



11th International Workshop on Functional Nanocomposites



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12 SEP, TUE		13 SEP, WED		14 SEP, THU		15 SEP, FRI	
		08:00	Breakfast	08:00	Breakfast	08:00	Breakfast
		09:00	Welcome & Opening Remarks Franz Faupel & Alexander Vahl	09:00	Session C.1 Lidia Martínez	09:00	Session E.1 Thomas Strunskus
		09:15	Session A.1 Chair: Ana Borrás	09:00	Invited Talk: Advanced (S)TEM investigations of nanomaterials for green energy production Maria Chiara Spadaro	09:00	Invited Talk: The structural analysis of biobased materials by X-ray scattering characterization Shun Yu
		09:15	Invited Talk: Tuning Ag-Au structures at the nanoscale Lidia Martínez	09:30	Plasma-enabled nanocarbons and nanocomposites for zero-carbon world: recent updates Kostya (Ken) Ostrikov	09:30	Cellulose-based smart hybrid materials Stephan Volkher Roth
		09:45	Advances and challenges in the application of the post magnetron in a gas aggregation nanoparticle source Hynek Biederman	09:45	Highly Porous Activated Carbon Electrodes Prepared from The Bio-Wastes – for High-Performance Supercapacitor Applications Amarjeet Kaur	09:45	Facile Scalable Single Step Multi-Level Structure Engineering Makes TiO ₂ /Carbon Nanohybrids a New Promising Lithium-Ion Battery Anode Zhuijun Xu
		10:00	How to locate nanoparticles: Using in-situ diagnostics to understand growth and trapping dynamics Alexander Vahl	10:00	Memsensor Devices: An innovative approach to bio-inspired sensing Rohit Gupta	10:00	In-situ GISAXS/GIWAXS investigation of dcMS and HiPIMS deposited gold onto polymers Yusuf Bulut
		10:15	Operator Risk Assessment during Dismounting and Cleaning of a Gas Aggregation Nanocomposite Deposition Source Harry Nizard	10:15	Wet-coated sensors for virus detection Jungui Zhou	10:15	Morphology changes at the organic-metal interface: effects on the structure, electronic and thermoelectric performance Benedikt Sochor
		10:30	Coffee Break	10:30	Coffee Break	10:30	Coffee Break
		11:00	Session A.2 Chair: Alexander Vahl	11:00	Session C.2 Chair: Stefan Schröder	11:00	Session E.2 Chair: Francesca Borghi
		11:00	Sputter-Based Synthesis of Group IV Transition Metal Nitride Nanoparticles and Nanofluids Andrei Choukourov	11:00	Polarizonic: Earth-Abundant Nanocomposites for Colored Solar Absorbers that Outshine Black Mady Elbahri	11:00	Invited Talk: Exploration of the gap between classical and plasma polymers: fundamental and applied science opportunities Jaroslav Kousal
		11:15	From sputtering onto liquids to functional nanoparticle - hydrogel composites Stephanos Konstantinidis	11:15	Boosting effect of Ag-Cu nanoparticle-built surfaces for LSPR detection of pathogens Vitezslav Stranak	11:30	
		11:30	Plasma polymer and composite nanoparticles from gas aggregation sources: Rebounding upon impact on the substrate Katerina Skorvankova	11:30	CdS/ZnS core/shell nanostructures based broadband Photodetector Tania Kalsi	12:00	Farewell: Final remarks Awarding KiNSIS Poster Award Franz Faupel
		11:45	Electrostatic manipulation of charged nanoparticles for deposition of tailored surfaces Pavel Čurda	11:45	Broadband Solar Absorbers Based on Plasmonic Metal-Dielectric Nanocomposites Moheb Abdelaziz	13:00	
		12:00	Lunch Break	12:00	Lunch Break		
		13:00	Session B Chair: Stephan Volkher Roth	13:00	Session D Chair: Peter Müller-Buschbaum		
		13:00	Invited Talk: Functional Metal Oxide Surfaces: Photocatalytic, Self-Cleaning, Sensing, and Micro-/Nanostructuring Applications Salih Veziroglu	13:00	Invited Talk: Multifunctional plasma-enabled functional thin films low dimensional nanoarchitectures: from synthesis to devices Ana Borrás		
		13:30	Nanostructured iron oxides thin film catalysts developed by RF sputtering for the solar photo-Fenton degradation of methylene blue dye Antonella Milella	13:30	Electron Transport in Discontinuous Thin Metal Films James Eliot Morris		
		13:45	Structure control during in situ printing of functional nanocomposite films for solar cell applications Peter Müller-Buschbaum	13:45	Self-organized Nanoparticle Network Retains Brain-like Critical Dynamics after Covering with an Insulating Matrix Blessing Oluwasayo Adejube		
		14:00	Surface-Grafted Atom Transfer Radical Polymerization on Superparamagnetic Iron Oxide Superparticles Lea Regina Klauke	14:00	A Stretchable and Flexible Neuromorphic Device for in-Materia Adaptive Computing Francesca Borghi		
		14:15	Aerosol assisted atmospheric pressure plasma deposition of nanocomposite coatings for organic water pollutant abatement Fabio Palumbo	14:15	The matrix matters: field-driven phenomena in Ag-based nanofluids prepared by cluster-beam deposition Daniil Nikitin		
		14:30	Inorganic-organic hybrid nanostructures based on biopolymer templating for thermoelectric application Linus Huber	14:30	Relationship between structure, mechanical properties and function in locust cuticle, a functional nanocomposite Chuchu Li		
		14:45	Anti-corrosion polymer gel sheet containing liquid-phase synthesized layered double hydroxide (LDH) nanoparticles Minoru Mizuhata	14:45	Controls of Visible-Light Driven Reduction Reaction at Plasmonic Cathode Electrode Hiro Minamimoto		
		15:00	Coffee Break	15:00	Coffee Break & Group Photo		
		15:45	Social Event: Boat Tour	15:30	Poster Session (Please check the poster list)		
		18:00	Dinner	17:00	IOC Meeting		
				18:00	Conference Dinner		
18:00	Conference Registration & Welcome Reception						
20:00							

"Just for a smooth presentation experience"

Oral Presentations:

- Please deliver your presentation to the technical staff of the meeting room at least 1 session prior to your scheduled time.
- Ensure that your presentation runs smoothly on the designed computer.
- Introduce yourself to the session chairperson before the start of your session.

Poster Presentations:

- Ensure your poster is securely fastened on the assigned board at least 2 hours before your poster presentation slot. Please remove your poster after the poster session ends
- It's essential to be personally present during your assigned poster session. Absent posters will not be included in the abstract book.

	Poster List
P01	Gas Sensing Behavior of Different Two Dimensional Nanostructured Materials Nutan Sharma
P02	Synthesis and Self-Assembly of Titania Nanoplatelets and Their Subsequent Encapsulation in a Polystyrene Shell via Surface-Grafted Controlled Radical Polymerization Jana Struck
P03	Nanoparticles of plasma polymerized hexane as targets for laser-driven proton-boron fusion Marco Tosca
P04	Biopolymer-Templated Deposition of Hierarchical 3D-Structured Graphene Oxide/Gold Nanoparticle Hybrids for Ultrasensitive Surface-Enhanced Raman Scattering Yingjian Guo
P05	One-step synthesis of hybrid ZnO/Ag nanoparticles with tunable optical properties Maria Protsak
P06	Planar memristive devices based on a tunable nanostructured Au/ZrO ₂ composite film Filippo Profumo
P07	Observation of early stages of HiPIMS film formation on polymers with GISAXS Kristian Reck
P08	Forming process and electrical-structural properties of 2D and 3D nanostructured Au resistive switching networks Giacomo Nadalini
P09	Exploring the potential of magnetic, reactant-free nickel nanofluids: a preliminary study Kateryna Biliak
P10	Tailored polymer thin films enabled by initiated chemical vapor deposition (ICVD) Stefan Schröder