

NanoTech Poland 2021

Hours	9th June - Wednesday		Hours	10th June - Thursday		Hours	11th June - Friday	
8:45 - 9:00	Conference opening: Chair Stefan Jurga			Chair: Adam Patkowski			Chair: Jan Barciszewski	
9:00 - 9:40	Maurizio Fermeglia <i>Multiscale molecular modelling for the design of nanostructured polymer systems: industrial applications</i>		9:00 - 9:40	Wolfgang Parak <i>Some selected applications of colloidal nanoparticles intended for their use in biology</i>		9:00 - 9:40	Fabrizio Mancini <i>Nanosensors and nanozymes stemming from the self-organization of the nanoparticle-coating monolayer</i>	
9:40 - 10:00	Break		9:40 - 10:00	Break		9:40 - 10:00	Break	
	Section Lectures			Section Lectures			Section Lectures	
	Chair: Franz Faupel	Chair: Maciej Kozak		Chair: Jacek Ulański	Chair: Jan Barciszewski		Chair: Józef Barnaś	Chair: Anna Woźniak
	A: Invited	B: Invited		A: Invited	B: Invited		A: Invited	B: Invited
10:00 - 10:30	Ilko Bald	Kohei Soga	10:00 - 10:30	Pier Sazio	Yun Suk Huh	10:00 - 10:30	Eugeniusz Sheregii	Hanne Mørck Nielsen
	<i>Novel nanoarchitectures for the monitoring of single molecules and plasmon induced chemical reactions by surface-enhanced Raman scattering (SERS)</i>	<i>Transparency in Biology for Nano-Biomedical Applications</i>		<i>Embedded semiconductors, metals, 2D materials and catalysts inside active optical fibres</i>	<i>Functional bionanomaterial design and cancer cell treatment model research based on microplasma droplet platform</i>		<i>Free standing graphene: technology, high-quality control, observation of new phenomena</i>	<i>Effects of surface-engineering polymer nanoparticles for improved nano-bio interactions</i>
10:30 - 11:00	Anna Dyrdał	Dorota Chudoba	10:30 - 11:00	Sonia Estrade	Wei Wang	10:30 - 11:00	Jayaramulu Kolleboyina	Tatiana Da Ros
	<i>Nonequilibrium spin-orbit driven phenomena in 2D systems: from spin Hall effect to bilinear magnetoresponse</i>	<i>Modified carbon nanomaterials in biomedical applications</i>		<i>Support vector machine for EELS oxidation state determination</i>	<i>Multifunctional nanoparticles knotted injectable hydrogels to treat an infarcted heart</i>		<i>Hierarchical porous Graphene based metal-Organic framework Hybrids: From Fundamentals and Potential Applications</i>	<i>Carbon nanostructures for theranostic approaches: preparation and preliminary studies of nanocapsules</i>
	A: Contributed	B: Contributed		A: Contributed	B: Contributed		A: Contributed	B: Contributed
11:00 - 11:15	Iwona Pelech	Katarina Siposova	11:00 - 11:15	Anna Pajor-Świerzy	Alicja Tymoszuk	11:00 - 11:15	Sylvia Parzyszek	Karol Szczepanowicz
	<i>Modification of porous carbon spheres with various zinc salts to obtain nanocomposites efficient in CO2 adsorption</i>	<i>Multifunctional zeolite-composites for controlled drug release and modulation of amyloidogenesis</i>		<i>Nanocomposite Inks Based on Metallic Nanoparticles for Fabrication of Conductive Coatings at Low-Temperature Sintering</i>	<i>Zinc Oxide and Zinc Oxide Nanoparticles Impact on in vitro Germination and Seedling Growth in Allium cepa L.</i>		<i>Linearly and circularly polarized fluorescence in assemblies of semiconductor nanocrystals</i>	<i>Theranostic nanocarriers of anticancer drugs</i>
	A: YRF	B: YRF		A: YRF	B: YRF		A: YRF	B: YRF
11:15 - 11:30	Kinga Michalec	Aleksander Ejsmont	11:15 - 11:30	Agnieszka Jedrych	Hanieh Karimi	11:15 - 11:30	Ahmed Subrati	Agnieszka Kamińska
	<i>Design of SnO2/SnS2-based hollow nanospheres for photocatalytic applications</i>	<i>Modified mesoporous carbon platforms for benzocaine delivery—the impact of nitrogen introduction during and post-synthesis</i>		<i>A dual-responsive assemblies of plasmonic nanoparticles in photosensitive liquid-crystalline template</i>	<i>Positronium biomarker in 3D melanoma spheroid model, a novel probe for cancer diagnosis</i>		<i>On the effects of amine functionalization on graphite oxide chemical, morphological, and thermal properties</i>	<i>Raman spectral signature of urinary extracellular vesicles as a diagnostic marker of kidney function in diabetes</i>
11:30 - 11:45	Piotr Staciwa	Klaudia Żebrowska	11:30 - 11:45	Maximilian Heiko Burk	Magdalena Bigaj	11:30 - 11:45	Bartosz Szczepanowicz	Augustyn Moliński
	<i>Effect of preparation method on the properties of carbon spheres for CO2 adsorption</i>	<i>Core-shell nanoparticles as a new type of curcumin transporter to improve combined chemo and photothermal therapy of cancer</i>		<i>Deposition of photoswitchable polymer thin films via initiated chemical vapor deposition (iCVD)</i>	<i>Targeted drug delivery system based on biomimetic coating for synergistic liver cancer treatment</i>		<i>Intermittent covalent bonds and kinetic nanoscale friction on graphene / SiC under increasing contact pressure</i>	<i>Paving the way to detection and oligomerization of Human Cystatin C</i>
11:45 - 12:00	Marcel Zambrzycki		11:45 - 12:00	Monika Gałęzewska		11:45 - 12:00	Ying Wang	
	<i>Carbon nanofibers/carbon nanotubes/Ni-Co ternary nanocomposites as materials for counter electrodes of dye-sensitized solar cells</i>			<i>"One pot" strategy for preparation of conductive composites via graphene oxide reduction by surface-initiated atom transfer radical polymerization</i>			<i>From FeO to FeO2 and Fe2O: Structural flexibility of iron oxide islands and films on Ru(0001)</i>	
12:00 - 12:15	Break		12:00 - 12:15	Break		12:00 - 13:00	Break	
12:15 - 13:15	A: Poster presentations		12:15 - 13:15	B: Poster presentations				

NanoTech Poland 2021

NanoTech Poland 2021								
Hours	9th June - Wednesday		Hours	10th June - Thursday		Hours	11th June - Friday	
	Section Lectures			Section Lectures			Section Lectures	
	Chair: Maciej Wiesner	Chair: Ryszard Krzyminiewski		Chair: Jan Wąsicki	Chair: Arkadiusz Ptak		Chair: Bogdan Idzikowski	Chair: Marek Szymoński
	A: Invited	B: Invited		A: Invited	B: Invited		A: Invited	B: Invited
13:15 - 13:45	Jeffrey McCord	Ewelina Lipiec	13:15 - 13:45	Efren Navarro Moratalla	Paul Beales	13:00 - 13:30	Lech T. Baczewski	Regina Scherließ
	<i>Magnetodynamics of magnetic structures seen by magneto-optical microscopy</i>	<i>Revealing aggregation pathways of neurodegenerative disease-related peptides</i>		<i>Chromium triiodide and the magnetism of flatland</i>	<i>Developing the nano-toolbox for assembly of artificial cells</i>		<i>Spin polarization in hybrid nanostructures composed of magnetic thin film and chiral molecules</i>	<i>Nanoparticles for mucosal vaccination via the respiratory tract</i>
13:45 - 14:15	Sebastian Reparaz	Sylvia Natalie Klodzinska	13:45 - 14:15	Piotr Kuświk	Roland Bennevitz	13:30 - 14:00	Wiktor Lewandowski	Olena Shynkarenko
	<i>Observation of thermal waves (second sound) in a rapidly varying temperature field in Ge between 7 K and 300 K</i>	<i>Biopolymer nanogels for efficient delivery of AMPs to bacterial biofilms</i>		<i>Magnetic Domains without Domain Walls: A Unique magnetic spin texture in Ferrimagnetic Tb/Co Films</i>	<i>Single-molecule force spectroscopy of dynamic biomaterials</i>		<i>Chiral assemblies of plasmonic and luminescent nanoparticles</i>	<i>Surface Plasmon Resonance as a method of early cancer diagnosis</i>
	A: Contributed	B: Contributed		A: Contributed	B: Contributed		A: Contributed	B: Contributed
14:15 - 14:30	Bendykt Jany	Grzegorz Nowaczyk	14:15 - 14:30	Karol Cieřlik	Magdalena Marzec	14:00 - 14:15	Silvio Osella	Angelika Mielcarek
	<i>The Origin of Conductivity Regime Changes for M-S Nano Junction on InP(001) Surface Studied at Atomic Level</i>	<i>Cubosomes based systems for MRI contrast agents</i>		<i>Tuning the electronic properties by repeated sputtering and annealing of clean TiO2(110) surface: a KPFM and LC-AFM study</i>	<i>ToF-SIMS method to study the influence of hyperglycemia on lipid content in beta-cell extracellular vesicles</i>		<i>Hybrid nanomaterials for artificial photosynthesis</i>	<i>Surface engineered Metal-Organic Frameworks nanoparticles for cancer treatment</i>
	A: YRF	B: YRF		A: YRF	B: Contributed		A: YRF	B: YRF
14:30 - 14:45	Katarzyna Kwiecień	Kacper Przykaza	14:30 - 14:45	Amadeusz Popardowski	Bernadeta Dobosz	14:15 - 14:30	Martyna Tupikowska	Anita Kubiak
	<i>STM study of PtSe2 surface morphology before and after modification with Pb clusters</i>	<i>Characteristics of self-organizing biocoatings deposited on plasma activated PEEK polymer</i>		<i>Electrochemical performance of MnO2-based supercapacitors: influence of electrolyte and electrode materials properties</i>	<i>Monitoring of the diffusion processes of functionalized magnetic nanoparticles in biological systems using the ESR method</i>		<i>Designing plasmonic nanoparticles for freezing directed self-assembly</i>	<i>Development of diclofenac-delivery systems based on ordered mesoporous carbon materials</i>
	A: YRF	B: YRF		A: YRF	B: YRF		A: YRF	B: YRF
14:45 - 15:00	Paweł Wojciechowski	Anna Bogdanska	14:45 - 15:00	Marek Weiss	Agata Kubisiak	14:30 - 14:45	Aleksandra Galarda	Jakub Jagielski
	<i>Morphological characterization and electronic properties of pristine and oxygen-exposed graphene nanoribbons on Ag(110)</i>	<i>3D histology volumes; an innovative tool for assessment of biodistribution and aggregation of SPION in vivo</i>		<i>Load-dependent nanofriction hysteresis on graphene oxide surfaces</i>	<i>Adhesion of SARS-CoV-2 S-protein to endothelial cell measured by atomic force spectroscopy</i>		<i>Ordered mesoporous silica materials as effective adsorbents of dyes from aqueous solutions</i>	<i>Studies of glyceryl monooleate based lipid liquid crystalline nanoparticles with glyceryl monolaurate additives</i>
15:00 - 15:15	Adrian Olejnik		15:00 - 15:15	Zygmunt Miłosz		14:45 - 15:00	Bassam Jameel	
	<i>Electrodeposition of dopamine on the surface of boron doped carbon nanowalls – insights into polymerization mechanism</i>			<i>Graphene blocks oxidative segregation of iron dissolved in platinum: a model study</i>			<i>The effect of magnetic fields on the stability of magnetic Pickering emulsion</i>	
15:15 - 15:30	Break		15:15 - 15:30	Break		15:00 - 15:15	Break	

NanoTech Poland 2021

9th June - Wednesday		10th June - Thursday		11th June - Friday	
Hours	Chair: Danuta Kruk	Hours	Chair: Mikołaj Lewandowski	Hours	Chair: Urszula Narkiewicz
	A: Invited		A: Invited		A: YRF
15:30 - 16:00	Lucia Pasquato	15:30 - 16:00	Magdalena Wencka	15:15 - 15:30	Martyna Kotula
	<i>Role of thiolates end-group in ligand arrangement of monolayer protected gold nanoparticle</i>		<i>Collective magnetism of a single-crystalline nanocomposite FeCoCrMnAl high-entropy alloy</i>		<i>Morphology control of ZnO particles via hydrothermal synthesis optimization</i>
	A: YRF		A: YRF		
16:00 - 16:15	Joanna Zakrzewska	16:00 - 16:15	Weronika Andrzejewska	15:30 - 15:45	Klaudia Żebrowska
	<i>Palladium nanoparticles based on bis (amine) palladium (II) carboxylate complexes</i>		<i>Ultrathin γ-Fe₄N films on Cu(001): Influence of the growth conditions on the structure and electronic properties</i>		<i>Facile and Controllable Growth of β-FeOOH Nanostructures on Polydopamine Spheres</i>
16:15 - 16:30	Krzysztof Jerczyński	16:15 - 16:30	Sylvia Ryszczysińska	15:45 - 16:00	Marcelina Kotschmarów
	<i>Molecular brushes used as templates for titanium dioxide nanoparticles</i>		<i>Temperature-dependent up-conversion luminescence in water soluble core@shell nanoparticles containing erbium ions upon 1532 nm excitation</i>		<i>Sorption of avobenzone on the surface of wrinkled mesoporous silica materials modified with zinc oxide</i>
A: Advanced nanomaterials B: Nanobiomedicine				16:00 - ...	Conference closing