



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