

**WEDNESDAY
NOVEMBER 20, 2019**

10:00 – 10:30 **Opening ceremony & welcome address**
Salvatore Cuzzocrea (Rector of the University of Messina)
Ivo Blandina (President of “Camera di Commercio”)
Fortunato Neri (Director of MIFT department)
Chairs greetings

Session I

10:30 – 11:10	<u>Mohammad Khaja Nazeeruddin</u> (EPFL Valais, Switzerland)
11:10 – 11:50	<u>Aldo Di Carlo</u> (CHOSE, University of Rome Tor Vergata, Italy) “Two-dimensional interface engineering in perovskite solar cells: from Graphene to MXenes”
11:50 – 12:05	<u>Sebastiano Bellani</u> (Istituito Italiano di Tecnologia, Genova, Italy) “Large scale production of 2D materials for energy applications”
12:05 – 12:20	<u>Valentino Romano</u> (University of Messina, Italy) “Graphene-based electrodes for high areal-performance supercapacitors”

12:20 – 13:45 **Lunch on conference site**

13:45 – 14:25	<u>Cosimo Gerardi</u> (Enel Green Power, Catania, Italy) “Innovative technologies to reduce the cost of the photovoltaic electricity”
14:25 – 14:40	<u>Salvatore Sanzaro</u> (CNR-IMM, Catania, Italy) “Bimodal porosity and stability of a TiO ₂ gig-lox sponde infiltrated with MAPbI ₃ for perovskite solar cells”
14:40 – 15:20	<u>Annamaria Petrozza</u> (Istituto Italiano di Tecnologia, Milano, Italy) “Understanding defect physics to stabilize metal-halide perovskite semiconductors for optoelectronic applications”
15:20 – 16:00	<u>Lorenzo Malavasi</u> (Università degli studi di Pavia, Italy) “Exploring Pb-free active materials for perovskite solar cells”

16:00 – 16:30 **Coffee break**

Session II

16:30 – 17:10	<u>Gabriele Centi</u> (Università degli studi di Messina, Italy) “Development and performances of thin nanostructured photoactive films for photoelectrocatalytic devices”
17:10 – 17:50	<u>Ajay Kandada</u> (GeorgiaTech, Atlanta, United States of America) “Spectral signatures of exciton-polarons in two-dimensional hybrid lead halide perovskites”

**THURSDAY
NOVEMBER 21, 2019**

Session I							
09:00 – 09:40	<u>João Coelho</u> (Trinity College, Dublin, Ireland) “High performance supercapacitor and lithium-ion battery electrodes based on nano-materials composites processed in liquid phase”						
09:40 – 09:55	<u>Emanuele Smecca</u> (CNR-IMM, Catania, Italy) “Hybrid perovskites for photovoltaics: challenges and opportunities”						
09:55 – 10:10	<u>Giuliana Giuliano</u> (University of Palermo, Italy) “Semitransparent Design of Planar n-i-p Perovskite Solar Cells using a Cost-Effective, Perovskite-Compatible DMD Structure as the Top Electrode”						
10:10 – 10:50	<u>Cecilia Mattevi</u> (Imperial College, London, United Kingdom) “3D printed micro-supercapacitors from 2D material inks”						
10:50 – 14:00	Coffe break, visit to the cathedral and lunch						
Session II							
14:00 – 14:40	<u>Stephan Roche</u> (ICREA and ICN2, Barcelona, Spain) “Energy-saving related IC technologies by manipulating charge, spin and thermal transport using Van der Waals heterostructures”						
14:40 – 15:20	<u>Giulio Cerullo</u> (Politecnico di Milano, Italy) “Ultrafast carrier and spin dynamics of two-dimensional semiconductors”						
15:20 – 16:00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>SPONSORS PRESENTATIONS</u></td> <td style="text-align: center;">OSA/YM (Mariangela Ruggeri)</td> </tr> <tr> <td></td> <td style="text-align: center;">GreatCellSolar (Dr. Luca Sorbello)</td> </tr> <tr> <td></td> <td style="text-align: center;">Bruker (Dr. Diego Sali)</td> </tr> </table>	<u>SPONSORS PRESENTATIONS</u>	OSA/YM (Mariangela Ruggeri)		GreatCellSolar (Dr. Luca Sorbello)		Bruker (Dr. Diego Sali)
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16:00 – 16:30	Coffee break						
Session III							
16:30 – 17:10	<u>Michele Saba</u> (Università degli studi di Cagliari, Italy) “Photophysics of halide perovskites and devices”						
17:10 – 17:50	<u>Giuseppe Calogero</u> (CNR, Messina, Italy) “The renaissance of natural dye-sensitized solar cells based on vegetables pigments: a journey through nanotechnology, science, nature and art”						
20:00 – 23:00	Conference Dinner						

FRIDAY
NOVEMBER 22, 2019

Young Researchers' Session

09:00 – 09:30	<u>Francesca Brunetti</u> (CHOSE, University of Roma Tor Vergata, Italy) “Flexible photovoltaic solar cells and energy storage devices: possibilities and challenges”
09:30 – 10:00	<u>Andrea Listorti</u> (Istituto di Nanotecnologia/Università del Salento, Lecce, Italy) “Functional additives for halide perovskites tailored deposition for highly efficient light-emitting and photovoltaic devices”
10:00 – 10:30	<u>Tanja Ivanovska</u> (Saule Technologies, Warsaw, Poland) “Inkjet printed perovskite photovoltaics: from process development to materials optimisation”
10:30 – 11:00	<u>Giovanni Finocchio</u> (Università degli studi di Messina, Italy) “Microwave and THz detectors based on spintronic devices”
11:00 – 11:30	Coffee break
11:30 – 12:00	<u>Antonio Agresti</u> (CHOSE, University of Roma Tor Vergata, Italy) “Two-dimensional materials in charge collecting electrodes for efficient and stable perovskite solar cells”
12:00 – 12:30	<u>Claudio Quarti</u> (Université of Mons, Belgium) “Unparalleled chemical flexibility & unpredictable optoelectronic response of layered 2D perovskites: a rationale from atomistic modelling”
12:30 – 13:00	Concluding remarks