Discussion Meeting 2020
Progress in
Organic Optoelectronics and Energy Conversion

Coordinators:
Dr. Johannes Gierschner
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The Organization Team:
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Thursday, 17.12.2020
Session 1 Chair: M. Carmen Ruiz Delgado
9:00-9:20 Welcome & Introduction
Johannes Gierschner, Begoña Milián Medina
09:20-09:40 Johannes Gierschner (IMDEA)
Charge Transfer States in Optoelectronics and Energy Conversion
9:40-9:50 Lucía Velasco (IMDEA)
Structure and Excited-State Dynamics of Dimeric Copper(I) photosensitizers Investigated by Time-resolved X-ray and Optical Transient Absorption Spectroscopy [shot]
9:50-10:10 Emilio M. Pérez (IMDEA)
Encapsulation of Active Molecules in SWNTs for Organic Electronics and Spintronics
10:10-10:30 Javier Carmona García (University of Valencia)
On the Computation of Photolysis Rates with Multiconfigurational Quantum Chemistry
10:30-10:50 Miriam Navarrete Miguel (University of Valencia)
Inverting the Paternó-Büchi Reaction by UV and Photo-oxidation/reduction
10:50-11:30 Virtual Coffee Break

Session 2 Chair: Juan Aragó
11:30-11:50 Juan Cabanillas González (IMDEA)
Effect of Phenyl-fluorene Backbone Intercalation in the Stimulated Emission Properties of Fluorene-based Polymer Blends
11:50-12:10 Chen Sun (Lund University)
Influence of β-Phase Content on Photophysics and Light Amplifying Properties of Polydiarylfluorene
12:10-12:30 Jorge González Sierra (IMDEA)
Conjugated Polymer Based Microcavities for Lasing and Sensing
12:30-12:50 Raquel Rubert Albíol (University of Valencia)
Ab Initio Modelling of Dicyanomethylene-Based π-Conjugated Compounds with Diradical Character
12:50-13:10 Azahara Doncel Giménez (University of Valencia)
Structure-mechanism Relationship in N-annulated Perylene Bisimides
13:10-13:30 Ricardo Ortiz (University of Alicante)
Frustrated Magnetism in a Cyclacene Crystal

Friday, 18.12.2020
Session 3 Chair: Johannes Gierschner
9:00-9:20 Understanding Charge Transport Mechanisms of Ladder-type Heteroarenes in OFETs
Alexandra Harbuzaru (University of Málaga)
9:20-9:40 Irene Badía-Domínguez (University of Málaga)
Controlling the Extent of Diradical Character in Indolocarbazole Isomers
9:40-10:00 Sergio Gámez-Valenzuela (University of Málaga)
In silico Design of Truxene-based 2D Polymers
10:00-10:10 Sara Fernández-Palacios (University of Málaga)
Evaluating the Role of Intramolecular Interactions in Piezochromic Materials by Raman Spectroscopy [shot]
10:10-10:30 Juan Carlos Roldao (IMDEA)
Excited state absorption of π-conjugated compounds: How reliable is the “single excitation” model?
10:30-10:50 Liangxuan Wang (IMDEA)
Stereochemistry & Direct Observation of Tautomerization of Single Hypericin Molecules
10:50-11:10 Conclusion
Johannes Gierschner