

PROGRAMME

WEDNESDAY, October 26

08:50 - 09:00 Welcome: Dragan Mihailović

Polymer nanocomposites and related materials

Session title : Nanoparticles and nanosystems

CHAIR: Majda Žigon

9:00 - 09:30	R. Tenne: Inorganic nanotubes and fullerene-like nanoparticles: an update, <i>invited</i>
09:30 - 10:00	R. Torre: Investigations of nanoConfined Water by time-resolved non-linear spectroscopy, <i>invited</i>
10:00 - 10:30	P.Greco: Continuous printing and laser processing of organic multifunctional materials, <i>invited</i>

10:30 - 11:00 coffee break

Session title: Polymer nanocomposites

CHAIR: Renato Torre

11:00 - 11:30	Crnjak Orel: Zinc Oxide/PMMA Nanocomposites as an Effective UV Absorber, <i>invited</i>
11:30 - 12:00	Ivanković: Organic-Inorganic Composites based on Poly(methyl methacrylate) and In Situ Generated Silsesquioxane Structures, <i>invited</i>
12:00 - 12:15	M.Kurečić: Organic/inorganic nanocomposite hydrogels for water treatment
12:15 - 12:30	J.Godnjavec: Multifunctional nanocomposite for UV and bacterial protection
12:30 - 12:45	F. Malin: Polyacryl-organically modified nanoclay composite for anticorrosion application
12:45 - 14:15	Lunch and poster session

Session title: Polymer nanocomposites

CHAIR: Irena Drevenšek Olenik

14:15 - 14:45	M. Fally: Polymer nanocomposite diffraction gratings for neutrons, <i>invited</i>
14:45 - 15:15	J. Kotek: Multiscale approach to mechanical behaviour of polymeric nanocomposites, <i>invited</i>
15:15 - 15:45	J.Strle: Annealing effects on MoSI nanowires, <i>invited</i>
15:45 - 16:00	S. Shelestiuk: Effective Dielectric Response in Ferroelectric Anisotropic Nano Suspensions

16:15 - 16:40

coffee break

16:40 - 18:00	Poster session
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THURSDAY, October 27

Surfaces, interfaces, thin films and nanostructures

Session title: Nanomagnetism (and modification)

CHAIR: Erik Zupanič

9:00 - 09:30	R. Wiesendanger: Computing with Atoms on Surfaces: Towards Atomic Spin Logic Devices, <i>invited</i>
9:30 - 9:45	R. Žitko: Kondo resonance line-shape of magnetic adatoms
9:45 - 10:00	M. Strojnik: Local surface modifications of cuprates with biased AFM tip
10:00 - 10:15	S. Emin: Fluorescence quenching of CdTe quantum dots by Pt nanoparticles
10:15 - 10:40	coffee break

Session title: Oxides (and nanostructure synthesis)

CHAIR: Maja Remškar

10:40 - 11:10	M. Schmid: Ultrathin Oxides: Catalysts and Nanotemplates, <i>invited</i>
11:10 - 11:25	B. Višič: Exfoliated MoS2 nanotubes as graphene analogues
11:25 - 11:40	K. Mramor: Modelling of fullerene production cell
11:40 - 11:55	K. Žužek Rožman: Ferromagnetic Co-Pt and Fe-Pd-based nanotubes produced via direct electroplating
11:55 - 12:10	A.Kržan: New Polymer Nanocomposites with MoS2 Nanotubes
12:10 - 13:40	Lunch and poster session

Session title: Chemical reactions (and properties)

CHAIR: Miha Škarabot

13:40 - 14:10	C. Africh: Scanning Tunneling Microscopy for the study of Chemical Reactions at Surfaces, <i>invited</i>
14:10 - 14:25	P. Kušar: EBL metallic nanowires as plasmonic routers
14:25 - 14:40	M. Tonezzer: Hybrid novel architecture exploiting carbon microfibers and ZnO nanowires
14:40 - 14:55	M. Devetak: Self-assembly of amphiphilic nucleosides on surfaces

14:55 - 15:15

coffee break

Session title: Characterization

CHAIR: Martin Klanjšek

15:15 - 15:30	J. Kovač: Characterization of surfaces, interfaces and thin films with XPS, AES and TOF-SIMS techniques with high depth resolution,
15:30 - 16:00	J.M. Lagaron: Electrospinning of Biopolymers: Applications, <i>invited</i>
16:00 - 16:15	S. R. Pathipati: Time-of-flight photocurrent measurements on graphene
16:15 - 16:30	M. Klanjšek Gunde: Some possibilities for preparation of diffractive optically variable security structures and their properties
16:30 - 16:45	M. R. Dusseiller: NanoŠmano vs. wetPONG - Experiences in Outreach and Education at the BioNanoInterface

FRIDAY, October 28

Advance characterization techniques on nanoscale

Session title: Advance characterization techniques on nanoscale

CHAIR: Boštjan Jančar

9:00 - 09:30	Aleksey Shmeliov: Atomic resolution imaging of 2D nanomaterials, <i>invited</i>
9:30 - 10:00	E.Carlino: Coherent Diffraction imaging at sub-angstrom resolution in a Transmission electron microscope, <i>invited</i>
10:00 - 10:15	I.Iskra: Measuring of particle size distribution in air
10:15 - 10:30	D.Jenko: Cross-sectional TEM/STEM characterization of closed cell structure of aluminium foam
10:30 - 11:00	coffee break

Session title: Advance characterization techniques on nanoscale

CHAIR: Miran Čeh

11:00 - 11:30	F.Hofer: Advanced Electron Microscopy of Complex Nanostructures, <i>invited</i>
11:30 - 12:00	Nina Daneu: Quantitative chemical analysis of interfaces on the sub-nanometer scale, <i>invited</i>
12:00 - 12:15	D.Primc: Structural analysis of nanocomposite hexaferrite-spinel particles using high resolution electron microscopy (HREM)
12:15 - 12:30	D.Verhovšek: TiO2 nanoparticles and their various technological applications

12:30 - 14:00

Lunch