

ISACS21



Thursday 10 November

| 08:00 | Registration |
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| 10:00 | Welcome and introductions |
| | Session 1: Self-assembly Session Chair: Shu-Hong Yu |
| 10.20 | Supramolecular free radicals Xi Zhang Tsinghua University, China |
| 11:05 | Self-assembled nanocrystal superlattices and their derivatives Angang Dong Fudan University, China |
| 11:25 | Nanoparticle interactions Nicholas Kotov University of Michigan, USA |
| 11:45 | Using crystallisation driven assembly for the preparation of 2D materials Rachel O'Reilly University of Warwick, UK |
| 12:30 | Lunch |
| | Session 1 continued: Self-assembly Session Chair: Nicholas Kotov |
| 13:45 | Dynamic self-assembly of gold nanoparticles for switchable plasmons Tao Ding University of Cambridge, UK |
| 14:05 | From CO ₂ capture to tuneable optics and surfactant self-assembly: teaching anilines new tricks Charl Faul University of Bristol, UK |
| 14:25 | Beyond the Synthesis of Metal Nanostructures Yadong Yin University of California, Riverside, USA |
| 15:10 | Flash Poster Session (by invitation only) |
| 15:40 | Coffee Break and Poster Session |
| | Session 2: Synthetic methodology Session Chair: Raffaella Buonsanti |
| 16:10 | Rational design of organic nanostructure arrays for molecular nano-devices Wei Chen National University of Singapore, Singapore |
| 16:30 | Recent progress in 2D materials: ferroelectricity and ferromagnetism Zheng Liu Nanyang Technological University, Singapore |

| 16:50 | Crystal phase-controlled synthesis of novel noble metal nanomaterials Hua Zhang Nanyang Technological University, Singapore |
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| 17:35 | Dinner |

Friday 11 November

| | Session 2 continued: Synthetic methodology |
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| | Session Chair: Xun Wang |
| 09.00 | Colloidal chemistry to advance energy conversion studies Raffaella Buonsanti |
| 03.00 | École Polytechnique Fédérale de Lausanne, Switzerland |
| | Multiplexed polymer pen lithography for biomedical applications |
| 09:45 | Michael Hirtz |
| | Karlsruhe Institute of Technology, Germany Synthesis of novel diagnostic silicon nanoparticles for targeted delivery of |
| | thiourea to EGFR-expressing cancer cells |
| 10:05 | Yimin Chao |
| | University of East Anglia, UK |
| 10:25 | Coffee Break |
| 10.23 | oonee Break |
| | Session 3: Energy |
| | Session Chair: Yu Huang |
| | Metal-Organic-Framework-derived functional materials for electrochemical |
| 11:05 | energy storage and conversion Xiong Wen (David) Lou |
| | Nanyang Technological University, Singapore |
| | Nanogenerators for self-powered flexible electronics and piezotronics for |
| 11:50 | active human-machine interfacing |
| | Zhong Lin Wang Georgia Institute of Technology, USA |
| | Georgia institute or recrinology, OSA |
| 12:35 | Lunch |
| | Session 3 continued: Energy |
| | Session Chair: Rachel O'Reilly |
| | Strategies to construct low-cost high-performance inverted perovskite solar |
| 13:50 | cells Zusiana Bian |
| | Zuqiang Bian Peking University, China |
| | Metal nitride nanomaterials for high-rate supercapacitors and electrocatalysts |
| 14:10 | Hong Jin Fan |
| | Nanyang Technological University, Singapore |
| 44.00 | Design of flexible on-chip microsupercapacitors for sensing applications |
| 14:30 | Guozhen Shen Institute of Semiconductors, Chinese Academy of Sciences, China |
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| 14:50 | Coffee Break and Poster Session |
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| | Session 4: Nano-biology/medicine Session Chair: Yadong Yin |
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| 16:20 | Compact, polyvalent mannose-quantum dots as sensitive, ratiometric FRET probes for multivalent protein-ligand interactions Yuan Guo University of Leeds, UK |
| 16:40 | Ag₂S quantum dot: a new near-infrared-ii fluorescence nanoprobe for <i>in vivo</i> bioimaging Qiangbin W ang Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China |
| 17:00 | Sequential bottom-up assembly of synthetic cells Joachim Spatz Max Planck Institute for Intelligent Systems, Germany |
| 17:45 | Close of sessions |
| | Conference banquet |

Saturday 12 November

| | Session 4 continued: Nano-biology/medicine |
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| | Session Chair: Hua Zhang |
| 09:00 | Smart interfacial materials from super-wettability to binary cooperative complementary systems Lei Jiang Technical Institute of Physical and Chemistry, CAS, China |
| 09:45 | Self-assembled lipid lyotroic liquid crystalline nanoparticles as potential nanomedicines Jiali (Maggie) Zhai RMIT University, Australia |
| 10:05 | Super-Resolution Fluorescent Imaging for Organic Nanostructures Ming-Qiang Zhu Huazhong University of Science & Technology, China |
| 10:25 | Coffee Break |
| | Session 5: Catalysis Session Chair: Jianfang Wang |
| 11:05 | Exploring energy, environmental, and biological challenges with mesoporous nanoparticle technology Brian Trewyn Colorado School of Mines, USA |
| 11:50 | Carbon dots promise catalytic application Zhenhui Kang Soochow University, China |
| 12:10 | Lunch |
| | Session 5 continued: Catalysis Session Chair: Brian Trewyn |
| 13:15 | Well-dispersed ZIF-derived Co,N-co-doped carbon nanoframe: highly efficient oxygen reduction reaction electrocatalyst Tierui Zhang Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China |

| 13:35 | Plasmonic enhancement of chemical reactions Jianfang Wang The Chinese University of Hong Kong, Hong Kong |
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| 14:20 | Close of meeting |