

NanoWorkshop 2021



Program

NanoWorkshop program

Tuesday 7.9.2021

18:00-20:00 Registration + Welcome drink

Wednesday 8.9.2021

8:15 – 9:00 Registration

9:00 – 9:20 Welcome

Chair: XXX

9:20 – 10:00 **Invited lecture: C. Villeneuve-Faure (Toulouse) – Local probing of the electrical properties of thin dielectric films: application to silver nanoparticles-based nanocomposite**

10:00 – 10:20 Oral presentation: P. Pleskunov (Prague) – Tantalum oxynitride nanoparticles with tailor-made nanoarchitecture by reactive magnetron sputtering

10:20 – 10:40 Oral presentation: F. Borghi (Milano) – Influence of the nanostructure on the electric transport properties of cluster-assembled gold films

10:40 – Coffee Break

11:10

11:10 – 11:30 Oral presentation: A. Choukourov (Prague) – Direct Deposition of Gas-Aggregated Metal Nanoparticles into Liquid Polymer: A Route to Optically Active Nanofluids

11:30 – 11:50 Oral presentation: D. Nikitin (Prague) – Application of gas aggregated gold nanoparticles for Nanoparticle-Assisted Laser Desorption/Ionization Mass Spectrometry imaging of polymers



11:50-12:10	Oral presentation: A. Sergievskaya (Mons) – Synthesis of metal nanoparticles by magnetron sputtering onto vegetable oils
12:10 – 12:30	Oral presentation: S. Konstantinidis (Mons) – Flexible polymer composites prepared by magnetron sputtering of copper onto liquids
12:30 – 14:00	Lunch
Chair: XXXX	
14:00 – 14:40	Invited lecture: Gocke Bilal (Wuppertal) – Laser synthesis of nanocomposites for additive manufacturing
14:40 – 15:00	Oral presentation: N. Goedecke (Basel) – NanoFrazor – A Nanofabrication Tool for 2D and 3D Devices
15:00 – 15:20	Oral presentation: A. Chumakova (Grenoble) – Complete structural characterization of hierarchical material: from nanoparticles to monodomain mesocrystal
15:20 – 15:40	Oral presentation: T. Košutová (Prague) – Thermal evolution of bilayers composed of fcc nanoparticles
15:40 – 16:10	Coffee Break
16:10 – 16:30	Oral presentation: H. Biederman (Prague) – Novel gas aggregation cluster source equipped with cylindrical post magnetron
16:30 – 16:50	Oral presentation: J. Drewes (Kiel) – In-Situ Diagnostic Methods for the Growth and Transport of Nanoparticles in a Gas Aggregation Source
16:50 – 17:10	Oral presentation: P. Solař (Prague) – Measurement of nanoparticle velocities with mechanical time-of-flight filter
17:30 – 19:30	Social Program

Thursday 9.9.2021

Chair: ...

9:20 – 10:00	Invited lecture: T. Santaniello (Milano) – Additive nano-manufacturing of 3D printed electronics using supersonic cluster beam deposition
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10:00 –	Oral presentation: L. L. Haidar (Sidney) – CCRF Plasma for the Facile Fabrication of Bio-Functional
10:20	Polymeric Nanoparticles
10:20 –	Oral presentation: C. Harder (Hamburg) – Annealing of polymer colloids on CNF layer
10:40	
10:40 –	Coffee Break
11:10	
11:10 –	Invited lecture: A. Vahl (Kiel) – Functional nanocomposites based on nanoparticles via gas
11:50	phase synthesis: fabrication, properties and applications
11:50 –	Oral presentation: M. Mirigliano (Milano) – Nanostructured metallic films for neuromorphic applica-
12:10	tions
12:10 –	Oral presentation: N. Carstens (Kiel) – Neuromorphic Functionalities in Ag-based Nanostructures:
12:30	From Single Gap Switching to Collective Behavior
12:30 –	Lunch
14:00	
Chair:XXX	
14:00 –	Invited lecture: Ondřej Kylián (Prague) – Plasma-assisted synthesis of heterogeneous
14:40	nanomaterials
14:40 –	Oral presentation: M. H. Burk (Kiel) – Deposition of photoswitchable polymer thin films via initiated
15:00	chemical vapor deposition (iCVD)
15:00 –	Oral presentation: Andrei Chumakov (Hamburg) – Spray deposition of ferromagnetic SrFe ₁₂ O ₁₉
15:20	nanoplates colloid at Si and cellulose substrate
15:20 –	Oral presentation: Peter Müller-Buschbaum (Garching) – In-situ study of nanostructure formation
15:40	during printing of hybrid blend films for solar cell application
15:40 –	Coffee Break
16:10	
16:10 –	Oral presentation: S. V. Roth (Stockholm) – Nanogranular Aluminum Layers on Conjugated Diblock
16:30	Copolymer Templates
16:30 –	Oral presentation: B. Sochor (Hamburg) – Effect of doping technique on the structure and thermo-
16:50	electric properties of P3HT-based thin films
16:50 –	Oral presentation: K. Makasheva (Toulouse) – Adsorption of proteins on solid surfaces containing
17:10	AgNPs
17:30 –	Social Program
19:30	

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Friday 10.9.2021

Chair: XXX

9:20 – Invited lecture: A. Behnam (Sidney) – Ion-assisted plasma polymerization: Engineering of
10:00 biomimetic interfaces

10:00 – Oral presentation: Q. Chen (Hamburg) – Biopolymer-templated TiO₂ SERS sensors
10:20

10:20 – Oral presentation: Tianfu Guan (Garching) – Decoding the Self-assembled Plasmonic Nano-
10:40 structure in Colloidal Quantum Dots for Photodetectors

10:40 – Coffee Break
11:10

11:10 – Oral presentation: J. E. Heger (Garching) – Nanoscale Film Formation and Crystallization of Lead-
11:30 free MBI Hybrid Perovskite on Mesoporous Titania during Spray Deposition

11:30 – CONCLUSIONS
12:00

12:30 Lunch
CONFERENCE HISTORY
14:00

This conference has a long history. First meeting was organized at Kiel 2003, then in Geesthacht 2005, Kobe 2007, Prague 2009, Bari 2011, Toulouse 2013, Jaipur 2015, Prague 2017 and the last in Espoo 2019.

WEBSITES OF THE LAST WORKSHOPS

Year	Place	URL
2019	Aalto	http://nanoworkshop.org/
2017	Prague	http://nanoworkshop.org/2017/index.html
2015	Jaipur	http://smrsi.org/nano2015/
2013	Toulouse	http://inpact.inp-toulouse.fr/NanoWorkshop2013/
2011	Bari	http://manager.tf.uni-kiel.de/workshops/bari.php
2009	Prague	https://physics.mff.cuni.cz/kmf/nanoworkshop/
2007	Kobe	http://cx2.scitec.kobe-u.ac.jp/nanoworkshop2007/
2005	Geesthacht	http://manager.tf.uni-kiel.de/workshops/geesthacht.php
2003	Kiel	https://www.tf.uni-kiel.de/matwis/matv/en/nanoworkshops/nanoworkshop-2003-kiel

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