

Zsigmondy Colloquium 2026

Poster List

- 1 **In Situ Visualization of Microtubule-Templated Gold Nanowire Growth**
Anasua Barman
TU Dresden
- 2 **Influence of Wettability Gradients on Fluid Imbibition and Mass Transport in Mesoporous Silica Layers**
Lisa Balonier
TU Darmstadt
- 3 **DLP Based 3D Printing of Mesoporous Silica and Separation Behavior of Alumina Based Porous Material**
Surya Suresh Puthenpurackal
TU Darmstadt
- 4 **Surface-Functionalized Protein Nanocarriers: Synthesis and Comprehensive Characterization**
Catherina Zambelli
Max Planck Institute for Polymer Research
- 5 **Kinetic Monte Carlo Simulations for Twinned Nanoparticle Growth and Facet-Selective Etching**
Jyoti Jyoti
Friedrich-Alexander-Universität Erlangen-Nürnberg
- 6 **Coarse-Grained Contact-Area Dominated Interaction for Two-Dimensional Colloidal Nanoparticles**
Harsha Namdeo
Friedrich-Alexander-Universität Erlangen-Nürnberg
- 7 **Nanoparticle Shape Optimization using Differentiable Total Scattering**
Navid Panchi
Friedrich-Alexander Universität Erlangen-Nürnberg
- 8 **Control of Order and Color of Photonic Structures by Spray Coating Polystyrene Particles**
Annika Mauch
Friedrich-Alexander Universität Erlangen-Nürnberg
- 9 **Reverse Adsorption of Gold Core-Shell Nanoparticles Mediated Through Change of Interaction to Polymer Brushes in Solvent Mixtures**
David Nescholta
IPF Dresden
- 10 **The Role of Water-Soluble Additives to Reduce Graphite Agglomeration to Boost Conductive Primer Uniformity and Recyclability**
Leon Germann
Leibniz Institute for New Materials
- 11 **The Effect of Seed Variation on the as-synthesized and Aged Morphology and Optical Properties of Silver Patchy Particles**
Monika Stadelmaier
Friedrich-Alexander-Universität Erlangen-Nürnberg
- 12 **Pinned-Micelle Decorated Gold Nanoparticles as a Platform Technology for Biosensor Development**
Lauren Elaine Ball
Leibniz-Institut für Polymerforschung Dresden e. V.
- 13 **Magnetization Distribution in Magnetic Multi-Core Nanoassemblies, investigated using polarized SANS**
Niklas Berndt
Universität Duisburg-Essen
- 14 **Fabrication of Janus Supraparticles by Induced Phase Separation by Gravity**
Sayanth Ramachandran
Max Planck Institute for Polymer Research
- 15 **Surface modification in confined nanospaces via NHC ligands on gold nanoparticles**
Florian Schmitt
University of Potsdam
- 16 **Enhanced Aging Stability of Ordered Mesoporous Silica Materials Synthesized via True Liquid Crystal Templating - A Small-angle X-ray Scattering Study**
Xiangyin Tan
University of Stuttgart
- 17 **Physicochemical Characterization of Hydrophilic Polyurethane Dispersions: Comparing Colloidal Stability Limits, Hamaker Constants, and Charge Distribution**
Christoph Pumplün
University of Applied Sciences Cologne
- 18 **Dynamic Mixing to Enable Decoupling of Flow Rate and Mixing Properties in Continuous Nanoparticle Synthesis**
Mario Evers
University Duisburg-Essen
- 19 **Advancing Structural Characterization of Surfactant Systems: Integrating Scattering and NMR Methods Using Cardanol-Based Amphiphiles**
Moritz Stanek
Henkel AG & Co. KGaA
- 20 **An Integrated Platform for Rational Ligand Design and Colloidal Stability of Platinum Nanoparticles for Proton Therapy**
Batuhan Deneri
Universität Duisburg-Essen
- 21 **Optimising Stratification in Binary Colloidal Supraparticles**
Frederic Rudlof
Friedrich--Alexander Universität
- 22 **Towards Sustainable Powder Bed Fusion: Biodegradable Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and Polylactic Acid Supraparticles as Hierarchical Building Blocks**
Antonio Perrone
Friedrich-Alexander-Universität Erlangen-Nürnberg
- 23 **Synthetic Melanosomes as a Tunable Model for Shape-Dependent Photonic Crystal Formation**
Carina Bittner
Friedrich-Alexander Universität Erlangen-Nürnberg
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Tzu-Ling Su
Friedrich-Alexander Universität Erlangen-Nürnberg
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Leon Swart
Friedrich-Alexander Universität Erlangen-Nürnberg
- 26 **Emulsion-templated co-assembly: Toward Ordered Silica Inverse Supraparticles**
Natalie Bonakdar
Friedrich-Alexander Universität Erlangen Nürnberg