



Design and Function of Responsive Nanocomposites, 20-21st May 2021

Provisional programme and format:

| Time (BST) | 20 th May 2021 (Thursday) | 21 st May 2021 (Friday) |
|-------------|--|---|
| 08:50-09:00 | Welcome & Meeting Opening | |
| 09:00-09:40 | Prof. Olivier Sandre Magnetic nanoparticles associated with thermosensitive or thermocleavable macromolecules: towards magnetically-assisted drug delivery | Prof. Walter Richtering Responsive Microgels: Tuning properties via architecture |
| 09:40-10:00 | Joana Gonçalves Fucoidan-coated magnetite nanoparticles with enhanced magnetic hyperthermia efficiency | Muhammad Sagir Abubakar Thermoresponsive, pH and redox-sensitive polymer capsules as drug carriers |
| 10:00-10:20 | Eoin M^cKiernan Magnetically responsive polymer nanocomposites for biomedical applications | Danielle Winning Design of a thermoresponsive composite using Poly(N-isopropylmethacrylamide) microgels for biomedical applications |
| 10:20-10:40 | Tea and Coffee/Networking | Tea and Coffee/Networking |
| 10:40-11:20 | Prof. Silvia Marchesan Nanostructured composites in green solvents | Prof. Nebewia Griffete Magnetic molecularly imprinted polymer for nanomedicine |
| 11:20-11:40 | Dayana Guzmán Sierra Flexible bionanocomposites of chitosan and barium titanate with piezoelectricity for biomedical sensor applications | Ana Barra Characterization of hyperthermia heat dissipation in chitosan magnetic nanocomposites |
| 11:40-12:00 | Dorottya Krizsan Dual Emitting Silica Coated Carbon Dot Probes for DNA | Amirbahador Zeynali Direct Laser Writing of Photothermally Active Proteinaceous Microarchitectures |
| 12:00-13:00 | Lunch break | Lunch break |
| 13:00-13:40 | Prof. Erik Reimhult Magnetic nanoparticles in thermoresponsive colloids: controlling aggregation and release via structure | Prof. Andreas Heise Synthetic polypeptides as versatile platform materials from nanomedicine to 3D printed hydrogels |
| 13:40-14:00 | George Newham Polyelectrolyte-templated porous silica nanoparticles: a novel synthetic toolbox for cancer targeted and stimuli-responsive therapeutic delivery | Abdulwahhab Khedr "Mix and Gel": A novel approach for the development of cost-effective nanofibrous peptide hydrogels for biomedical applications |
| 14:00-14:10 | Nabanita Hazra Capillary Driven Self-Assembly of Ellipsoidal Composite Microgels at the Air/Water Interface | Katie M^cGarry Peptide-Supported Magnetic Nanocomposites for Biomedical Applications |
| 14:10-14:20 | Sameer Shingte Process control and engineering in the preparation of iron oxide magnetic nanoparticles | Mohamed Soliman Role of surface charge distribution on self-assembly and gelation of de novo ultra-short constrained ionic-complementary peptides |
| 14:20-14:30 | Jagoda Litowczenko Tuning responsivity of cellular behavior via topographical cues | Krutika Singh Development of double-network inks for extrusion-based printing: rheology and printability |
| 14:30-14:40 | Hannah Kerr Publishing Your Research at the Royal Society of Chemistry | Break for judges |
| 14:40 | | Goodbye & Awards |