

Scientific Program

International Conference on

Nanotechnology and Nanoengineering

July 16-18, 2018 | Paris, France

July 16, 2018	Nanotechnology Agenda	Day 1

09:30-10:00	**Registration**

Conference Hall: Aurelia

10:00-10:20	**Opening Ceremony**
10:20-10:30	**Introduction by Moderator**
10:30-11:00	**Keynote Forum** **Title: Physical basis and atomic scale aspects of displacive transformations of shape memory alloys** **Osman Adiguzel,** Firat University, Turkey

Networking and Refreshment 11:00-11:20 @ Le Foyer

11:20-11:50	**Title: Surface-engineered lanthanide cation-doped -maghemite nanoparticles (NPs) - Innovative NPs functionalization/nanoscale drug delivery for effective anti-Leishmania bioactivity** **Jean-paul Lellouche,** Bar-Ilan University, Israel
11:50-12:20	**Title: Electrical resistance of metallic and semiconductor nanowires** **Waldemar Nawrocki,** Poznan University of Technology, Poland
12:20:12:50	**Special Session** **Title: Concave bending of contact line due to polarization and surface trapping** **Jiangtao Cheng,** Virginia Tech College of Engineering, USA
10:40-10:50	**Group Photo**

Lunch Break 13:00-14:00 @ Food and More

Oral Session I:
Nanotoxicity | Nanomechanics | Graphenes and 2D Materials | Nanobiotechnology | Nanoengineering | Cancer Nanotechnology

Session Chair: **Osman Adiguzel,** Firat University, Turkey
Session Co-chair: **Jean-paul Lellouche,** Bar-Ilan University, Israel

14:00-14:20	**Title: Modulation doping and energy filtering in two-dimensional, diChalcogenides: Moving toward flexible thermoelectrics with a ZT ~ 1** **Hewitt Corey,** Wake Forest University, USA
14:20-14:40	**Title: Extraordinary anticancer activity of graphene oxide-associated therapeutic antibodies** **XinJian Chen,** University of Utah, USA

14:40-15:00	**Title: Fine crystallization of layer double hydroxides with silica nanoseeds and high activity for base catalysis** **Nishimura Shun,** Japan Advanced Institute of Science and Technology, Japan
15:00-15:20	**Title: The roles of nanomaterials in electrical communication, neural connection and brain function of biosystems** **Sheng Yong Xu,** Peking University Beijing, China
15:20-15:40	**Exploring modified Hermite-Gaussian waves for phase-front engineering in a graded index photonic crystal operating out of metamaterial classs** **Evrim Colak,** Ankara University, Turkey

Networking & Refreshment Break, 15:40-16:00 @ Le Foyer

16:00-16:20	**Title: Electrons without effective mass as described by twin physics** **Anna Catharina Maria Backerra,** Eindhoven University of Technology, Netherlands
14:25-14:50	**Title: Numerical study of the forced convection heat transfer for cooling by Hybrid Nano-fluids** **Houda Baghli,** University M'hamed Bougara of Boumerdes, Algeria
16:40-17:00	**Title: Multi-frequency low-pass, band-pass and band-stop type spatial filtering in a photonic crystal** **Evrim Colak,** Ankara University, Turkey

Session Adjournmnet

July 17, 2018 **Day 2**

Conference Hall: Aurelia

10:00-10:10	**Introduction by Moderator**
10:10-10:40	**Keynote Presentation** **Title: Neuro-degenerative diseases by UV radiation from nanoparticles** **Thomas V Prevenslik,** QED Radiations, China

Networking & Refreshment Break, 10:40-11:00 @ Le Foyer

11:00-11:30	**Title: Smart nano-systems based on polymeric lipid vesicles and their applications in tumor diagnosis and therapy** **Jin Chang,** Tianjin University, China
11:30-12:00	**Title: Flexible quantum dots sensitized Solar cells** **Basma EL zein,** University of Business and Technology, Saudi Arabia
12:00-12:45	**Workshop** **Milestones of charged particle guiding through nanocapillaries in insulating polymers** **Nikolaus Stolterfoht,** Hahn-Meitner-Institut Berlin, Germany

Lunch 12:45-13:45 @ Food and More

13:45-14:30

Title: A practical approach to customizing Intellectual Property strategies for commercialization of Nano-Based solutions
Youssef Ghassemi, University of Paris Sud, France

Oral Session II: Nanomedicine | Nano Pharmaceuticals | Recent Innovations | Nanomechanics | Nanophotonics

Session Chair: **Jiangtao Cheng,** Virginia Tech College of Engineering, USA
Session Co-chair: **XinJian Chen,** University of Utah School of Medicine, USA

14:30-14:50

Unidirectional and bidirectional beam splitting in photonic structures due to diffraction with defect layer replacing interface corrugations
Evrim Colak, Ankara University, Turkey

14:50-15:10

Title: Nanotechnology Education in America
Kevin Conley, Forsyth Technical Community College, USA

15:10-15:30

Title: Engagement strategy to transform Nanotechnology based products from theories to the factory floor in the Middle East
Ahmed Abushomi, The University of Oxford, UK

15:30-15:50

Title: Effects of Biocompatible Substrates on the Electrical Properties of Graphene
M. Amiri, Sharif University of Technology, Iran

15:50-16:10

Title: Transparent oxide incorporation for anti-static polyester fabric
K.A.A. Ruparathna, University of Peradeniya, Sri Lanka

Networking & Refreshment Break, 16:10-16:30 @ Le Foyer

16:30-16:50

Title: Development of a nanosensor based on the quenching effect of MWCNTs for glucose monitoring in serum
Amina Rhouati, Ecole Nationale Supérieure de Biotechnologie, Algeria

16:50-17:10

Two different beam deflection mechanisms together with unidirectionality in photonic structures without corrugations under oblique incidence
Evrim Colak, Ankara University, Turkey

Poster Session (17:10-17:40) @ Le Foyer

Session Judge: Waldemar Nawrocki, Poznan University of Technology, Poland

Nano-01

Title: Nano-hydroxyapatite and phosphate glass fibre reinforced Poly-lactic acid based hybrid composites for biomedical applications
Sharmin N, University of Nottingham, China

Nano-02

Title: Evaluation of cure depth and geometrical overgrowth depending on Zirconia volume fraction using digital light processing
Sang-Won Park, Chonnam National University, Korea

Nano-03

Title: Ionic polymer metal composite actuators based on silver nanowires/platinum electrodes with large deformation and fast response rate
Minjeong Park, Inje University, South Korea

Nano-04

Title: PEDOT:PSS/Graphene oxide-silver nanowires paper electrodes by using Triton X-100 to enhance the driving properties of electroactive polymer actuators
Seokju Yoo, Inje University, South Korea

Nano-05

Title: Enhanced durability of ionic electroactive polymer actuators coated with hexagonal-boron nitride
Yunkyeong Bae , Inje University, South Korea

Nano-06

Title: Classification based computation: Nanofibrous scaffolds architecture using support vector regression analysis
Tajudeen Ayodele Adebileje, Tehran University of Medical Sciences-International Campus (TUMS-IC), Iran

Session Adjournmnet

July 18, 2018 **Day 3**

Networking & Lunch Break 13:15-14:00 @ Food and More

Conference Adjournment