2018 IEEE 8th International Conference on Nanomaterials: Applications and Properties

NAN materials: Applications & Properties-2018

Sept. 9-14, 2018, Zatoka, Odesa region, Ukraine

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Main Topics

Nanoparticles & Nanocomposites, 2D Materials, Thin Films, Spintronics, Photonics, Energy Materials, Nanomedicine

Conference Venue

Hotel & Recreation Center "ELLADA"
Address: 99c Prymorska St., Zatoka, Odesa region, Ukraine
Web: http://ellada.odessa.ua

Important Dates

Submission opened: January 15, 2018
Submission closed: May 10, 2018
Acceptance notification: July 15 - August 15, 2018
Program posted online: August 15, 2018

Registration Fees

	International	ex-USSR
Regular:	300 EUR	50 EUR
Phd Student:	150 EUR	25 EUR
Student:	100 EUR	20 EUR

IEEE-members discount: 20 %

Organizers

Main Organizer: Sumy State University (Ukraine)
Co-organizers: Lublin University of Technology (Poland), Technical University of Moldova (Moldova), D. Serikbayev East Kazakhstan State Technical University (Kazakhstan)

General Chairs:
Prof. A. Pogrebnjak, Sumy State University, Ukraine
Dr. V. Novosad, Argonne National Laboratory, USA

Supported by: Ministry of Education and Science of Ukraine, IEEE Ukraine Section

Awards

Student Travel Grants
Best Poster & Best Talk Awards

Contact Us

2 Rymskogo-Korsakova St., 40007, Sumy, Ukraine
Phone: +38 0542 334058, **Fax:** +38 0542 331081
e-mail: info@nap.sumdu.edu.ua

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NAP-2018

Tracks & Topics

01

Synthesis and Properties of Nanomaterials

✓ New routes for synthesis of "building blocks", ✓ Size-, shape- and composition-dependent properties, ✓ Top-down and bottom-up approached for self-assembly, ✓ Block-co-polymers, interfacial science and morphology control, ✓ Nanocomposites and nanohybrids.

02

Thin Films, Nanostructured Materials and Coatings

✓ Advances in deposition techniques, ✓ Thin film growth & epitaxy: theory & experiments, ✓ New materials in thin film form: diamond-like films, granular alloys, high entropy alloys, oxynitrides, intermetallic compounds, ✓ Super-conducting, magnetic, semiconducting, and dielectric films, ✓ Industrial applications.

03

Carbon-based and other 2D Materials

✓ Carbon nanotubes,
✓ Graphene and graphene oxide,
✓ Fullerenes and nanodiamonds,
✓ Dichalcogenides,
✓ Xenes.

04

Spintronics and Spin-related Phenomena at Nanoscale

✓ Spin currents and magneto-transport, ✓ Magnonics, spin waves and magnetization dynamics, ✓ Spin textures, including magnetic domains, vortices and skyrmions, ✓ MRAM, magnetic field sensors, spin logic and related devices, ✓ Amorphous and nanocrystalline magnetic materials, ✓ Hard magnets: thin films, and nanostructures, ✓ Magnetic ribbons, thin films, nanoparticles, and nanowires, ✓Heusler alloys and magnetocaloric materials, ✓ Magneto-optical materials and device,✓ Interplay between magnetism and superconductivity.

05

Nanotechnology and Nanomaterials for Life Sciences

✓ Nanodevices and sensors for bio/nanomedicine, ✓ Nanoparticles-based platforms for cancer diagnostics, imaging and treatment, ✓ Nanoparticles manipulation, microfluidics and lab-on-chip technologies, ✓ Bio-nanomaterials and tissue engineering, ✓ Biomarkers and nanoparticles, ✓ DNA nanotechnology, ✓ Nanotoxicity

06

Photonics & Nanomaterials

✓Plasmonic structures and quantum dots, ✓ Nanophotonics and optical manipulation, ✓ Spectroscopic studies of nanoscale materials, ✓ Molecular energy transfer and light harvesting, ✓ Photonic and optoelectronic materials and devices, ✓ Photodetectors, sensors and imaging, ✓ Non-linear optics.

07

Miscellaneous and Interdisciplinary Topics

✓ Quantum computing, ✓ Nano- and micro-fabrication techniques, ✓ High resolution imaging with scanning probes, ions, X-rays and photons, ✓ Thermal transport and heat exchange at nanoscale, ✓ Experiments at extreme environments (low/high temperatures, high vacuum).

08

Nanomaterials for Clean Energy and Environment

✓ Nanomaterials for solar-to-electric energy conversion, ✓ Hydrogen and fuels cells, ✓ Energy storage and generation, ✓ Bio-inspired energy materials, ✓ Nano-materials for environment protection and remediation; CO_2 reduction, ✓ Nanotech for water technologies.

Find more at:
http://nap.sumdu.edu.ua

Proceedings of the NAP-2018 will be available online in IEEE Xplore Digital Library and indexed by Scopus and Web of Science Core Collection Databases.