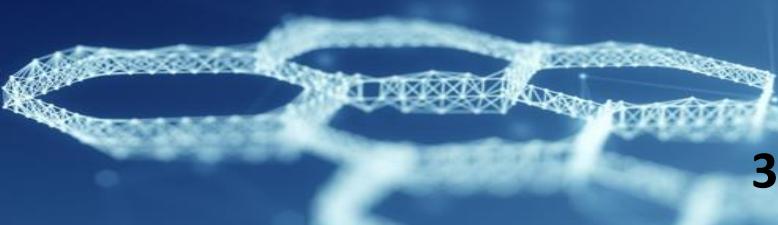


# 33<sup>rd</sup> ACSSC Posters

31<sup>st</sup> January – 2<sup>nd</sup> February 2022

## Monday, 31<sup>st</sup> January

Poster #	Name of the presenter	Poster title
P1	Mohammad Rashedul Hasan	<i>Organisation of a solvent mixture near a nanoparticle</i>
P2	Eirini Goudeli	<i>Modelling the size and structure of fractal-like aggregates under shear by CFDEM</i>
P3	Yunzhou Qian	<i>Agglomeration regimes of particles in shear flow: a numerical study</i>
P4	Amani Alzahrani	<i>Characterisation of non-spherical nanoparticles using scattering techniques</i>
P5	Samir Eldemrdash	<i>Size and shape analysis of detonation nanodiamonds in different solvents using scattering techniques</i>
P6	Katherine Chea	<i>Understanding and controlling the formation of photonic crystals from polydisperse colloidal systems</i>
P7	Sonia Khandaker	<i>The adsorption of anionic surfactant on iron ores at different pH</i>
P8	Alex Griesser	<i>Controlled oxidation of alumina forming superalloys</i>
P9	Foad Raji	<i>Unveiling the effect of heavy metal ions on the structure of interfacial water molecules at the silica-water interface by surface-specific vibrational spectroscopy</i>
P10	David Haryono	<i>Beyond pore scale on “Smart Water” through innovation of nanotechnology-atomic force microscope (AFM)</i>
P11	Daniel Shaw	<i>A machine learning approach to high angle contact angle analysis</i>
P12	Abigail Goff	<i>Liquid metal and liquid metal alloy reaction platforms for the growth of two-dimensional metal oxides</i>
P13	Patjaree Aukarasereenont	<i>Two-dimensional oxide from surface of liquid eutectic chalcogen mixture</i>
P14	Mehmood Irfan	<i>Development of liquid metal alloy-based catalysts for the reduction of carbon dioxide into carbon</i>
P15	Michael Hassett	<i>Crystal structures of protic ionic liquids &amp; their hydrates</i>
P16	Sunil Mehla	<i>Gold sunflower microelectrode arrays for light modulation and SERS</i>
P17	Sunita Gautam Adhikari	<i>Ageing in dye sensitised solar cells: an interfacial study</i>
P18	Bradley Kirk	<i>Introducing neat fullerenes to improve the thermal stability of slot-die coated organic solar cells</i>
P19	Amira Alghamdi	<i>Materials Intermixing and the Dipole Formation at the active Layer/Conjugated Polymer P(NDI3N-T-Br) Interface</i>



# 33<sup>rd</sup> ACSSC Posters

31<sup>st</sup> January – 2<sup>nd</sup> February 2022

**Tuesday, 1<sup>st</sup> February**

Poster #	Name of the presenter	Poster title
P20	Josh King	<i>Advances in technical capabilities for the study of soft matter systems</i>
P21	Jonathan Mantzouridis	<i>Rapid study and classification of formulated fluids by automated extensional rheology</i>
P22	Maxwell Coney	<i>Investigating the effects of ionic liquids on the nucleofugality of chloride</i>
P23	Izabela Milogrodzka	<i>Fusion peptide interactions with the lipidic cubic phase</i>
P24	Jamie Yuen Yi Lam	<i>A metabolic labelling-based approach for highly selective gastrointestinal delivery</i>
P25	Louisa Huang	<i>Antibacterial and antifungal titanium nanostructured surfaces, functionalised by silver nanoparticles for drug resistant pathogens</i>
P26	Priscila Cardoso	<i>Designed tetrapeptide forms nematic hydrogels and hexagonal phases with potent antibacterial and antifungal activity</i>
P27	Monerh AL-Shahrani	<i>Rapid measurement of the effects of antimicrobial drug candidates on bacterial motility</i>
P28	Buddhika Gayani	<i>High throughput analysis of single cell - material interactions: toward novel applications in cancer diagnostics and treatments</i>
P29	Rowan Penman	<i>Imaging changes to the membranes of live fungal cells caused by exposure to gold nanoparticles</i>
P30	Sue Lyn Yap	<i>Cellular uptake pathways of lyotropic liquid crystalline lipid nanoparticles</i>
P31	Kaiwen Zhang	<i>Temporal analysis of stem cells under external stimulation</i>
P32	Thomas Molley	<i>Directed spatial differentiation of mesenchymal stem cells using gradient granular microgels</i>
P33	Shakil Ahmed Polash	<i>Zeolitic imidazolate frameworks in nucleic acid delivery – a structure-property correlation study</i>
P34	Anh Phong Dang	<i>Designing future green personal care products</i>
P35	Samantha Zaman	<i>Silica coated quantum dots as a diagnostic tool</i>
P36	Timothy Hai	<i>The sweet spot: finding an ideal sugar mixture for its use as a cryoprotective agent</i>
P37	Lana Matteucci	<i>Vaginal mucosal infections: an unmet clinical challenge</i>