



NANOAPP 2017

Nanomaterials & Application

14th – 18th of June 2017, Bled, Slovenia

NANOAPP 2017 CONFERENCE Day 1: Wednesday, 14th of June, 2017			
17:00-18:30	Round Table: Women in Science (Co-organized by SATENA)		
19:00-22:00	Welcome Reception - Hotel Golf		
End of Day 1			
NANOAPP 2017 CONFERENCE Day 2: Thursday, 15th of June, 2017			
Room	Welcome Remark		
9:00-9:10	prof.dr. Aleksandra Lobnik, chair of Nanoapp		
9:10-9:20	dr. Robert Kokalj, Ambassador, Director-General, Directorate for Economic and Public Diplomacy, Ministry of Foreign Affairs of the Republic of Slovenia		
9:20-9:30	mag. Urban Krajcar, Director General, Science Directorate, Ministry of Education, Science and Sport		
9:30-9:40	prof.dr. Bojan Dolšak, Dean of Faculty of Mechanical Engineering, University of Maribor		
	Chairman: A.Lobnik		
9:45-10:15	S. Sarkar: Strategic Plan towards Establishing a Nanotechnology Enabled Economy		
Room	Chairman: K. Kuroda		
10:15-11:00	PL 1: Clement Sanchez: Hybride materials: History and some perspectives		
11:00-11:30	Coffe Break		
JUPITER A	Session 1: Chairman: S. Parola	JUPITER B	Session 2: Chairman: M. Takahashi
11:30-12:00	KL1: U. Schubert: Surfactant - assisted sol-gel processing: a way to oxide materials with high surface area	11:30-12:00	KL2: A. Gedanken: Sonochemistry of Molten Metals
12:00-12:20	IL1: S. Aldabe Bilms: Mesoporous oxide films as nano-reactors for building photoluminescent nanostructures	12:00-12:20	IL4: D. Portehault: Molten salt colloidal synthesis towards rare compositions at the nanoscale
12:20-12:40	IL2: J. Cambedouzou: Elaborating of silicon carbide with controlled porosity by soft-templating approaches	12:20-12:40	IL5: K.Katagiri: Arrayal of black and white particles as colorful coatings by electrophoretic deposition
12:40-13:00	IL3: G. Seisenbaeva: Mesoporous metal oxide anodes for Li-ion batteries	12:40-13:00	IL6: J.M. Dubois: Novel self-lubricating, low-friction, wear resistant Al-based quasicrystalline coatings
13:00-13:15	OL1: P.Jenuš: W-W2C composites prepared with in-situ synthesis of W2C nanoparticles from various carbon sources	13:00-13:15	OL3: F. Kastanek: Solar water splitting cell for metal nanoparticles production
13:15-13:30	OL2: A. Yilmaz: Improvement Solubility of Celoxib by Inclusion in LP-PEI-SBA-15 Mesoporous Silica: Drug Loading and Release	13:15-13:35	IL29: B. Pichon: Synthesis and Design of Iron Oxide Nanostructures for Spintronic and Energy Storage Applications
13:35-14:30	Lunch		
JUPITER A	Session 3: Chairman: S. Ribeiro	JUPITER B	Session 4: Chairman: V. Kessler
14:30-15:00	KL3: J.O. Durand: Mesoporous silica, periodic mesoporous organosilica, for drug delivery and two-photon Photodynamic Therapy	14:30-15:00	KL4: B. Malič: Inkjet printing of functional-oxide nanostructures with organic solution-based inks
15:00-15:20	IL7: A. Lapanje: Nanomodified bacteria for guided antitumour treatments	15:00-15:20	IL11: L. Blum: 3D printing of hydrogels incorporating biomolecules: from cm towards nm
15:20-15:40	IL8: K. Heuze: Dendritic functionalization of core-shell Fe2O3 MNP's for efficient bio-immobilization or sensing	15:20-15:40	IL12: J. D. Brennan: Combining DNA Nanotechnology with High-Throughput Materials Screening to Generate New Biomedical Device
15:40-16:00	IL9: A. Ouali: Phosphorous dendrimers: some applications in the fields of catalysis, material science and nanomedicine	15:40-15:55	OL5: M. Božič: Green reinforcement filler based on lignin modified cellulose nanofibriles for 3D printing of polymer biocomposites
16:00-16:20	IL10: F. Lerouge: Contract media for multimodal imaging through MRI and spectral photon counting CT scanner	15:55-16:15	IL39: N. Novak Tušar: Catalytic air cleaning using nanomaterials
16:15-17:15	Coffe Break + Poster Session		
JUPITER A	Session 5: Chairman: S. Kobe	JUPITER B	Session 6: Chairman: U. Schubert
17:15-17:35	IL13: N. Jedrecy: Tailoring magnetic properties in composite oxide films:nanoscale effects	17:15-17:45	KL5: A. Beitollahi: Inorganic nanoparticleless self-assembly; processing strategies, structures and applications
17:35-17:55	IL14: S. Begin-Collin: Engineering of smart anisotropic magnetic nano-objects towards an image-guided therapy	17:45-18:05	IL17: A. Shimojima: Design of self-healing silica-based nanomaterials
17:55-18:15	IL15: K. Žužek Rožman: Magnetic nanostructures with added functionalities for future magnetic and medical applications	18:05-18:25	IL18: R. Kargl: Polysaccharides derivatised with amino acids
18:15-18:35	IL16: D. Begin: Functionalized Carbon Nanotubes Filled with Metal Oxide Nanoparticles for Hyperthermia, Imaging, Therapy and Magnetic Manipulation		
18:35	Free evening		
End of Day 2			



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NANOAPP 2017 CONFERENCE Day 3: Friday, 16th of June, 2017			
Room	Chair Chairman: C. Sanchez		
9:00-9:45	PL2: K. Kuroda: Synthetic Aspects of Nanoporous and Nanohybride materials		
9:45-10:30	PL3: J.I. Zink: Multifunctional Mesoporous Silica nanoparticles Controlled by nanomachines for Biomedical Targeting, Imaging and Drug Delivery		
10:30-11:00	Coffe Break		
JUPITER A	Session 7: Chair Chairman: J.O. Durand	JUPITER A	Session 8: Chair Chairman: J.I. Zink
11:00-11:30	KL6: J. Bartlett: Organised Functional Films, Coatings and Powders via Cooperative Physical and Chemical Interactions	11:00-11:30	KL 7: V. Kessler: Metal oxide nanoparticles as functional components in smart drug delivery systems
11:30-11:50	IL19: S. Shimada: Synthesis, isolation, and transformation of orthosilicic acid and its oligomers	11:30-11:50	IL23: C. Carcel: pH-operated functionalized hybrid silica nanoparticles for drug delivery
11:50-12:10	IL20: M. Osada: Hierarchically Structured Assembly of Inorganic Nanosheets for Tailored Fusion materials	11:50-12:10	IL24: S. Lim: Protein Nanocages: A Versatile Molecular Carrier
12:10-12:30	IL21: S. Kovačič: Hierarchically Porous Hybrid Materials Derived from Nanocomposite Foams	12:10-12:30	IL25: R.Le Parc: Self-assembling through H bonds in urea and thiourea based bridged silsesquioxanes
12:30-12:50	IL22: L. Vellutini: The immobilization of cryptophane derivatives onto silica and gold substrates	12:30-12:45	OL9: E. Kranjc: Comparison of Arugula and Escarole interactions with Foliar and Root Applied Platinum nanoparticles
12:50-13:05	OL8: M. Neubert: Short-time annealing for nanomaterials	12:45-13:00	OL10: S. Tavakol: The core of self-assembling peptide nanofibers will influence neurogenesis potential of its attached biological motif
13:10-14:30	Lunch		
JUPITER A	Session 9: Chair Chairman: M. Gaberšček	JUPITER A	Session 10: Chair Chairman: O. Solcova
14:30-15:00	KL8: M. Niederberger: Nanoparticle Assembly: Bridging Size Scales and Dimensionalities	14:30-15:00	KL9: S. Kobe: Nano Technology Used in Producing Permanent Magnets: Energy Applications for the Clean Environment
15:00-15:20	IL26: C.Gerardin: Polymer-stabilized nanoparticles of metal hydroxides and oxides: an efficient preparation route in water	15:00-15:15	OL11: J. Vidmar: The behaviour of zero-valent iron nanoparticles and their interactions with Cd ²⁺ in wastewaters investigated by single particle ICP-MS
15:20-15:40	IL27: X. Cattoen: Multiple functionalization of silica-based materials by click chemistry	15:15-15:30	OL12: V. Tomina: Sol-gel functionalized ceramic membranes for the removal of heavy metal ions
15:40-16:00	IL28: P. Trens: Tuning the Interfacial Properties of Mesoporous Ionosilicas: Effect of Cationic Precursor and Counter Anion	15:30-15:45	OL4: E. Abbe: First Investigation of carbon nanotube based EMI-films for space applications
16:00-17:00	Coffe Break + Poster Session		
JUPITER A	Session 11: Chair Chairman: M. Niederberger	JUPITER A	Session 12: Chair Chairman: B. Malič
17:00-17:30	KL10: M. Takahashi: Centimetre scale micropore alignments in the oriented polycrystalline Meta-Organic Framework films via heteroepitaxial growth	17:00-17:30	KL11: D. Drobne: Nanotoxicology for safe nanotechnology
17:30-17:50	IL30: S. Lambert: Elaboration of an aqueous sol-gel method fro the synthesis of g-Al ₂ O ₃ supports	17:30-17:50	IL32: C. Fito-Lopez: New tools for the risk assesment and risk managment of engineered nanomaterials
17:50-18:10	IL31: J.L. Bantignies: Confinement of organic dyes inside organic nanotubes	17:50-18:10	IL34: L. Carlos: Luminiscent Nanothermometers: What's next
18:10-18:25	OL13: W. Skorupa: Nanoscale anticorrosive protection of pipe organ metallic materials		
19:30-22:30	Conference Dinner - Hotel Toplice		
End of Day 3			



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NANOAPP 2017 CONFERENCE Day 4: Saturday, 17th of June, 2017			
JUPITER A	Session 13: Chair Chairman: L. Blum	JUPITER B	Session 14: Chair Chairman: S. Lambert
10:00-10:30	KL12: J. Homola: Plasmonic biosensors and their analytical applications	10:00-10:30	KL13: M. Gaberšček: Experimental and theoretical investigation of stability of nanoparticulate electrocatalysts
10:30-11:00	KL14: S. Ribeiro: Nanostructured biopolymers platform for biophotonics	10:30-10:50	IL37: G. Dražič: Quantitative Scanning Transmission Electron Microscopy of Cu ₃ Pt based catalyst nanomaterials
11:00-11:20	IL35: M.L. Martinez Ricci: Tuning Plasmonic-Photonic nanocomposites for Electromagnetic Field Enhancement	10:50-11:10	IL38: B. Heinrichs: Organic dyes anchoring in anatase photocatalysts to decontaminate water with solar light
11:20-11:40	IL36: L. Malfatti: Shaping the pores for enhancing Raman detection: Graphene Enhanced Raman Scattering meets molecular imprinting	11:10-11:25	OL6: T. Maver: Development of 3D bio printed scaffolds for wound care
11:40-12:10	Coffee Break		
12:10-12:30	IL40: G. Mohr: Development of indicator dyes for smart sensor textiles and non-wovens	12:10-12:30	IL43: O. Solcova: Endocrine Disruptors Decomposition - Effect of Nanotitania
12:20-12:40	IL41: T. Szabo: Potential of B-cyclodextrine@guest compound inclusion complexes as key units for molecular exchange based sensing layer	12:30-12:50	IL44: I. Melnyk: Membran composites based on inorganic substrates and functionalized polysiloxanes as potential water treatment agents
12:40-13:00	IL42: K. Žagar Soderžnik: 1D nanostructures and 3D vertically aligned nanostructured arrays for sensing applications	12:50-13:05	OL15: N. Vodišek: Self-cleaning and photoactive TiO ₂ -ZrO ₂ -SiO ₂ films on thermosensitive and glass substrates
13:00-13:20	IL48: B. Julian Lopez: Upconverting nanocomposites as NIR light harvesting Systems	13:05-13:20	OL16: Y. Maletkova: Comparison of bimetallic and trimetallic catalyst in reductive dechlorination of PCB's in aqueous solution
13:20-14:30	Lunch		
JUPITER A	Session 15: Chair Chairman: J. Bartlett	JUPITER B	Session 16: Chair Chairman: I. Melnyk
14:30-14:50	IL45: S. Parola: From hierarchical assembly of nanoparticles to aerogels	14:30-14:45	OL19: S. Petlitckaia: Synthesis of geopolymers foams for decontamination of nuclear waste
14:50-15:10	IL46: S. Jun: Aerogels - Recent Progress and Applications	14:45-15:00	OL20: C. Mansasa: Synthesis of core shell nanoparticles to entrap radioactive cesium
15:10-15:30	IL47: R. Šafarič: Determination of Van der Waals peak distances for building micro-sized structures	15:00-15:15	OL22: J. Bumba: waste-free route of silicone recovery from old photovoltaic panels and magnesium scrap
15:30-15:45	OL17: J. Ho Je: Nanowire-sensors for quantitative probing of copper ions in single living cell	15:15-15:30	OL23: V.N. Narwade: Cellulose nanofibrils/Hydroxyapatite based hybrids bio-adsorbents for waste water treatment
15:45-16:00	OL22: A.S.Saleemi: Magneto-transport in transfer free-amorphous carbon thin films	15:30-15:45	OL24: S. Gopi: Polyvinylidene fluoride (PVDF)/chitin composite membranes as a separator for oil-water emulsions
16:00-16:20	OL18: M. Bračič: Bismuth coupled polysaccharide nanoparticles for magnetic resonance imaging	15:45-16:00	OL7: M. Ramezani: Fabrication of antibacterial textile by hexagon silver nanoparticles with new capping agent via polyol process
16:20-16:50	Farewell		
End of Day 4			
Day 5: Sunday, 18 June 2017			
9:00-19:00 Conference Trip - Postojna Cave & Lipica			
End of Day 5			