

WORLD NANO 2019

WORLD NANOTECHNOLOGY CONFERENCE

Theme:

*Presenting Excellency of Nanotechnology
to Transform the World*

APRIL 15-17, 2019

DUBAI, UAE

MILLENNIUM AIRPORT HOTEL DUBAI
CASABLANCA ST. AL GARHOUD, P.O.BOX 13018,
DUBAI, UAE

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WORLD NANO 2019

Day 1 April 15, 2019 (Monday) @ Garhoud ballroom

08:00-08:40 Registrations

Moderator **Bozena Sikora**, Polish Academy of Sciences, Poland

08:40-09:00 Introduction

Keynote Presentations

09:00-09:40 **Title: Thin ion-conducting membranes for energy technologies: Advanced conformal deposition by electrochemistry**
Philippe Knauth, Aix Marseille University, France

09:40-10:20 **Title: Commercializing Nanotechnology**
Thomas Mensah, Georgia Aerospace Systems, USA

10:20-11:00 **Title: Adsorption induced low temperature transformations of methane adsorbed in IRMOF microporous structures**
Bogdan Kuchta, Aix-Marseille University, France

GROUP PHOTO

11:00-11:20 **Coffee Break** @ **Foyer**

11:20-12:00 **Title: Composite ion exchange membranes with nanometric building units**
Maria Luisa Di Vona, University of Rome Tor Vergata, Italy

Oral Presentations

Sessions On: Medical and Science Nanotechnology | Nanobiotechnology, Nanomedicine & Nanosafety | Nanocharacterization & Nanomanufacturing | Nanochemistry & Wet Nanotechnology | Advances and Implementations in Nanotechnology

Session Chairs : Philippe Knauth, Aix-Marseille University, France
Maria Luisa Di Vona, University of Rome Tor Vergata, Italy
Bogdan Kuchta, Aix-Marseille University, France

12:00-12:20 **Title: Emerging new van der waals semiconductor devices: Opportunities and challenges**
Mohammed Amer, University of California, USA

12:20-12:40 **Title: Development of graphene-based nanomaterials for biomedical applications**
Julia Xiaojun Zhao, University of North Dakota, USA

12:40-13:00 **Title: Iron nanoparticles for biomedical applications – The SEON concept**
Christoph Alexiou, University Hospital Erlangen, Germany

13:00-13:20 **Title: Real-space transfer in graphene-phosphorene heterostructures: Physics and prospective applications**
Maxim Ryzhii, University of Aizu, Japan

13:20-14:10 **Lunch Break** @ **Loumi Restaurant**

- 14:10-14:30 Title: Optogenetic neural interfaces
Jose Higinio Correia, CMEMS-UMinho, Portugal
- 14:30-14:50 Title: Biofunctionalized multifunctional nanoparticles as a potential strategy for a targeted cancer therapy
Przemyslaw Kowalik, Polish Academy of Sciences, Poland
- 14:50-15:10 Title: On-site Gas Sensing by Surface-Enhanced Raman Scattering
Zhang Zhengjun, Tsinghua University, China
- 15:10-15:30 Title: The optimization of methods of synthesis of nickel nanoparticles with silver nanoshell as component of conductive materials
Anna Pajor-Swierzy, Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Poland
- 15:30-15:50 Title: Fabrication of thiol-functionalised core shell magnetic iron oxide nano-particles for Hg²⁺ ion removal in water
Manjunatha. C, R. V. College of Engineering, India
- 15:50-16:10 **Coffee Break** **@ Foyer**
- 16:10-16:30 Title: Oxygen on rutile TiO₂(110) surface: AFM manipulation of charge state and molecular bond
Ivan Stich, Slovak Academy of Sciences, Slovakia
- 16:30-16:50 Title: A sustainable nanotechnological approach for urban mining and recovery of strategic elements
Henrique E. Toma, University of Sao Paulo, Brazil
- 16:50-17:10 Title: Facile synthesis of modified styrene–maleic anhydride/ Zinc oxide polymer nanocomposites for supercapacitor applications
Remya Simon, Stella Maris College, India
- 17:10-17:30 Title: Fabrication of styrene-maleic anhydride /CNT nanocomposites for supercapacitor electrodes
Sohini Chakraborty, Stella Maris College, India
- 17:30-17:50 Title: Nano Drugs: A probable treatment for Alzheimer's disease
Sara Sheikhlary, Kharazmi University, Iran

END OF DAY 1

20:00 @ GALA DINNER

Day 2 April 16, 2019 (Tuesday) @ Garhoud ballroom

Moderator **Anna Pajor-Swierzy**, Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Poland

Keynote Presentations

09:00-09:40 **Title: Reflections on societal impact of nanotechnology in China**
Chen wang, National Center for Nanoscience and Technology, China

09:40-10:20 **Title: Water: Soft in nature, hard in science**
Engge Wang, Chinese Academy of Sciences, China

10:20-11:00 **Title: Applications of Nano-Materials in Chemistry**
Mahmoud Khodari, South Valley University, Egypt

11:00-11:20 **Coffee Break**

@ Foyer

Oral Presentations

Sessions On: Energy and Environment | Electronics | Green Nanotechnology | Nanotech:
Applications in other fields

Session Chairs : Cheng Wang, National Center for Nanoscience and Technology, China
Engge Wang, Chinese Academy of Sciences, China
Mahmoud Khodari, South Valley University, Egypt

11:20-11:40 **Title: Fabrication of multilayer high-k dielectric thin films using deep ultraviolet annealing approach**
Ashwag Mohammad Almaimouni, King AbdulAziz University, Saudi Arabia

11:40-12:00 **Title: Nanoparticles based superhydrophobic coatings for water drag reduction**
Ivan Vakarelski, King Abdullah University of Science and Technology, Saudi Arabia

12:00-12:20 **Title: Research on solid electrolytes for lithium batteries**
Chang-An Wang, Tsinghua University, China

12:20-12:40 **Title: Nanostructured zirconia-based ceramic material fabricated by an oscillatory pressure sintering process**
Zhipeng Xie, Tsinghua University, China

12:40-13:00 **Title: Synergistic antioxidant capacity of grafting gallic acid onto chitosan nano particles against ochratoxin- A toxicity in African catfish, *Clarias gariepinus***
Heba S. Hamed, Ain Shams University, Egypt

13:00-13:50 **Lunch Break**

@ Loumi Restaurant

13:50-14:10 **Title: The production of electrically conductive nanocellulose and its potential**
Hatem Abushammala, Fraunhofer Institute for Wood Research, Germany

- 14:10-14:30 Title: Carbon nanotubes and carbon nanotubes-polymer compositions for photovoltaics and aviation application
Adam Januszko, Military University of Land Forces, Poland
- 14:30-14:50 Title: Multifunctional nanoconstructs based up-converting NaYF₄ doped rare earth
Bozena Sikora, Polish Academy of Sciences, Poland
- 14:50-15:10 Title: Investigation of some physical properties of pure and doped transparent conducting oxides synthesized on glass substrates by chemical method. Application to ZnO, NiO, MoO₃
Ghamnia Mostefa, Laboratoire LSMC, France
- 15:10-15:30 Title: In situ addition of Graphitic Carbon into NiCo₂O₄/CoO composite: Its effect on Oxygen evolution reaction
Ashoka Siddaramanna, Dayananda Sagar University, India
- 15:30-15:50 Title: Utilization of nanomaterial's for enhancing the productivity of solar distiller units
Dhananjay R. Mishra, Jaypee University of Engineering and Technology, India
- 15:50-16:10 **Coffee Break** @ Foyer
- 16:10-16:30 Title: Amino acid coated ultra-small nanoparticles as efficient antibiotics
Rokas Zalneravicius, Center for Physical Science and Technology, Lithuania
- 16:30-16:50 Title: Experimental investigation of the influence of nanofluid-alternating-brine (NAB) flooding on oil recovery in niger delta sandstone reservoir rocks
Olugbenga Falode, University of Ibadan, Nigeria
- 16:50-17:10 Title: Hydrochar functionalized with sulfurous acid of *Agave tequilana Weber* leaves
Jose Anzaldo Hernandez, Universidad de Guadalajara, Mexico
- 17:10-17:30 Title: Graphene oxide coated-glass fibers reinforced unsaturated polyester composites
Mohsin Ali Raza, University of the Punjab, Pakistan
- 17:30-17:50 Title: Genotoxicity of noscapine nanosuspension prepared by microfluidic reactors on hepg2 cell line
Hedieh Ghourchian, Islamic Azad University, Iran
- 17:50-18:10 Title: Effect of silica coating on the physicochemical properties of magnetite nanoparticles: Drug loading and release study
Muhammad Waseem, COMSATS University Islamabad, Pakistan

15:30-16:30- Poster Presentations @ Foyer

- P1 Title: Comparative study of antimicrobial activity of various silver nanoparticles synthesized by various green methods
MayReda Mohamed, Ajman University, UAE
- P2 Title: Exploring nose-to-brain insulin delivery as a new strategy for the treatment of Alzheimer's disease
Giovanni Cusimano, Institute of Biomedicine and Molecular Immunology "Alberto Monroy", Italian National Research Council (IBIM-CNR), Italy

- P3 Title: Hydrochar functionalized with sulfurous acid of Agave Tequilana Weber leaves
Jose Anzaldo Hernandez, Universidad de Guadalajara, Mexico
- P4 Title: Self-assembly by multi-drop evaporation of carbon-nanotube and graphene-oxide-platelet droplets on a polycarbonate substrate for applications in energy and medicine
Hatim Machrafi, Universite libre de Bruxelles, Belgium
- P5 Title: Research of dye synthesis photovoltaic cells (DSSC) with photoanodes from ceramic nanofibers
Tomasz Tanski, Silesian University of Technology, Poland
- P6 Title: Nanobiointeractions: Nanoparticle induced modulation of immune system
Roberta Cagliani, University of Genova, Italy
- P7 Title: Modification of PES membrane through in-situ formed silver nanoparticles to mitigate biofouling
Karel Havlicek, Technical University of Liberec, Czech Republic
- P8 Title: Functionalized graphene oxide as a new, high performance adsorbent of heavy metal ions and organic dyes
Dawid Pakulski, Adam Mickiewicz University in Poznan, Poland
- P9 Title: Evaluation of NZVI injection at the contaminated site using newly developed software
Magda Nechanicka, Technical University of Liberec, Czech Republic
- P10 Title: Advanced Li₂S@VO₂ Cathode for Lithium-sulfur Battery
Jing Xu, Zhengzhou University, China
- P11 Title: Genotoxicity of noscapine nanosuspension prepared by microfluidic reactors on hepg2 cell line
Hedieh Ghourchian, Islamic Azad University, Iran
- P12 Title: Development of continuous synthesis of iron oxide nanoparticles for biomedical and clinical applications
Abdulkader Baki, Fraunhofer IMM, Germany

End Note

Day 3 April 17, 2019 (Wednesday)@ Garhoud ballroom

Extended Networking

11:00-11:20 Coffee @ Al Jaddaf Meeting room

13:00-14:00 Lunch @ Loumi restaurant

16:10-16:30 Coffee @ Al Jaddaf Meeting room

We wish to meet you again at

**2nd Edition of
World Nanotechnology Conference**

April 27-29, 2020 | Philadelphia, USA

www.worldnanotechnologyconference.com

Email: worldnano@magnus-group.org



Questions? Contact

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More Information:

Please visit:

www.worldnanotechnologyconference.com