Particle-Based Materials Symposium 2025 - PARTICLE DESIGN

		Tuesday, O	ctober 7		
8:15 AM	Registration				
	Felix-Klein-Building, Lecture hall H12, 1st floor, Cauerstr. 11, 91058 Erlangen				
8:50 AM	Welcome & Introduction to the Symposium				
	Mandel, Vogel, Engel	Introducing words			
9:00 AM	Session 1: Synthe	eses and Formulations #1 Chair: Karl Mandel			
KEYNOTE	Bart Jan Ravoo	Title tbd			
	Weitong Wang	Tailored synthesis of uniform, size-controlle	ed nanospheres from bio-based polyphenols		
	Bruno Matto	Cohesive supraparticles enabled by biobas	sed nanofibers		
	Lukas J. Roemling	Control of buckling of colloidal supraparticl	es		
	Laxmi M. Bodapati	Colloidal self-assembling for the preparation	n of materials based on transition metals		
10:30 AM	Coffee Break				
11:00 AM	Session 2: Analys	sis and characterization #1 Chair: Robin Klupp Taylor			
KEYNOTE	Jannika Lauth	Probing materials in the fast lane: innovative	ve physical chemistry for colloidal photonics		
	Thomas Kister	Fluorescent sensor for the detection of elemental mercury			
	Emma Chiavelli	Evaluating magnetic nanoparticles for controlled induction heating in thermoplastic composite welding			
	Tero Kämäräinen	Magnetic particle spectroscopy of drying ferrofluid droplets			
12:15 PM	Lunch Break	Lunch is served at Cauerstraße 3, IZNF, ground floor			
1:00 PM	Poster Session #1				
2:00 PM	Session 3: Functional properties #1 Chair: Nicolas Vogel		<u> </u>		
KEYNOTE	Esther Amstad	Microparticles as a base of tough and fatig			
	Markus Retsch	Macro- and mesoscopic gradients in self-a	ssembled colloidal systems		
	Marcel Rey	Responsive self-assembly of photo-deformable colloidal particles			
	Ziwei Thou		sfer between protein and achiral plasmonic assemblies		
	Susanne Wintzheimer Supraparticles as tailorable hybrid catalysts for photo-biocatalytic cascade reactions				
3:30 PM	Coffee Break				
4:00 PM	Session 4: Synthe	eses and Formulations #2	Chair: Doris Segets		
	Maximilian Theis	Facile synthesis of colloidal particles with o	lefined size and composition gradients		
	Nicolás S. Gálvez	Hierarchical porous silica particles			
	Veronika Michel		revisiting importance of surface control and covalency for cycling stability of organic batteries		
	Philipp Schuster	Poly(pentacenetetrone) particles as a high	-capacity cathode for organic batteries		
7:00 PM	Networking Dinner				
	Hotel Bayrischer Hof. Schuhstraße 31, 91502 Erlangen				

		Wednes	day, October 8		
9:00 AM	Session 5: Simulations and models		Chair: Michael Engel		
KEYNOTE	Arash Nikoubashman Carlos L. Bassani Qingguang Xie Silas Wolf	Title tbd Kinetic Monte Carlo simulations of nanoc Evaporation-driven assembly of colloidal Particle segregation in spray-dried supra			
10:15 AM	Coffee Break				
10:45 AM	Session 6: Functional properties #2		Chair: Georg Garnweitner		
	Samuel Hasenauer Iman Elbalasy Sherif Okeil Sara Li Deuso	Tailored aluminum-doped zinc oxide (AZO)	ed mesoporous carbon notube and metal-based materials for nano-electronic applications nanoparticle thin films: controlling morphology and porosity for room-T gas sensing ed supraparticles for tagging and hydrogen detection via magnetic particle spectrosco		
11:45 AM	Lunch break	Lunch is served at Cauerstraße 3, IZNF, ground floor			
12:30 PM	Poster Session #2				
			Chair: Alexander Kühne		
1:30 PM	Session 7: Analys	sis & Characterization #2	Chair: Alexander Kühne		
		sis & Characterization #2 Characterization of diffusion of nanopart	cles by using photon correlation spectroscopy (PCS)		
	Session 7: Analys Pranay K. Chittem Evert Simons Benjamin A. Zubiri	sis & Characterization #2 Characterization of diffusion of nanopart The multi-scale structure of photonic gla Correlative X-ray and electron tomography for co	cles by using photon correlation spectroscopy (PCS) sses mprehensive, quantitative analysis of complex hierarchical particle systems across multiple sca		
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