

PROGRAM 6JIF



Jornadas Ibéricas de Fotoquímica

11- 14 DE SETEMBRO, 2018 Aveiro

<http://6jif.eventos.chemistry.pt/>

Grupo de Fotoquímica da Sociedade Portuguesa de Química
Grupo Especializado de Fotoquímica de la Real Sociedad Española de Química
Universidade de Aveiro/Universidade de Coimbra

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PROGRAM

Tuesday September 11, 2018

09:00 – 17:00 h SALA DE ACTOS ACADÉMICOS – RECTORY BUILDING

Chairs: Sérgio Seixas de Melo and Rute Ferreira

Training School on the basics of Photochemical, Photophysical and Photobiological Processes

<http://academia.web.ua.pt/extraSCIRP/espacos/?t=1&id=10>

09:00 – 10:30 h

Manuel Prieto

Centro Química-Física Molecular, IST, Universidade de Lisboa, Portugal

"Principles of Fluorescence and Energy Transfer (FRET) Methodologies"

COFFEE BREAK

10:30 – 10:45 h HALL OF RECTORY BUILDING

10:45 – 12:15 h

Luis Manuel Frutos Gaité

Unidad Docente de Química Física, Universidad de Alcalá, Madrid, Spain

"Theoretical Photochemistry"

LUNCH

12:15 – 13:30 h UNIVERSITY'S RESTARANT

13:35 – 15:00 h

José Manuel Gaspar Martinho

Centro de Química-Física Molecular, IST, Universidade de Lisboa, Portugal

"Two-photon absorption, imaging and sensing"

15:00 – 16:30 h

Wajih Al-Soufi

Universidad de Santiago de Compostela, Spain

"Supramolecular association studied by fluorescence spectroscopy"

(emphasis on Single Molecule Fluorescence and Fluorescence Correlation Spectroscopy)

16:30 – 17:00 h INTERACTION WITH STUDENTS

18:00 – 19:00 h HALL OF RECTORY BUILDING

REGISTRATION

19:00 h RECEPTION

SANTA JOANA MUSEUM

Wednesday September 12, 2018

09:00 – 18:30 h SALA DE ACTOS ACADÉMICOS – RECTORY BUILDING

<http://academia.web.ua.pt/extraSCRIP/espacos/?t=1&id=10>

08:00 – 18:00 h HALL OF RECTORY BUILDING

REGISTRATION

08:40 – 09:00 h SALA DE ACTOS ACADÉMICOS – RECTORY BUILDING

Opening ceremony, welcome addresses by Prof. Luís Carlos, Prof. Artur Silva, Vice-rector University of Aveiro and President of the SPQ and Prof. Sérgio Seixas de Melo

SESSION I Chair: Luís Manuel Frutos Gaité

09:00 – 10:00 h PLENARY LECTURE

Mario Nuno Berberan e Santos

Centro de Química-Física Molecular, IST, Universidade de Lisboa, Portugal

“Developments in thermally activated delayed fluorescence”

10:00 – 10:30 h KEYNOTE LECTURE

Juan Casado Cordón

Department of Physical Chemistry, Universidad de Malaga, Spain

“Diradicals: Structure and spectroscopy”

COFFEE BREAK AND POSTER SESSION

10:30 – 11:00 h SENADO ROOM – RECTORY BUILDING

SESSION II Chairs: Sérgio Seixas de Melo and Rachel Evans

11:00 – 11:20 h INVITED LECTURE

Julia Pérez Prieto

Instituto de Ciencia Molecular, Universidad de Valencia, Spain

“Exceptional optical features of lead halide perovskites”

11:20 – 11:35 h ORAL COMMUNICATION

A. J. Moro, L. Rodriguez, J. C. Lima*“Naphthyridine-based Gold(I) complexes: new tools for nucleotide sensing using aggregation induced emission”*

11:35 – 11:50 h ORAL COMMUNICATION

B. Casteleiro, T. Ribeiro, J. M. G. Martinho, J. P.S. Farinha*“Hybrid gold nanoclusters-polymer nanoparticles as fluorescent probes”*

11:50 – 12:05 h ORAL COMMUNICATION

P. M. R. Paulo, S. M. B. Costa, D. Botequim, R. Oliveira-Silva, D. M. F. Prazeres, A. P. Francisco, C. A. T. Laia, J. P. Conde*“Anisotropic gold nanoantennas for enhancing fluorescence detection: From single to dimer nanoparticles”*

12:05 – 12:20 h ORAL COMMUNICATION

G. Orellana, A. B. Descalzo, J. Q. Albuquerque*“Sensing 1,3-dicarbonyl toxins with luminescent ruthenium(II)-polypyridyl complexes”*

12:20 – 12:35 h ORAL COMMUNICATION

Biju Francis, Mariela M. Nolasco, Paula Brandão, Rute A. S. Ferreira, Luís D. Carlos*“Eu³⁺-complex-based hybrid materials for luminescent solar concentrators”*

	LUNCH
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12:45 – 14:00 h	UNIVERSITY'S RESTAURANT
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SESSION III	<i>Chairs:</i> Hugh Burrows and Juan Casado Cordón
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14:00 – 15:00 h	PLENARY LECTURE
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Rachel Evans

Department of Materials Science & Metallurgy, University of Cambridge, UK

"Spectral conversion materials to harvest sunlight in the urban landscape"

15:00 – 15:30 h	KEYNOTE LECTURE
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José Paulo Farinha

Departamento de Engenharia Química, IST, Universidade de Lisboa, Portugal

"Bright and stable nanomaterials for imaging and diagnostics"

15:30 – 15:50 h	INVITED LECTURE
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Francisco Galindo

Departamento de Química Inorgánica y Orgánica, Universitat Jaume I de Castellón, Spain

"Photoactive nanoclusters embedded in self-assembled fibrillar networks"

15:50 – 16:10 h	INVITED LECTURE
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Carlos Serpa

Departamento de Engenharia Química, Universidade de Coimbra, Portugal

"Piezophotonics"

16:10 – 16:25h	ORAL COMMUNICATION
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I. F. A. Mariz, E. M. S. Maçôas, J. M. G. Martinho, C. Santos, C. Correia*"On the origin of the emission of carbon nanodots: molecule-like fluorophores vs nanographene-like clusters"*

	COFFEE BREAK AND POSTER SESSION
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16:30 – 17:30 h	SENADO ROOM – RECTORY BUILDING
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SESSION IV	<i>Chair:</i> Manuel Prieto
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17:30 – 17:50 h	INVITED LECTURE
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João Carlos Lima

Departamento de Química, Universidade Nova de Lisboa, Portugal

"Gold(I) complexes self-assembly, luminescence and applications"

17:50 – 18:10 h	INVITED LECTURE
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Mario Gutierrez Tovar

Universidad de Castilla La Mancha, Spain

"Luminescent Zr-Based MOFs: From Fundamental to LED application"

18:10 – 18:30 h	INVITED LECTURE
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Joaquim Faria

Departamento de Engenharia Química, Universidade do Porto, Portugal

"Shining new light on ancient formulations: preparation and photoproperties of graphitic carbon nitrides"

18:30 – 19:30 h	GRUFO-RSEQ/GFQ-SPQ Meeting
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Thursday September 13, 2018

09:00 – 18:10 h SALA DE ACTOS ACADÉMICOS – RECTORY BUILDING

<http://academia.web.ua.pt/extraSCIRP/espacos/?t=1&id=10>

SESSION V Chair: Gaspar Martinho

09:00 – 10:00 h PLENARY LECTURE

Juan Penedo-Esteiro

Laboratory for Biophysics and Biomolecular Dynamics, University of St. Andrews, UK

“Single-molecule photophysics of conjugated polymers in solution”

10:00 – 10:30 h KEYNOTE LECTURE

António Jorge Dias Parola

Departamento de Química, Universidade Nova de Lisboa, Portugal

“Photochromic supramolecular host-guest systems”

COFFEE BREAK AND POSTER SESSION

10:30 – 11:00 h SENADO ROOM – RECTORY BUILDING

SESSION VI Chairs: Juan Penedo-Esteiro and José Paulo Farinha

11:00 – 11:20 h INVITED LECTURE

Carlos Baleizão

Centro de Química-Física Molecular, IST, Universidade de Lisboa, Portugal

“Perylenediimides as building blocks for functional nanomaterials”

11:20 – 11:35 h ORAL COMMUNICATION

M. L. Renart, A. Coutinho, J. A. Poveda, M. Giudici, A. Fedorov, M. Berberan-Santos, J. Gonzalez-Ros, M. Prieto

“The membrane potassium channel KcsA - Exact analytical solutions for advanced homo-FRET to retrieve structural information”

11:35 – 11:50 h ORAL COMMUNICATION

C. M. Nunes, I. Reva, R. Fausto

“Photochemistry of aryl nitrenes: Doorway to elusive intermediates and tunnelling reactions”

11:50 – 12:05 h ORAL COMMUNICATION

A. M. Melo, J. Coraor, G. Alpha-Cobb, S. Elbaum-Garfinkle, E. Rhoades

“Determining a topological model for tau bound to tubulin heterodimers by SMFRET: Insights into its function/dysfunction”

12:05 – 12:20 h ORAL COMMUNICATION

Diego Sampedro

“Photoprotection: insights from theory and experiment”

12:20 – 12:35 h ORAL COMMUNICATION

C. S. H. Jesus, C. Serpa, R. Quintã, H. T. Soares

“Autofluorescence of protein aggregates enable in-vitro screening of anti-amyloid drugs”

LUNCH

12:45 – 14:00 h UNIVERSITY'S RESTAURANT

SESSION VII Chairs: Mario Nuno Berberan e Santos and Julia Pérez Prieto

14:00 – 14:30 h KEYNOTE LECTURE

Virginia Martínez Martínez

Departamento de Química Física, Universidad del País Vasco, Spain

“Fluorescent dyes into 1D-zeolitic materials for optical applications”

14:30 – 15:00 h KEYNOTE LECTURE

Carlos Lodeiro Espiño

Departamento de Química, Universidade Nova de Lisboa, Portugal

“Chalcogenide chemistry applied in the synthesis of noble nanomaterials: the role of light and water”

15:00 – 15:20 h INVITED LECTURE

Elisabete M. S. Castanheira

Departamento de Física, Universidade do Minho, Portugal

“Magnetoliposomes as nanocarriers for fluorescent potential antitumor drugs”

15:20 – 15:35 h ORAL COMMUNICATION

A. Orte, J. A. González-Vera, F. J. Fueyo-González, Á. Ruiz-Arias, M. Morris, R. Herranz

“Quinolimide-based solvatochromic fluorophores”

15:35 – 15:50 h ORAL COMMUNICATION

D. R. Ramos, O. N. H. Kaabeche, M. Iazykov, J. A. Santaballa, R. Zouaghi, M. Canle

“Photodegradation of ionic liquids: Relevant aspects concerning photocatalyst activity”

COFFEE BREAK AND POSTER SESSION

15:50 – 17:30 h SENADO ROOM – RECTORY BUILDING

SESSION VIII Chair: Luis Manuel Frutos Gaité

2017 & 2018 winners of the best PhD thesis in photochemistry of the GRUFO

17:30 – 17:50 h INVITED LECTURE

Fabio Julia

School of Chemistry, University of Manchester, UK

“Photophysical and photochemical properties of cyclometalated platinum(II) and platinum(IV) complexes”

17:50 – 18:10 h INVITED LECTURE

Laura Francés-Soriano

Institut de Biologie Intégrative de la Cellule, CNRS, France

“NIR-responsive nanohybrids for efficient energy transfer”

18:45 – 20:15h MOLICEIRO SIGHTSEEING TRIP

20:30 h CONFERENCE DINNER: RESTAURANTE OLARIA

Friday September 14, 2018

09:00 – 13:00 h SALA DE ACTOS ACADÉMICOS – RECTORY BUILDING

<http://academia.web.ua.pt/extraSCIRP/espacos/?t=1&id=10>**SESSION IX** Chair: Wajih Al-Soufi

09:00 – 10:00 h PLENARY LECTURE

Luis Arnaut

Departamento de Química, Universidade de Coimbra, Portugal

“From Photochemistry to Photomedicine: Health Solutions from Fundamental Science”

10:00 – 10:30 h KEYNOTE LECTURE

Uwe Pischel

Center for Research in Sustainable Chemistry, Universidad de Huelva, Spain

“Molecular engineering of two-photon absorbing four-coordinate organoboron fluorophores”

COFFEE BREAK

10:30 – 11:00 h HALL OF RECTORY BUILDING

SESSION X Chairs: Virginia Martínez Martínez and Uwe Pischel

11:00 – 11:20 h INVITED LECTURE

Ángela Sastre Santos

Instituto de Bioingeniería, Universidad Miguel Hernández, Elche, Spain

“Photophysical and synthesis of fused-phthalocyanine systems”

11:20 – 11:35 h ORAL COMMUNICATION

E. Aguiló, R. Gavara, A. Moro, J. C. Lima, L. Rodríguez*“Tuning luminescence properties and morphologies in Au(I) supramolecular structures”*

11:35 – 11:50 h ORAL COMMUNICATION

M. Novo, W. Al-Soufi, L. Piñeiro*“DNA intercalators studied by single-molecule fluorescence techniques”*

11:50 – 12:05 h ORAL COMMUNICATION

E. Perez-Inestrosa, D. Collado Martín, Y. Vida, F. Najera, V. Stamenkovic*“Aminonaphthalimide-squaraine DYADS: Photophysical properties and bioimaging application”*

12:05 – 12:20 h ORAL COMMUNICATION

R. Prieto-Montero, I. Lopez-Arbeloa, S. Lacombe, V. Martinez-Martinez*“Dye/silica nanoparticles for biomedical applications”*

12:20 – 12:35 h ORAL COMMUNICATION

L. M. Frutos, M. Marazzi*“Tuning spectroscopic and photoreactivity properties of optical switches by external forces”*

12:35 h CLOSING