

# 1<sup>st</sup> meeting Excellence Network

30 jun  
2021



materiales  
orgánicos  
disruptivos  
para energía  
fotovoltaica

## PROGRAMME:

Link for the meeting: <https://nanoscience-imdea.zoom.us/j/95223576864>

- 09:00-09:10 Nazario Martín (Universidad Complutense de Madrid, IMDEA Nanociencia)**  
Opening remarks
- 09:10-09:30 Giovanni Bottari (Universidad Autónoma de Madrid, IMDEA Nanociencia)**  
Tetracyanobuta-1,3-diene and cyclopenta[hi]aceanthrylene: Two interesting moieties for optoelectronics
- 09:30-09:50 Silvia Collavini (Polymat)**  
Organic polymers in perovskite solar cells
- 09:50-10:10 Sergio Moles Quintero (Universidad de Málaga)**  
Ground state diradicals: Understanding their electronic properties towards photonics
- 10:10-10:30 Paula Gómez Pascual (Universidad de Murcia)**  
Self-assembled small molecule as multifunctional dopant-free hole transporting material in p-i-n and n-i-p perovskite solar cells
- 10:30-10:50 Sonia Raga (ICN2)**  
Reversible spiro-OMeTAD photodoping in perovskite solar cells
- Mónica Lira (ICN2)**  
Effect of shallow point defects in the stability of perovskite solar cells
- 10:50-11:10 Anton Stasyuk (Universidad de Girona)**  
Electron transfer in non-covalent fullerene-carbon-nanoring complexes
- 11:10-11:25 Open discussion (moderated by Prof. Nazario Martín)**
- 11:25-11:40 Coffee break**



Conference room  
c/ Faraday, 9  
Campus de Cantoblanco  
28049 Madrid (Spain)

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- 11:40-12:00 Enrique Ortí (Universidad de Valencia)**  
Theoretical approach to materials for perovskite solar cells
- 12:00-12:20 Fernando García Guijarro (Universidad de Castilla-La Mancha)**  
Molecular design of new small molecule donors for OSCs
- María Privado Urda (Universidad de Castilla-La Mancha)**  
DPP-based non-fullerene acceptors for OSCs
- 12:20-12:40 Jose Sánchez (ICIQ)**  
Increasing the  $V_{oc}$  in organic-based solar cells
- Ece Aktas (ICIQ)**  
Self-assembled hole selective small molecules for highly efficient and stable perovskite devices
- 12:40-13:00 Javier Urieta-Mora (Universidad Complutense de Madrid, IMDEA Nanociencia)**  
Improving the long-term stability of doped spiro-type hole-transporting materials in perovskite solar cells
- Inés García Benito (Universidad Complutense de Madrid, IMDEA Nanociencia)**  
Exploring new organic spacers in layered 2D perovskite. Dynamical evolution of the 2D/3D interface
- 13:00-13:20 Claire Tonnelé (Ikerbasque, DIPC - Donostia International Physics Center)**  
Chemical tuning of supramolecular excited states in a thiophene cage geometry
- 13:20-13:40 Guillermo Martínez-Denegri Sánchez (ICFO - Institut de Ciències Fotòniques)**  
A half-cylinder photonic plate incorporating perovskite solar cells to achieve energy efficient polarized light emission
- 13:40-14:00 Laura Calìò (CSIC)**  
Light harvesting properties of a subphthalocyanine solar absorber coupled to an optical cavity
- 14:00-14:20 Kassio Zanoni (ICMol, Universidad de Valencia)**  
Recent progress in vacuum processed perovskite solar cells
- 14:20-14:35 Open discussion (moderated by Dr. Agustín Molina)**
- 14:35-14:40 Closing Remarks**



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