

<b>Program for EMN Greece Meeting 2018</b>		
15:00-17:30	<b>Monday May 14</b> <b>Onsite registration &amp; Sign up</b>	
<b>Tuesday May 15</b> <b>MINOS1 Room A</b>		
<b>Session: Keynote Chair: Constantinos Simserides</b>		
08:30-09:00	A01: Topological States Derived from Artificial Graphenes	<b>Xiao Hu</b> National Institute for Materials Science, Japan
09:00-09:30	A02: Photothermal conversion of conjugated polymers by NIR light	<b>Eunyoung Kim</b> Yonsei University, Korea
<b>Session: Biophysics Chair: Constantinos Simserides</b>		
09:30-09:55	A03: Carrier transfer and transport along nucleic acid wires	<b>Constantinos Simserides</b> National and Kapodistrian University of Athens, Greece
09:55-10:20	A04: Generalized Mulliken's formula for photoinduced electron transfer processes	<b>Nektarios Lathiotakis</b> National Hellenic Research Foundation, Athens, Greece
10:20-10:45	A05: In Quest for Improved Drugs against Diabetes: The Added Value of X-ray Powder Diffraction (XRPD) Methods	<b>Irene Margiolaki</b> University of Patras, Greece
10:45-11:05	Session Break	
<b>Session: 2D materials Chair: Fabien Silly</b>		
11:05-11:30	A06: Novel robust routes to assembling and crystallizing nanoparticles in two- and three-dimensions	<b>David Vaknin</b> Ames Laboratory, Iowa State University, USA
11:30-11:55	A07: Novel Epitaxial Growth Methods for Nitride Materials with Using Plasma Technology	<b>Osamu Oda</b> Nagoya University, Japan
11:55-12:20	A08: Charge density wave order in 2D transition metal dichalcogenides	<b>Hyejin Ryu</b> Korea Institute of Science and Technology, Korea
12:20	Lunch Break	

**Tuesday May 15****Room A****Session: Advanced Materials Chair: Jonas Fransson**

14:00-14:25	A09: A Theoretical Study of Hydrogen Conduction in Perovskite-Type Oxides	<b>Taku Onishi</b> Mie University, Japan
14:25-14:50	A10: Dehydrogenation reactions of naphthalene on Ni(111)	<b>Mats Göthelid</b> KTH Royal Institute of Technology, Sweden
14:50-15:15	A11: Strain measurements and mapping with a nanometer resolution and high precision at the most basic conventional TEM: moiré based technique by specimen design	<b>Nikolay Cherkashin</b> CEMES-CNRS, France
15:15-15:40	A12: Spin dependent transient current through one-dimensional quantum dot	<b>Tokuei Sako</b> Nihon University, Japan
15:40-16:00	Session Break	
<b>Session: Magnetic and Superconductor Materials Chair: Xiao Hu</b>		
16:00-16:25	A13: Anisotropy and Phase Separation in Superconducting Chalcogenides and Pnictides	<b>Roman Puzniak</b> Institute of Physics of the Polish Academy of Sciences, Poland
16:25-16:50	A14: Magnons in a honeycomb lattice	<b>Jonas Fransson</b> Uppsala University, Sweden
16:50-17:15	A15: Scaling laws in magnetic systems at finite temperature	<b>David Laroze</b> Universidad de Tarapacá, Chile; Yachay Tech University, Ecuador
17:15-17:40	A16: Atomic-scale distortions and temperature-dependent large pseudogap in thin films of the parent iron-chalcogenide superconductor $\text{Fe}_{1+y}\text{Te}$	<b>Andrea Gerbi</b> CNR-SPIN Institute for Superconductors, Italy
17:40-18:05	A17: Synthesis of epitaxial superconductive (Nb,Ti)N ultrathin films by a Chemical Vapor Deposition route	<b>Elisabeth Blanquet</b> Grenoble Institute of Technology, France
18:10	Dinner Social	

**Wednesday May 16****Room A****Session: Graphene and Carbon-based Nanomaterials Chair: Amy M. Scott**

08:35-09:00	A18: High-Tech Materials for Permanent Digital Data Storage	<b>Barry M. Lunt</b> Brigham Young University, USA
09:00-09:25	A19: On-surface synthesis of 2D porous organic covalent-nanoarchitectures	<b>Fabien Silly</b> CEA Saclay, France
09:25-09:50	A20: Nanoscale mechanisms of plasma-based nucleation of carbon nanostructures	<b>Umedjon Khalilov</b> University of Antwerp, Belgium
09:50-10:15	A21: Multilayer graphene as microwave devices and circuits	<b>Hee-Jo Lee</b> Daegu University, Korea
10:15-10:40	A22: Synthesis, mechanistic investigation, and application of photoluminescent carbon dots	<b>Quan Xu</b> China University of Petroleum, Beijing, China
10:40-11:00	Session Break	
<b>Session: Functional Interface Materials Chair: Barry M. Lunt</b>		
11:00-11:25	A23: Amorphous Oxide Semiconductor Thin Film for OPV Devices by Metal Organic Decomposition (MOD) Coating Process	<b>Tohru Sugahara</b> Osaka University, Japan
11:25-11:50	A24: Ultrafast Dynamics of Light-Harvesting D-A-A Polymorphs for Solar Energy Conversion	<b>Amy M. Scott</b> University of Miami, USA
11:50-12:15	A25: Electrical properties of midwave and longwave InAs/GaSb superlattices grown on GaAs substrates by molecular beam epitaxy	<b>Djalal Benyahia</b> Military University of Technology, Poland
12:15	Lunch Break	

<b>Wednesday May 16</b>		
<b>Room A</b>		
<b>Session: Multiferroics and Ferroelectrics Explicitly Chair: Evgeny Yu. Perlin</b>		
13:30 -13:55	A26: Investigation of pyroelectric performances of PMNT single crystals for infrared detector	<b>Haosu Luo</b> Shanghai Institute of Ceramics, CAS, China
13:55 -14:20	A27: Observation of magnetic domains in magnetoelectric hexaferrites	<b>Hiroki Ueda</b> University of Tokyo, Japan
14:20-14:45	A28: The photocatalytic and ferroelectric properties of SrBi <sub>2-x</sub> LaxNb <sub>2</sub> O <sub>9</sub> powders	<b>Guorong Li</b> Shanghai Institute of Ceramics, CAS, China
14:45-15:10	A29: Charge-order-induced ferroelectricity in complex oxide superlattices	<b>Se Young Park</b> Seoul National University, Korea
15:10-15:40	<b>Poster Session</b>	
<b>Session: Photonics Chair: Tokuei Sako</b>		
15:40-16:05	A30: Ultrafast All-Optical Switching due to Photon-Avalanche-Like Processes in Quantum Wells	<b>Evgeny Yu. Perlin</b> St.Petersburg State Research University ITMO, Russia
16:05-16:35	A31: Infrared emission from Er doped SiO <sub>2</sub> /nc-Si multilayers for all-silicon on-chip application	<b>Halina Krzyzanowska</b> Vanderbilt University, USA
16:35-17:00	A32: Bose – Einstein Condensate of dipolar excitons in a 1D Trap(exact solution)	<b>Alexander V. Chaplik</b> Rzhanov Institute of Semiconductor Physics, Novosibirsk, Russia
17:00-17:25	A33:Hebbian and anti-Hebbian Learning of Qubit Networks for Quantum Associative Memory	<b>Yoshihiro Osakabe</b> Tohoku University, Japan
17:25-17:50	A34:The Creation and the Annihilation Operators Acting on the Anyon's Knots in the Frame of the Topological Quantum Computing	<b>Cartas Viorel</b> Low Danube State University of Galati, Romania
17:50-18:15	A35: New Trends in Optical Communications	<b>Moustafa Hussein Aly</b> Arab Academy for Science, Technology and Maritime Transport, Egypt
18:15	Dinner Social	

**Thursday May 17**

**Room A**

**Session: Frontiers of Nanomaterials and Devices Chair: Taku Onishi**

08:35-09:00	A36: Tailoring chemical and physical properties of polyaniline based hybrid nanocomposites for a wide range applications: electronic gas sensors and flexible printed antennas	<b>Jean-Luc Wojkiewicz</b> Institut Mines Telecom Lille Douai, France
09:00-09:25	A37: New developments of the Smart Cut process for thin film transfer	<b>Alain Claverie</b> CEMES-CNRS, France
09:25-09:50	A38: Properties and applications of nanostructured thin films formed via nanoscale grinding	<b>Chris Papadopoulos</b> University of Victoria, Canada
09:50-10:15	A39: Tailoring perpendicular exchange bias coupling in Au/Co/NiO layered system by ion bombardment	<b>Piotr Kuswik</b> Institute of Molecular Physics, Polish Academy of Sciences, Poland
10:15-10:40	A40: Electrodeposited nanostructures for magnetic, energy and sensing applications	<b>Kristina Žužek Rožman</b> Jozef Stefan Institute, Slovenia
10:40-11:00	Session Break	
<b>Session: Advanced Nanomaterials and Devices in Nanomedicine and Nanobiotechnology Chair: Jean-Luc Wojkiewicz</b>		
11:00-11:25	A41: Titanium, GaSb and GaAs substrates in biomaterial coating application	<b>Rodica V.Ghita</b> National Institute of Materials Physics, Romania
11:25-11:50	A42: Theranostic multimodal nanoparticles with a combined magneto-photothermal effect for nanomedical applications	<b>Saso Sturm</b> Jozef Stefan Institute, Slovenia
12:00	Lunch Break	

**Thursday May 17**

**Room A**

**Session: Engineering and Nanotechnology for Solar, Thermal and Other Energy Applications I**

**Chair: Jihun Oh**

13:30 -13:55	A43: Design of tilted-multilayer power generation devices using the transverse thermoelectric effect	<b>Yuzuru Miyazaki</b> Tohoku University, Japan
13:55 -14:20	A44: Photo Thermal and electric Properties Prediction of Perovskite Solar Thermolectric Chips	<b>Che-Wun Hong</b> National Tsing Hua University, Taiwan
14:20-14:45	A45: Design of tailor-made nanocatalysts for energy applications with the aid of advanced characterization	<b>Spiros Zafeiratos</b> CNRS-ECPM-Université de Strasbourg, France
14:45-15:10	A46: Si and Rare earth ions based down-conversion layer for solar cell efficiency improvement	<b>Julien Cardin</b> CIMAP(Caen)-Ensicaen, France
15:10-15:35	Session Break	
<b>Session: Engineering and Nanotechnology for Solar, Thermal and Other Energy Applications II</b>		
<b>Chair: Che-Wun Hong</b>		
15:35-15:55	A47: High performance photoelectrochemical solar CO <sub>2</sub> conversion Si cells	<b>Jihun Oh</b> Korea Advanced Institute of Science and Technology, Korea
15:55-16:20	A48: Controlling the direct electron transfer in photosystem I-based graphene nanodevices	<b>Joanna Kargul</b> University of Warsaw, Poland
16:20-16:45	A49: Promoted photoelectrocatalytic hydrogen evolution of CdSe/Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanowire arrays via an Al <sub>2</sub> O <sub>3</sub> recombination barrier layer	<b>Yajun Wang</b> China University of Petroleum, Beijing, China
17:10-17:35	A50: Utilizing light energy via nanobionic photosystem I-hybrid architectures on graphene electrodes	<b>Sven C. Feifel</b> University of Applied Sciences Wildau, Germany
18:00	Dinner Social	

**Poster Session**  
**Wednesday May 16**  
15:10-15:40

**Poster Session**

P01	Graphene/Mo2C heterostructure directly grown by chemical vapor deposition	<b>Da JIANG</b> Shanghai Institute of Microsystem and Information Technology, CAS, China
P02	Highly Efficient UiO-66 Catalyst System toward High-performance Detoxification	<b>Kyung-Youl Baek</b> Korea Institute of Science and Technology, Korea
P03	Structural and biological characterization of antimicrobial layers obtained by magnetron sputtering technique	<b>Rodica V.Ghita</b> National Institute of Materials Physics, Romania
P04	Quantum Efficiency Enhancement of Organic Fluorescence BHTA in Polymer Matrix	<b>Wontae Kim</b> Korea Institute of Industrial Technology(KITECH), Korea
P05	Growth and Characterization of InSe/Ge/InSe interfaces	<b>Sabah.E. Alqarni</b> King AbdulAziz University, Saudi Arabia

**Friday May 18**  
**One-Day Excursion: Nature, Culture, and Collaboration**