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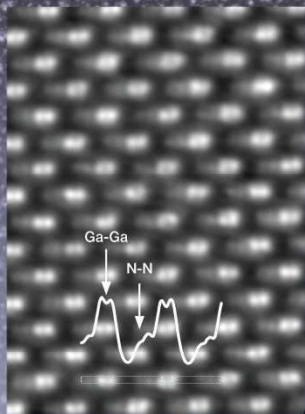


Centre Interdisciplinaire de  
Nanoscience de Marseille

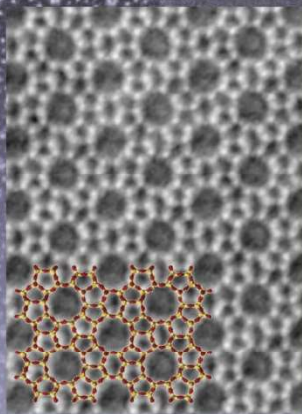


**Programme & Posters List**

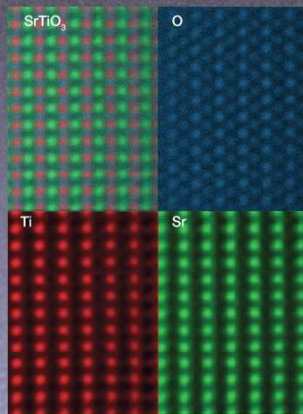
[www.tntconf.org/2018](http://www.tntconf.org/2018)



iDPC image showing simultaneous 63 pm splitting of Ga-Ga and N-N columns in GaN [211].



Atomic resolution image of ZSM-5 Zeolite showing the complicated arrangement of the Si (yellow) and O (red) atoms in the structure (1). 1. J. Su et al, *Microporous and Mesoporous Materials* 189 (2014) 115–125.



Atomic resolution EDS Mapping of [110] oriented  $\text{SrTiO}_3$  at 200kV using the Thermo Scientific Dual-X detector configuration.

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# TNT2018 index

|               |    |
|---------------|----|
| Foreword      | 04 |
| Committees    | 06 |
| Poster awards | 07 |
| Sponsors      | 07 |
| Exhibitors    | 08 |
| Programme     | 09 |
| Posters list  | 15 |



# TNT2018 Foreword

On behalf of the International and Technical Committees, we take great pleasure in welcoming you to Lecce (Italy) for the 19th “Trends in NanoTechnology” International Conference (TNT2018).

TNT2018 is being held in large part due to the overwhelming success of earlier TNT Nanotechnology Conferences.

This high-level scientific meeting series aims to present a broad range of current research in Nanoscience and Nanotechnology worldwide, as well as initiatives such as MANA/NIMS, Adolphe Merkle Institute, IBEC, TUDresden/cfaed or ICN2. TNT events have demonstrated that they are particularly effective in transmitting information and promoting interaction and new contacts among workers in this field. Furthermore, this event offers visitors, exhibitors and sponsors an ideal opportunity to interact with each other.

This year, a Graphene one-day Symposium will again be organized within TNT2018 in collaboration with ICN2 (Spain).

One of the main objectives of the Trends in Nanotechnology Conference is to provide a platform where young researchers can present their latest work and also interact with high-level

scientists. For this purpose, the Organizing Committee provides every year travel grants for students. In addition, awards will also be given to young PhD students for their contributions presented at TNT. Grants and awards are funded by the TNT Organization in collaboration with private bodies as well as several governmental and research institutions.

TNT is now one of the premier European conferences devoted to nanoscale science and technology.

We are indebted to the following Scientific Institutions, Companies and Government Agencies for their financial support: Phantoms Foundation, Provincia di Lecce, Istituto Italiano di Tecnologia (IIT)/Center for Biomolecular Nanotechnologies, Università del Salento, Regione Puglia, Città di Lecce, Scuola Superiore ISUFI and OptoSigma.

We would also like to thank the following companies and institutions for their participation: Concept Scientific Instruments (CSI), PlanarTech, Graphene Factory and scientaomicron.

In addition, thanks must be given to the staff of all the organizing institutions whose hard work has helped planning this conference.





# TNT2018 Organising Committee



Centre Interdisciplinaire de  
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**Joaquín Gaspar Ramon-Laca Maderal** (Phantoms Foundation, Spain)

**José Luis Roldán** (Phantoms Foundation, Spain)

# TNT2018 Poster awards

|   | Funded by            | Award                                    |
|---|----------------------|--|
|  | Phantoms Foundation  | Google Chromecast                        |
|  | Phantoms Foundation  | Google Chrome cast                       |
|  | TNT2018 Organisation | Free registration to the 2019 Conference |

# TNT2018 Sponsors



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**GRAPHENE FACTORY** is the CNR web portal born with the aim to show and promote the research on graphene and bi-dimensional materials performed within the CNR network. It also offers contents and information about "graphene" to the scientific community, to the media, to SMEs, Industry and general public.

The National Research Council (CNR) is the largest public Research Institution in Italy. CNR is strongly involved in the research activities on graphene and two-dimensional materials beyond graphene, both on the fundamental research, and on future applications and technological innovation. On a national basis, is the institution with the largest number of researcher involved on these topics and the largest scientific production.

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### Monday – September 03, 2018

|                        |  |   |
|------------------------|--|---|
| 14:00-14:45            | REGISTRATION   |   |
| 14:45-15:00            | <b>TNT2018 Opening Ceremony</b>  |   |
| <b>PLENARY SESSION</b> |  |   |
| 15:00-15:30            | <b>Michael Roukes</b> (Caltech, USA)<br>Integrated Neurophotonics: A new, all-optical paradigm for dense brain circuit interrogation at arbitrary depths                     | K |
| 15:30-16:00            | <b>Gianaurelio Cuniberti</b> (TU Dresden, Germany)<br>Sensing towards the quantum limit: The convergence of molecular detection and artificial perceptrons                   | K |
| 16:00-16:30            | <b>Dario Gerace</b> (University of Pavia, Italy)<br>Quantum simulators in hybrid nanocircuits  | I |
| 16:30-17:00            | <b>Coffee Break / Poster Session</b>   |   |
| 17:00-17:30            | <b>Anja Boisen</b> (DTU NANOTECH, Denmark)<br>Nanosensors for Life science applications  | K |
| 17:30-18:00            | <b>Mark Schwartzman</b> (Ben-Gurion University of the Negev, Israel)<br>Nanodevices for the Study of NK Cell Function  | K |
| 18:00-18:30            | <b>Danny Porath</b> (The Hebrew University of Jerusalem, Israel)<br>Surprising charge transport in DNA   | K |
| 18:30-18:45            | <b>Abid Ali Khan</b> (COMSATS Institute of Information Technology, Pakistan)<br>Nanostructured Carrier Platforms for the Encapsulation of Drugs and Natural Bioactive Agents | O |
| 19:15                  | <b>Welcome Cocktail and Concert at "Ex Monastero degli Olivetani"</b>  |   |



### Tuesday – September 04, 2018

|             |  |  |
|-------------|--|--|
| 09:00-09:30 | <b>Adrian Bachtold</b> (ICFO – The Institute of Photonic Sciences, Spain)<br>NanoMechanics: new insights into helium superfluidity and thermal transport in 2D | K  |
| 09:30-10:00 | <b>Nicola Pugno</b> (University of Trento, Italy)<br>Mechanics of 2D materials and related 3D composites   | K  |
| 10:00-10:30 | <b>Mads Brandbyge</b> (DTU Nanotech, Denmark)<br>Contacting graphene: First principles transport simulations   | K  |
| 10:30-11:30 | <b>Coffee Break / Poster Session</b>   |  |
| 11:30-12:00 | <b>Vittorio Morandi</b> (CNR-IMM, Italy)<br>Graphene Technology: synthesis, characterization and technological device  | K  |
| 12:00-12:30 | <b>Vladimir Falko</b> (National Graphene Institute, University of Manchester, UK)<br>Minibands for Dirac electrons in moiré superlattices                      | I  |
| 12:30-13:00 | <b>Peter Bøggild</b> (DTU Nanotech, Denmark)<br>Edge engineering in graphene devices   | K  |
| 13:00-14:30 | <b>Cocktail Lunch (offered by TNT2018 organisers) / Poster Session</b>   |  |
| 14:30-18:30 | <b>PARALLEL SESSION<br/>GRAPHENE TRACK A</b>   | <b>PARALLEL SESSION<br/>GRAPHENE TRACK B</b> |

K: Keynote / I: Invited / O: Oral





## Tuesday – September 04, 2018

### PARALLEL SESSION - GRAPHENE TRACK A

- » 14:30-15:00 **Marco Romagnoli** (CNIT, Italy)  
Graphene Phase Modulators for Optical Communications I
- » 15:00-15:30 **Choon-Gi Choi** (ETRI, Korea)  
Wearable Human Motion Detectable Sensors based on Graphene and 2D Material Composites I
- » 15:30-16:00 **Ilkwon Oh** (KAIST, Korea)  
Soft Actuators based on Graphene and 2D Materials I
- » 16:00-17:00 **Coffee Break / Poster Session**
- » 17:00-17:30 **Lucia Gemma Delogu** (Institute for Pediatric Research, Italy)  
Immune cells and graphene: interactions and potentiality I
- » 17:30-18:00 **Damien Voiry** (IEM/Université de Montpellier, France)  
Defect engineering and functionalization of 2D Transition Metal Dichalcogenides for Electrocatalysis and Molecular Sieving I
- » 18:00-18:15 **Nuria Alegret** (University of Colorado Denver Anschutz Medical Campus, USA)  
Development of Carbon Nanotubes-based Porous 3D Scaffolds for Tissue Regeneration O
- » 18:15-18:30 **Sorin Perisanu** (Universite Lyon 1, France)  
Giant increase in mechanical Q-factor of SWCNT induced by external voltage O

### PARALLEL SESSION - GRAPHENE TRACK B

- » 14:30-15:00 **Giuseppe Iannaccone** (University of Pisa, Italy)  
Transistors and memories based on 2D materials for integrated circuits dedicated to machine learning I
- » 15:00-15:30 **Antonio Agresti** (University of Rome Tor Vergata, Italy)  
2D materials and perovskite solar cells: toward a reliable and scalable PV technology I
- » 15:30-15:45 **Christophe Adessi** (ILM, Université Claude Bernard Lyon 1, France)  
DFT study of the thermal transport properties of MoS<sub>2</sub>: Application to thermoelectricity O
- » 15:45-16:00 **Stiven Forti** (Istituto Italiano di Tecnologia, Italy)  
Two-dimensional semiconducting Gold O
- » 16:00-17:00 **Coffee Break / Poster Session**
- » 17:00-17:30 **Saverio Russo** (University of Exeter, UK)  
Title to be defined I
- » 17:30-17:45 **Giuseppe Valerio Bianco** (CNR-NANOTEC, Italy)  
CVD Growth of WS<sub>2</sub> and MoS<sub>2</sub> Centimeter Scale Films O
- » 17:45-18:00 **Robertino Zanoni** (Universita degli studi di Roma "La Sapienza", Italy)  
Partially reduced graphene/silicon interfaces via electrochemical reduction O
- » 18:00-18:15 **Haibin Gao** (Saarland University, Germany)  
Hamaker constant of freestanding graphene from STM and AFM measurements O
- » 19:00 **Visit to the Museo Faggiano**



## Wednesday – September 05, 2018

- 
- › 09:00-09:30 **Roy Shenhar** (The Hebrew University of Jerusalem, Israel) K  
Nano-Patterned Polyelectrolyte Multilayers: A Non-Lithographic Approach
  - › 09:30-09:45 **Paola Prete** (CNR-IMM, Italy) O  
GaAs-AlGaAs nanowire quantum well tubes: self-assembly and nano-scale spectroscopic imaging
  - › 09:45-10:00 **Valentina Dichiarante** (Politecnico di Milano, Italy) O  
Fluorous Probes as Smart Imaging Tools
  - › 10:00-10:15 **Petra Granitzer** (University of Graz / Institute of Physics, Austria) O  
Photoluminescence of porous silicon tunable by magnetic metal deposition
  - › 10:15-10:30 **Klemens Rumpf** (University of Graz / Institute of Physics, Austria) O  
Arrays of exchange coupled magnetic nanostructures for permanent nanomagnets
  - › 10:30-10:45 **Yeon Soo Kim** (Ewha Womans University/Konkuk University, Korea) O  
Large magnetoresistance in oxygen deficient SrTiO<sub>3</sub>
  - › 10:45-11:00 **Shruti Verma** (Indian Institute of Technology Ropar, India) O  
Effect of Benzo perylene monoimide on opto-electronic properties of Cd-doped ZnO nanostructures

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› 11:00-11:30 **Coffee Break / Poster Session**

› 11:30-13:00 **Poster Session**

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› 13:00-14:30 **Lunch** (not included)

- 
- › 14:30-15:00 **Francesco Bonaccorso** (IIT-Graphene Labs / BeDimensional, Italy) K  
2D materials for energy
  - › 15:00-15:15 **Chun-Da Liao** (International Iberian Nanotechnology Laboratory, Portugal) O  
The Growth of Millimeter-Scaled Graphene Single Crystal through Nucleation Density Control in Height-Confined Reaction Slits
  - › 15:15-15:30 **Nicolas F. Martinez** (Concept Scientific Instruments, France) O  
Advanced nano-electrical characterization of solar cells and 2Dmaterials with AFM
  - › 15:30-15:45 **Eleni Anargirou** (scientaomicron, Germany) O  
Recent advancements in surface science instrumentation
  - › 15:45-16:00 **Jakub Opršal** (Synpo a.s., Czech Republic) O  
Nanofibrous membranes with antifouling properties
  - › 16:00-16:15 **Boris Kulnitskiy** (TISNCM, Russia) O  
Structural peculiarities of silicon after ball milling in the presence of different materials

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› 16:15-17:00 **Coffee Break / Poster Session**

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› 17:00-18:30 **PARALLEL SESSION** **PARALLEL SESSION**  
**PHD STUDENTS TRACK A** **PHD STUDENTS TRACK B**

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› 20:30 **Social Dinner - Torre del Parco Restaurant**  
1419 Torre del Parco srl Viale Torre del Parco, 1 - 73100 Lecce - Italy

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K: Keynote / I: Invited / O: Oral



## Wednesday – September 05, 2018

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### PARALLEL SESSION – PhD Students Track A Graphene, Nanofabrication & Nanophotonics

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- |               |   |   |
|---------------|---|---|
| » 17:00-17:15 | <b>Gaetano Calogero</b> (DTU Nanotech, Denmark)<br>Atomistic far-field currents in graphene - how to include DFT-precision regions in large-scale tight-binding | 0 |
| » 17:15-17:30 | <b>Anne Holsch</b> (Saarland University, Germany)<br>Scanning tunneling microscopy and spectroscopy of Au islands on top of graphene/Rh(111)                    | 0 |
| » 17:30-17:45 | <b>Luis Fernando Pantoja Suárez</b> (University of Barcelona, Spain)<br>Native oxide film reduction on stainless steel for direct growth of carbon nanotubes    | 0 |
| » 17:45-18:00 | <b>Salvatore Puce</b> (CBN@UniLe Lecce - Istituto Italiano di Tecnologia, Italy)<br>3D-microfabrication by 2PP sacrificial stencil mask                         | 0 |
| » 18:00-18:15 | <b>Paolo Ponzellini</b> (Italian Institute of Technology, Italy)<br>Plasmonic Zero Mode Waveguide for enhanced confined fluorescence emission                   | 0 |
| » 18:15-18:30 | <b>Azin Ziashahabi</b> (IIT, Italy)<br>Absorption band tuning and photocatalytic activity enhancement in hybrid plasmonic oxide Ag/ZnO nanostructures           | 0 |
- 

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### PARALLEL SESSION – PhD Students Track B NanoBiotechnology, Nanomagnetism, Nanomaterials, Theoy & Other

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- |               |  |   |
|---------------|--|---|
| » 17:00-17:15 | <b>Nazeeha Ayaz</b> (Politecnico di Milano, Italy)<br>Protein stabilized nanoformulation of a superfluorinated 19F-MRI contrast agent  | 0 |
| » 17:15-17:30 | <b>Giacomo Mandriota</b> (University of Salento, Italy)<br>Polydopamine-functionalized superparamagnetic clusters as theranostic system  | 0 |
| » 17:30-17:45 | <b>Elisa Scarpa</b> (Istituto Italiano di Tecnologia, Italy)<br>Wearable gravimetric sensor based on hydrogel for pH sweat levels monitoring at nL scale   | 0 |
| » 17:45-18:00 | <b>DaYea Oh</b> (Konkuk Univeristy, Korea)<br>Local chemical modification of MoS <sub>2</sub> layer using AFM lithography  | 0 |
| » 18:00-18:15 | <b>Lara Natta</b> (Istituto Italiano di Tecnologia, Italy)<br>Ultrathin flexible AlN-based smart patch for vascular graft monitoring   | 0 |
| » 18:15-18:30 | <b>Giulia Giannone</b> (University of Salento - Italian Institute of Technology, Italy)<br>Evidence for Strong Coupling Phenomena in Molecular Plasmonic Switches: a Density Functional Theory Study | 0 |
-



## Thursday – September 06, 2018

### PLENARY SESSION

|               |  |   |
|---------------|--|---|
| » 09:00-09:30 | <b>John Sipe</b> (University of Toronto, Canada)<br>The Nonlinear Optics of Graphene: Welcome to the Wild West!  | K |
| » 09:30-09:45 | <b>Stefano Palomba</b> (The University of Sydney, Australia)<br>SHG enhancement by TiN metasurfaces  | O |
| » 09:45-10:15 | <b>Marco Liscidini</b> (University of Pavia, Italy)<br>Guided Bloch long-range surface plasmon polaritons  | I |
| -----         |  |   |
| » 10:15-11:15 | <b>Coffee Break / Poster Session</b>   |   |
| -----         |  |   |
| » 11:15-11:45 | <b>Francesco De Angelis</b> (Istituto Italiano di Tecnologia, Italy)<br>3D plasmonic nanostructures for biology and medicine   | I |
| » 11:45-12:15 | <b>Paolo Biagioni</b> (Politecnico di Milano, Italy)<br>Germanium mid-infrared plasmonics for sensing  | I |
| » 12:15-12:30 | <b>Milena De Giorgi</b> (CNR-NANOTEC-Institute of Nanotechnology, Italy)<br>Interaction and coherence of a plasmon-exciton polariton condensate  | O |
| » 12:30-13:00 | <b>Stefano Corni</b> (University of Padova, Italy)<br>Characterizing plasmons at the nanoscale by first-principle simulations  | I |
| » 13:00-13:15 | <b>Muhammad Khalid</b> (Istituto Italiano di Tecnologia, Italy)<br>Nonlocal Optical Properties of Spherical Nanomatryoshkas  | O |
| -----         |  |   |
| » 13:15-14:45 | <b>Lunch</b> (not included)  |   |
| -----         |  |   |
| » 14:45-15:15 | <b>Andrea Ferrari</b> (University of Cambridge / CGC, UK)<br>Light Scattering and Emission from Layered Materials  | K |
| » 15:15-15:30 | <b>Wei Wu</b> (Wuhan University, China)<br>Printable Down-/Up-Conversion Fluorescence Inks for Anti-Counterfeiting Applications  | O |
| » 15:30-15:45 | <b>Tobias Vossmeier</b> (University of Hamburg, Germany)<br>Fabrication via Contact Printing: Chemical and Physical Sensors from Cross-Linked Nanoparticles                              | O |
| » 15:45-16:00 | <b>Dmitry Baranov</b> (Italian Institute of Technology, Italy)<br>Expanding Perovskite Toolbox via Self-Assembly of CsPbX <sub>3</sub> and Cs <sub>4</sub> PbX <sub>6</sub> Nanocrystals | O |
| » 16:00-16:30 | <b>Liberato Manna</b> (IIT, Italy)<br>Halide Perovskites Nanocrystals: Synthesis, Transformations and their Application in Devices   | K |
| -----         |  |   |
| » 16:30-17:00 | <b>Coffee Break / Poster Session</b>   |   |
| -----         |  |   |
| » 17:00-17:30 | <b>Amit Sitt</b> (Tel Aviv University, Israel)<br>Active Polymeric Fibers as Nanoreactors  | K |
| » 17:30-18:00 | <b>Lluís F. Marsal</b> (Universitat Rovira i Virgili, Spain)<br>Engineering of Nanoporous Anodic Alumina as a Versatile Platform for Biomedical Applications                             | K |
| » 18:00-18:30 | <b>Uri Raviv</b> (Hebrew University of Jerusalem, Israel)<br>Crystallization, reentrant melting, and resolubilization of virus nanoparticles   | K |
| » 18:30-18:45 | <b>Enrico Miceli</b> (Karlsruhe Institute of Technology, ITG, Germany)<br>Single-Enzyme Nanogels for High-Performance Nanobiocatalysis   | O |



## Friday – September 07, 2018

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### PLENARY SESSION

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- » 09:00-09:30 **Giuseppe Battaglia** (University College London, UK)  
Super-selective nanomedicines K
- » 09:30-10:00 **Teresa Pellegrino** (IIT, Italy)  
Magnetic Nanocrystals and magnetic hyperthermia to tackle cancer K
- » 10:00-10:15 **Chiara Ingrosso** (CNR-IPCF, Università degli Studi di Bari, Italy)  
Gold nanoparticles decorated Reduced Graphene Oxide electrodes for  
detection of a cancer biomarker candidate O
- » 10:15-10:30 **Preethi Bala Balakrishnan** (Istituto Italiano di Tecnologia, Italy)  
An In vivo Study on Cobalt Ferrite Nanoparticles as Multi-Modal Cancer  
Therapy Combining Intrinsic Toxicity and Hyperthermia O

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» 10:30-11:30 **Coffee Break / Poster Session**

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- » 11:30-11:45 **Barbara Spagnolo** (Istituto Italiano di Tecnologia @CBN, Italy)  
Implementation of 2pl 3d nanofeatured microscaffolds and optogenetics O
- » 11:45-12:00 **Giorgia Giovannini** (Istituto Italiano di Tecnologia, Italy)  
Novel MNPs-based isolation approach looking for "the needle in the haystack" O
- » 12:00-12:30 **Ferruccio Pisanello** (CBN-IIT, Italy)  
Multifunctional neural interfaces with micro- and nano-structured tapered  
optical fibers I
- » 12:30-13:00 **Annalisa Palange** (IIT, Italy)  
Soft polymeric nanoconstructs for vascular drug delivery and tissue depots I

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» 13:00 **Closing remarks**

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» 16:00 **Trip to Otranto**

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# Posters list: alphabetical order

Only Posters submitted by registered participants and payment processed are listed below  
(As of 24/08/2018)

| authors  | country        | topic   | poster title  | Student senior | Nº |
|--|----------------|---|---|----------------|----|
| <b>Amirmaleki, Maedeh</b><br>C. Cao, B. Wang, Y. Zhao, X. Sun, T. Filletier  | Canada         | Nanomaterials for Energy                        | Study of the Mechanical Behaviour of Thin Film Solid Electrolytes Using AFM   | Student        | 19 |
| <b>Azevedo, Cristiano</b><br>C. Silva, R. Ataíde, T. Vieira  | Portugal       | Graphene & 2D materials                         | Production of carbon-based materials; from graphite eletrodes (waste), for applications in Mechanical Engineering         | Senior         | 1  |
| <b>Cho, A Lam</b><br>M. M. Haidari, J. H. Kim, J. S. Choi  | Korea          | Graphene & 2D materials                         | The study of making a hexagonal single-crystal graphene island used CVD method on copper foil                             | Student        | 2  |
| <b>Choi, Won San</b><br>Byung Kwon Kaang   | Korea          | Nanostructured and nanoparticle based materials | Catalytic activity and stability-enhanced polyelectrolyte brush-grafted catalysts   | Senior         | 22 |
| <b>Della Rosa, Giulia</b><br>A. Aloisi, R. Di Corato, R. Rinaldi   | Italy          | Nanostructured and nanoparticle based materials | One-pot synthesis of silica-based nanostructures  | Student        | 23 |
| <b>Escolar Ulibarri, Janire</b><br>N.Peimyoop, J.D. Miehew, M.D. Barnes, A.D.Saictis, I.Amit, K.Anastasiou, A.P.Rooney, A.Gholinia, S.J. Haigh, S.Russo, M.F.Cracliu, F. Whitters. | United Kingdom | Other   | An atomically thin and high-K multi-functional oxide for electronic and opto-electronic devices                           | Student        | 29 |
| <b>Guido, Clara</b><br>S. D'Amone, B. Cortese, G. Gigli, I.E. Palamà   | Italy          | Nanobiotechnologies and Nanomedicine            | Stimuli Responsive PGA Nanoparticles as safe agents for non viral gene delivery   | Student        | 15 |
| <b>Hartmann, Hauke</b><br>H. Schlicke, M. Yesilmen, T. Vossmeier   | Germany        | Nanostructured and nanoparticle based materials | Membrane Resonators Consisting of Cross-Linked Gold Nanoparticles: Influence of Geometry on Vapor Sensing Characteristics | Student        | 24 |
| <b>Inguanta, Rossalinda</b><br>M. Insinga, R.L. Oliveri, C. Sunseri  | Italy          | Nanomaterials for Energy                        | Ultrafast lead-acid battery with nanostructured Pb and PbO <sub>2</sub> electrodes  | Senior         | 20 |
| <b>Jafari, Mahmood</b><br>Alvani Khadije; Jafari Reza  | Iran           | Low dimensional materials                       | Electronic properties of chrome-doped Zinc sulphide nanosheet   | Senior         | 12 |
| <b>Jung, Wonsuk</b><br>Jungyeong Chae, Chanyong Shul, Jiyun Kang   | Korea          | Graphene & 2D materials                         | A Novel Fabrication of 3.6 nm High Graphene Nanochannels for Ultrafast Ion Transport                                      | Senior         | 3  |

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|---|----------------|---|--|---------|-----------|
| <b>Knotek, Petr</b><br>T. Plecháčková, P. Kutálek, J. Navrátil, Č. Drašar   | Czech Republic | Low dimensional materials                       | Probing the nano-scale Schottky barrier of metal/ semiconductor interfaces of Au (or Mo)/Bi <sub>2</sub> Se <sub>3</sub> by KPFM                           | Senior  | <b>13</b> |
| <b>Lacconi, Gabriela</b><br>L.A. Pérez, M.J. Gómez, F. Floravanti, A. Loiacono, N. Bajales, E. Franceschini   | Argentina      | Nanostructured and nanoparticle based materials | NPs-Graphene hybrids dispersion by electrochemical methods   | Senior  | <b>25</b> |
| <b>Lee, Ha-Jin</b><br>H. Lee, K. H. Park, J. S. Kim, M. Mubarak   | Korea          | Graphene & 2D materials                         | Measurement protocol for electrical characteristics of powder-type graphene materials  | Senior  | <b>4</b>  |
| <b>Lee, Mi Jung</b><br>S. Lee, S. Lee, K. Balamunagan, C. Yoon, J. T. Jang, S.-H. Kim, D.-H. Kwon, M. Kim, J.-P. Ahn, D. H. Kim, J.-G. Park, B. H. Park | Korea          | Graphene & 2D materials                         | The study of 2D van der Waals material based synaptic device   | Student | <b>5</b>  |
| <b>Marchetti, Simone</b><br>M. Pesavento, N. Cennamo, L. Zeni   | Italy          | Nanostructured and nanoparticle based materials | Molecularly imprinted polymer as molecularly structured receptor for chemosensors based on SPR and SWS on plastic optical fiber for industrial application | Student | <b>26</b> |
| <b>Marchetti, Simone</b><br>M. Pesavento, R. Blesuz, G. Alberti, D. Merli, A. Vercesi   | Italy          | Nanostructured and nanoparticle based materials | A molecularly structured receptor (MIP) for a chemosensor for furfural with electrochemical transduction   | Student | <b>27</b> |
| <b>Mariello, Massimo</b><br>F. Guido, V. Mastronardi, F. De Donato, M. Salbini, F. Rizzi, M. De Vittorio  | Italy          | Nanostructured and nanoparticle based materials | Captive-air-bubble aerophobicity measurements of antibiofouling coatings for underwater MEMS devices   | Student | <b>28</b> |
| <b>Martí González, Joan</b><br>F. Pantoja, A. Muehghyan-Avetisyan, I. Alshalkh, R. Amade, J.L. Andujar, E. Pascual, E. Bertran-Serra                    | Spain          | Graphene & 2D materials                         | Synthesis and characterization of graphene nanowalls/carbon nanotubes hybrid nanostructures  | Student | <b>6</b>  |
| <b>Martínez, Nicolás F.</b><br>L. Pacheco   | France         | Graphene & 2D materials                         | Advanced nano-electrical characterization of solar cells and 2-d materials with AFM  | Senior  | <b>7</b>  |
| <b>Pisano, Filippo</b><br>L. Sileo, R. Peixoto, M. Pisanello, B. L. Sabatini, M. De Vittorio, F. Pisanello  | Italy          | Nanobiotechnologies and Nanomedicine            | Nanofabrication of extra-cellular recording electrodes for neuroscience on tapered optical fibers  | Senior  | <b>16</b> |
| <b>Prete, Paola</b><br>N. Lovregine   | Italy          | Graphene & 2D materials                         | The MBE Laboratory for van der Waals epitaxy of 2D layered heterostructures at IMM-CNR Lecce   | Senior  | <b>8</b>  |
| <b>Rizzello, Loris</b><br>A. Poma, G. Battaglia   | United Kingdom | Nanobiotechnologies and Nanomedicine            | Targeting mononuclear phagocytes for eradicating intracellular parasites   | Senior  | <b>17</b> |
| <b>Scarpa, Edoardo</b><br>S. Nøberg, X. Tian, L. Rizzello, A. Poma, M.R. Vayuryu, L. Kirschneck, A. Šarić, G. Battaglia                                 | United Kingdom | Nanobiotechnologies and Nanomedicine            | Controlling cellular trafficking by nanoparticle avidity: from endocytosis to transcytosis   | Senior  | <b>18</b> |
| <b>Shin, Minjung</b><br>J. Jeon, S. Lee, C. Yoon, Y. Kim, M. Lee, B. Park   | Korea          | Graphene & 2D materials                         | The Properties of 2D Materials on Functional Oxides  | Student | <b>9</b>  |

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|---|-------|---|--|---------|-----------|
| <b>Stomeo, Tiziana</b><br>M. Grande, G.V. Bianco, A. Casolino, F. Guido, A. Quattieri, M. A. Vincenti, D. de Ceglia, N. Aközbeek, V. Petruzzelli, M. De Vittorio, M. Scalora, G. Bruno, A. D'Orazio | Italy | NanoOptics/NanoPhotonics/<br>Plasmonics/Nanophononics | Graphene-based absorbers exploiting guided mode resonances in nano-imprinted dielectric pillars  | Senior  | <b>21</b> |
| <b>Urso, Vittoria</b><br>F. Della Sala, E. Fabiano  | Italy | Theory and modelling at the nanoscale                 | Investigation of Kinetic Functionals applied to metal nanoparticles  | Student | <b>30</b> |
| <b>Viamidis, Ylea</b><br>N. Mishra, G. Signore, L. Bellucci, V. Tozzini, C. Coletti, V. Vollani, M. Gemmi   | Italy | Graphene & 2D materials                               | Functionalization of CVD-graphene controlled by QCN for the development of biosensing platforms  | Senior  | <b>10</b> |
| <b>Woo, Yewon</b><br>S. Lee, S. Minjung, B. H. Park   | Korea | Graphene & 2D materials                               | Charge Trap Memory Devices of Balanced Ambipolar 2H-MoTe <sub>2</sub> Field Effect Transistors   | Student | <b>11</b> |
| <b>Yoon, Chansoo</b><br>J. H. Lee, S. Lee, J. Jeon, J. T. Jang, D. H. Kim, Y. H. Kim, B. H. Park  | Korea | Low dimensional materials                             | Synaptic Plasticity Selectively Activated by Polarization-Dependent Energy-Efficient Ion Migration in an Ultrathin Ferroelectric Tunnel Junction | Student | <b>14</b> |

## Posters Schedule:

Posters should be displayed on **Monday September 03, 2018** (before the afternoon coffee break) and should be removed **Friday September 07, 2018** (after the morning coffee break)

## NOTES

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**Edited By**



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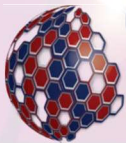


## 2018-2019 Events

October 22-25, 2018  
Guilin (China)



**RPGR** 2018  
GUILIN



**GRAPHENE**  
**MALAYSIA**  
**2018**



October 29-30, 2018  
Kuala Lumpur (Malaysia)

November 20-22, 2018  
Barcelona (Spain)



nano  
**bio & med** 2018



**1 & 2DM**

CONFERENCE & EXHIBITION



January 29-30, 2019  
Tokyo (Japan)

June 25-28, 2019  
Rome (Italy)



**Graphene**  
2019