



13th International Conference
on Optical Probes of Organic
and Hybrid Optoelectronic
Materials and Applications

PROGRAM

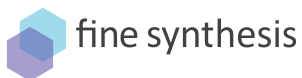
7–12 July, 2019 ▶

Artis Centrum Hotel
Vilnius, Lithuania

SPONSORS



Research
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WELCOME

TO THE 13TH INTERNATIONAL CONFERENCE ON OPTICAL PROBES OF ORGANIC AND HYBRID OPTOELECTRONIC MATERIALS AND APPLICATIONS

Dear colleagues,

On behalf of the Organizing Committee and the International Advisory Board, we welcome you to OP 2019 in Vilnius, Lithuania.

The 13th International Conference on Optical Probes of Organic and Hybrid Optoelectronic Materials and Applications 2019 is the premier international meeting bringing together scientists and engineers from around the world interested in the field of photophysics of organic and hybrid semiconductors. The primary goal of OP 2019 is to present state-of-the-art research, recent achievements and global trends in our understanding of excited state phenomena and photophysical processes, the development of novel spectroscopic techniques, and their applications to optoelectronic devices and biology. Special emphasis is placed on generality of the phenomena, rather than the specifics of the system or optical measurement.

Previous conferences took place at Snowbird (1992), Salt Lake City (1994), San-Diego (1997), Salt Lake City (2000), Venice (2003), Bangalore (2005), Turku (2007), Beijing (2009), Santa Fe (2011), Durham UK (2013), Hong Kong (2015) and Québec (2017).

Along with the stimulating program of scientific presentations and discussions, we have organized social events to allow you to experience Vilnius Old Town.

We are grateful to all our sponsors outlined in this program as well as to presenters.

We wish you a profitable and interesting exchange of knowledge and pleasant stay in Vilnius.

Conference Chair

Saulius Juršėnas
Vilnius University

A handwritten signature in blue ink, corresponding to the name Saulius Juršėnas.

CONFERENCE ORGANIZATION

Organizers



Vilnius
University



Lithuanian
Physical Society

Conference Chair

Prof. Saulius Juršėnas

Local committee

S. Raišys
P. Baronas
J. Baužys
I. Virbickienė
R. Karpič

Program committee

K. Kazlauskas, Vilnius University
T. Serevičius, Vilnius University
L. Valkūnas, Center for Physical Sciences and Technology
V. Gulbinas, Center for Physical Sciences and Technology

International committee

Chair: A. Monkman, UK

| | |
|-----------------------------|-------------------------|
| D.D.C. Bradley, UK | L. Peteanu, USA |
| F. M. B. Dias, UK | L. J. Rothberg, USA |
| E. Ehrenfreund, Israel | Z. Shuai, China |
| R.H. Friend, UK | C. Silva, Canada |
| L. Herz, UK | S. Tretiak, USA |
| O. Inganäs, Sweden | Z.V. Vardeny, USA |
| R. Janssen, The Netherlands | Xi Zhang, China |
| A. Kohler, Germany | J. Clark, UK |
| G. Lanzani, Italy | N. Banerji, Switzerland |
| J. Lupton, Germany | I. Samuel, Scotland |
| S. Mazumdar, USA | S. Kena-Cohen, Canada |
| R. Osterbacka, Finland | |

GENERAL INFORMATION

CONFERENCE VENUE

Artis Centrum Hotels

Address: Totoriu str. 23, Vilnius
LT-01120, Lithuania

All OP2019 lectures will be held at the Artis Centrum Hotel Conference Centre. Hotel is conveniently situated in the heart of Vilnius Old Town. The opening ceremony will take place in the main hall Aida on Sunday, 7 July.

The welcome reception follows the opening ceremony in the restaurant La Traviata located one floor down. On Monday through Friday, all scientific presentations will take place in hall Aida. Sessions for individual posters will take place in hall Carmen situated in the vicinity of hall Aida.

LANGUAGE

The official language of the conference is English. No simultaneous translation will be provided.

REGISTRATION AND NAME BADGE

The registration desk is located in the Conference centre and opens from 16.00 to 18.00 on Sunday, 7 July, and will be open on each remaining day of the conference. Participants of the conference will receive their name badge at the registration desk. You are kindly asked to wear your name badge during all events of the conference, including all the scientific sessions and all social events.

CERTIFICATE OF ATTENDANCE

We consider the Environment so each participant can download a certificate of

attendance from the online registration platform after the conference.

COFFEE BREAKS AND LUNCHES

Coffee breaks and lunches are included in the registration fee. Coffee breaks will take place in foyer of Aida hall in the Conference centre. Lunches will be served in the restaurant La Traviata located one floor down the Conference centre.

PRESENTATION REQUIREMENTS

Oral presentations

To guarantee a smooth presentation flow, please have your presentation ready on USB memory stick. Please, submit your presentation to our IT assistant in the main hall Aida at the latest the day before your presentation. If there is any technical problem with your file, this arrangement gives you still enough time to solve it. Please make sure to label your presentation file with your name and last name.

Poster sessions

Poster sessions will be held on Monday, 8 July and Tuesday, 9 July from 18.05 to 20.00. Presenting authors are requested to set up their posters in the morning of presenting day. Authors are required to be at their posters during the sessions. Posters must be removed promptly at the end of the session.

INTERNET ACCESS

The Conference centre of the hotel is equipped with free wireless Internet access, which is available in all areas of the Conference centre.



SCIENTIFIC PROGRAM - OVERVIEW

SCIENTIFIC ACTIVITIES

All scientific activities will take place in Artis Centrum Hotel Conference centre.

During the conference following scientific activities will be held:

Plenary sessions
[PS]

4 plenary lectures will be given during the conference.

Scientific sessions
[S]

Scientific sessions consist of invited and scientific oral contributions. 22 invited and over 50 oral presentations are scheduled for your interest.

Poster sessions
[POSTER S]

There are over 70 individual posters organized into 2 poster sessions, which will be held on Monday and Tuesday starting from 18.00.

SOCIAL EVENTS - OVERVIEW

WELCOME RECEPTION

Sunday, 7 July

18:00 - 20:00 | La Traviata restaurant

The welcoming speech and reception will take place in the restaurant La Traviata, located in the same conference hotel, on the second floor. All participants are invited to participate. Please wear your name badge.



EXCURSIONS

Wednesday, 10 July

From 14:00

We have planned several interesting tours for you to explore Vilnius city and get to know better our industry partner „Light Conversion“. It is required to book a place in advance. If you haven't registered for the excursion before your trip to Vilnius, please ask at the Hospitality desk (located in the Registration area) for availability. All planned tours will start from Artis hotel. Please meet your guide at the hotel reception.

Vilnius - intersection of the cultures

Duration of the tour: 2 hrs (walking tour)

Groups and prices: Min. group of 4, max. group of 25. Price: 10 EUR per person.

Date & Time: July 10, 14:00

Vilnius Walk-n-bite tour

Duration of the tour: 2+ hrs (walking tour)

Groups and prices: Min. group of 4, max. group of 20. Price: 35 EUR per person.

Date & Time: July 10, 14:00

Excursion to our industry partner “Light Conversion”

Duration of the tour: 1 h (in the premises of the company)

Groups and prices: 2 groups of 10 delegates. Attendance is free of charge

Date & Time: July 10, 16:00

CONFERENCE BANQUET

Wednesday, 10 July

19:00 | Vilnius Town Hall (Didzioji street 31, Vilnius)

Dress code - Cocktail attire

For the highlight of the social events program of the OP 2019, we invite you to a Conference Banquet, full of excellent food, good company and conversation, comfortable ambience and cultural insights.

The attendees will be offered a truly awe-inspiring dining experience filled with delicious recipes and warm atmosphere. Delightful trip of flavors will be accompanied by pleasant music and entertainments. For those who are tired of sitting all day and would like to enjoy the night, we are preparing a dance floor with a charismatic band “Ditties”, swing music and some drinks. Do not miss this great night with fellows from all over the world!



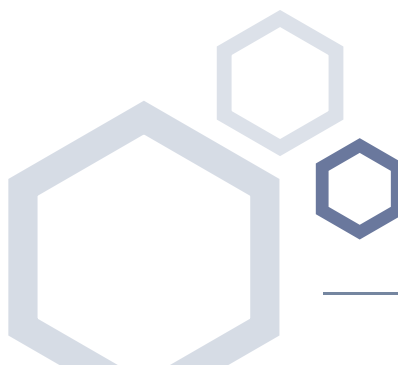
TIMETABLE

Sunday, 07/Jul/2019

| | |
|-------|-------------------|
| 16:00 | Registration |
| 18:00 | Welcome Reception |

Monday, 08/Jul/2019

| | |
|---------------|---|
| 8:50 - 9:00 | Opening Remarks |
| 9:00 - 9:45 | PS-1: Plenary 1 |
| 9:45 - 10:40 | S-1: Organic lasers and polaritons Session chair: Malte Gather |
| 10:40 - 11:10 | Coffee Break |
| 11:10 - 12:20 | S-2: Exciton and polariton spectroscopy 1 Session chair: Ifor Samuel |
| 12:20 - 14:00 | Lunch |
| 14:00 - 15:40 | S-3: Exciton and polariton spectroscopy 2 / OPV 1 Session chair: Anna Köhler |
| 15:40 - 16:10 | Coffee Break |
| 16:10 - 18:05 | S-4: OPV 2 Session chair: Derya Baran |
| 18:05 - 20:00 | POSTER S-1: POSTER SESSION I |





Tuesday, 09/Jul/2019

| | |
|---------------|---|
| 9:00 - 9:45 | PS-2: Plenary 2 |
| 9:45 - 10:40 | S-5: Perovskites 1 Session chair: Carlos Silva Acuna |
| 10:40 - 11:10 | Coffee Break |
| 11:10 - 12:20 | S-6: Perovskites 2 Session chair: Ramūnas Aleksiejūnas |
| 12:20 - 14:00 | Lunch |
| 14:00 - 15:30 | S-7: Perovskites 3 Session chair: Kam Sing Wong |
| 15:30 - 16:10 | Coffee Break |
| 16:10 - 17:50 | S-8: Exciton and polariton spectroscopy 3 Session chair: Stephane Kena-Cohen |
| 18:05 - 20:00 | POSTER S-2: POSTER SESSION II |

Wednesday, 10/Jul/2019

| | |
|---------------|---|
| 9:00 - 10:55 | S-9: Organic materials and devices 1 Session chair: Bernard Kippelen |
| 10:55 - 11:10 | Coffee Break |
| 11:10 - 12:20 | S-10: Organic materials and devices 2 Session chair: Johannes Gierschner |
| 12:20 - 14:00 | Lunch |
| 14:00 - 18:00 | Sightseeing and visit of industry partners (optional) |
| 19:00 - 21:00 | Banquet (Vilnius Town Hall) |





Thursday, 11/Jul/2019

| | |
|---------------|--|
| 9:00 - 9:45 | PS-3: Plenary 3 |
| 9:45 - 10:40 | S-11: TADF 1 Session chair: Ken-Tsung Wong |
| 10:40 - 11:10 | Coffee Break |
| 11:10 - 12:20 | S-12: TADF 2 Session chair: Fernando B. Dias |
| 12:20 - 14:00 | Lunch |
| 14:00 - 15:40 | S-13: Energy conversion 1: Singlet fission, triplet fusion Session chair: Angelo Monguzzi |
| 15:40 - 16:10 | Coffee Break |
| 16:10 - 18:00 | S-14: Energy conversion 2: Singlet fission, triplet fusion Session chair: Andrew Musser |

Friday, 12/Jul/2019

| | |
|---------------|--|
| 9:00 - 9:45 | PS-4: Plenary 4 |
| 9:45 - 10:40 | S-15: Bio-probes Session chair: Donatas Zigmantas |
| 10:40 - 11:10 | Coffee Break |
| 11:10 - 12:55 | S-16: 2D spectroscopy and microscopy Session chair: Gabriela Schlau-Cohen |
| 13:00 | Closing remarks & OP2021 |





ORAL PRESENTATIONS

Monday, 8 July

Location: Main hall

8:50 - 9:00 Opening remarks

PS-1: Plenary 1

Session chair: Ifor Samuel

9:00 - 9:45 ORGANIC SEMICONDUCTOR LASERS UNDER OPTICAL AND ELECTRICAL EXCITATION

Chihaya Adachi

Kyushu University, Fukuoka, Japan

S-1: Organic lasers and polaritons

Session chair: Ifor Samuel

9:45 - 10:10 ORGANIC MICROLASERS SENSE THE CONTRACTION OF HEART MUSCLE CELLS AND WHOLE HEARTS

Invited

Marcel Schubert¹, **Lewis Woolfson**¹, **Isla RM Barnard**¹, **San Dinh**¹, **Andrew Morton**¹, **Becky Casement**¹, **Gavin B Robertson**¹, **Gareth B Miles**¹, **Samantha J Pitt**¹, **Carl S Tucker**², **Malte C Gather**¹

¹ University of St Andrews, St Andrews, United Kingdom;

² University of Edinburgh, Edinburgh, United Kingdom

10:10 - 10:25 PERYLENE DERIVATIVES FOR POLARITON LASING

Girish Lakhwani

ARC Centre of Excellence in Exciton Science, The University of Sydney, Sydney, Australia

10:25 - 10:40 TOWARDS BOSE-EINSTEIN CONDENSATION OF EXCITON POLARITONS AT ROOM TEMPERATURE: TUNABLE LIQUID CRYSTAL MICROCAVITIES

Jacek Szczytko¹, **Katarzyna Lekenta**¹, **Mateusz Król**¹, **Rafał Mirek**¹, **Karolina Łempicka**¹, **Rafał Mazur**², **Przemysław Morawiak**², **Przemysław Kula**², **Wiktor Piecek**², **Michał Matuszewski**³, **Witold Bardyszewski**¹, **Pavlos C. Lagoudakis**⁴, **Barbara Piętka**¹

¹ Faculty of Physics, University of Warsaw, Poland;

² Institute of Applied Physics, Military University of Technology, Warsaw, Poland;

³ Institute of Physics, Polish Academy of Sciences, Warsaw, Poland;

⁴ School of Physics and Astronomy, University of Southampton, Southampton SO17 1BJ, UK

10:40 - 11:10 Coffee break



2019

S-2: Exciton and polariton spectroscopy 1

Session chair: Malte Gather

- 11:10 - 11:35
Invited
DYNAMICS OF CARRIERS, EXCITONS AND POLARITONS IN NOVEL MATERIALS
Stephane Kena-Cohen
Polytechnique Montreal, Montreal, Canada
- 11:35 - 11:50
QUANTUM SPECTROSCOPY OF CORRELATED EXCITONS AND POLARITONS
Eric Bittner
University of Houston, Houston, United States of America
- 11:50 - 12:05
THE ROLE OF INTERMOLECULAR AND PLASMONIC INTERACTIONS IN CHIRAL SUPRAMOLECULAR AND PLASMONIC AGGREGATES
Cristina Sissa, Anna Painelli, Swathi K.
Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Parma, Italy
- 12:05 - 12:20
QUANTUM WITNESS FROM PUMP-PROBE SPECTROSCOPY
Max Marcus, George Knee, Animesh Datta
University of Warwick, Coventry, United Kingdom

12:20 - 14:00 Lunch

S-3: Exciton and polariton spectroscopy 2 / OPV 1

Session chair: Anna Köhler

- 14:00 - 14:15
POLARITON ASSISTED TRANSPORT IN ORGANIC SEMICONDUCTORS WITHOUT A MICROCAVITY
Raj Pandya¹, Richard Chen¹, Qifei Gu¹, Jooyoung Sung¹, Christoph Schnedermann¹, Andrew Musser², Semion Saikin³, Joel Yuen-Zhou⁴, Akshay Rao¹
¹ University of Cambridge, Cambridge, United Kingdom;
² University of Sheffield, Sheffield, United Kingdom;
³ Harvard University, Cambridge, Massachusetts, United States of America;
⁴ University of California San Diego, La Jolla, California, United States of America
- 14:15 - 14:30
ENHANCING DELAYED LUMINESCENCE IN TETRACENE CRYSTALS BY STRONG LIGHT-MATTER COUPLING
Matthijs Berghuis¹, Alexei Halpin², Qynh Le Van², Mohammad Ramezani¹, Shaojun Wang¹, Jaime Gómez Rivas¹
¹ Eindhoven University of Technology, Eindhoven, The Netherlands;
² Dutch Institute for Fundamental Energy Research, Eindhoven, The Netherlands

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| | |
|-----------------------------------|---|
| 14:30 - 14:45 | <p>SINGLE CHAIN FLUORESCENCE STUDIES OF F8T2 AND F8SE2 Liwei Wang, Lewis Rothberg University of Rochester, Rochester, United States of America</p> |
| 14:45 - 15:10 Invited | <p>THE ROLE OF THIRD COMPONENT IN SINGLE JUNCTION ORGANIC PHOTOVOLTAICS Derya Baran King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia</p> |
| 15:10 - 15:25 | <p>CHARGE TRANSFER STATES AND TRIPLETS IN ORGANIC PHOTOVOLTAICS: FROM SMALL MOLECULES TO ULTRA-LOW BAND GAP POLYMERS Tracey Clarke University College London (UCL), London, United Kingdom</p> |
| 15:25 - 15:40 | <p>DECODING CHARGE RECOMBINATION THROUGH CHARGE GENERATION Safa Shoaib¹, Dieter Neher¹, Ardalan Armin² ¹ University of Potsdam, Potsdam, Germany; ² Swansea University, Swansea, United Kingdom</p> |
| 15:40 - 16:10 | Coffee break |
| S-4: OPV 2 | |
| <i>Session chair:</i> Derya Baran | |
| 16:10 - 16:35 Invited | <p>CHARGE TRANSFER STATES IN ORGANIC SOLAR CELLS Anna Köhler Soft Matter Optoelectronics, University of Bayreuth, Bayreuth, Germany</p> |
| 16:35 - 16:50 | <p>POLYMER DIELECTRIC MIRRORS TO BOOST PERFORMANCES OF LUMINESCENCE SOLAR CONCENTRATORS P. Lova¹, C. Iasilli², R. Francischello², S. Silvano¹, A. Surace¹, G. Pesce¹, M. Alloisio¹, M. Patrini³, A. Pucci², D. Comoretto¹ ¹ Dipartimento di Chimica e Chimica Industriale, Università di Genova, Genova, Italy; ² Dipartimento di Chimica e Chimica Industriale, Università di Pisa, Pisa, Italy; ³ Dipartimento di Fisica, Università di Pavia, Pavia, Italy</p> |
| 16:50 - 17:05 | <p>PHOTO-PHYSICS IN NON-FULLERENE ELECTRON ACCEPTORS: INVESTIGATING CHARGE-PHOTOGENERATION DYNAMICS Paul Shaw, Guanran Zhang, Alex Loch, Paul Burn The University of Queensland, Brisbane, Australia</p> |



17:05 - 17:20 FLUCTUATIONS IN EMISSION POLARIZATION & SPECTRUM IN SINGLE CHAINS OF THE ORGANIC PHOTOVOLTAIC POLYMER PTB7

Gordon J. Hedley^{1,2}, **Florian Steiner**^{2,3}, **Jan Vogelsang**³, **John M. Lupton**²

¹ School of Chemistry, University of Glasgow, Glasgow, United Kingdom;

² Institut für Experimentelle und Angewandte Physik, Universität Regensburg, Regensburg, Germany;

³ Department Chemie, Ludwig-Maximilians-Universität München, München, Germany

17:20 - 17:35 FROM TRANSIENT SPECTROSCOPY ON FILMS TO STEADY-STATE SOLAR CELL DEVICE PERFORMANCE

Julien François Corenflot¹, **Safakath Karthedath**¹, **Armantas Melianas**², **Zhipeng Kan**¹, **Martijn Kemerink**², **Frédéric Laquai**¹

¹ KAUST Solar Center (KSC), Physical Sciences and Engineering Division (PSE), Material Science and Engineering Program (MSE), King Abdullah University of Science and Technology (KAUST), Thuwal, Kingdom of Saudi Arabia;

² Department of Physics, Chemistry and Biology, Biomolecular and Organic Electronics, Center of Organic Electronics (COE), Linköping University, Linköping, Sweden

17:35 - 17:50 DISSIMILAR RECOMBINATION RATES OF SINGLET AND TRIPLET CHARGE TRANSFER STATES IN ORGANIC PHOTOVOLTAICS

Arvydas Ruseckas, **Scott J. Pearson**, **Gordon J Hedley**, **Ifor D. W. Samuel**
University of St Andrews, St Andrews, United Kingdom

17:50 - 18:05 TEMPERATURE DEPENDENT CHARGE CARRIER GENERATION IN ORGANIC BLENDS AND ITS RELATION TO THE OPEN CIRCUIT VOLTAGE

Nora Marita Wilson, **Harri Aarnio**, **Ronald Österbacka**
Åbo Akademi University, Åbo, Finland

18:05 - 20:00 Poster session I

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Tuesday, 9 July

Location: Main hall

PS-2: Plenary 2

Session chair: Carlos Silva Acuna

9:00 - 9:45 STABLE PEROVSKITE SOLAR CELLS BY COMPOSITIONAL AND INTERFACE ENGINEERING
Mohammad Khaja Nazeeruddin, Sanghyun Paek, Kyung Taek Cho, Mousa Abuhelaiqa, Hiroyuki Kanda, Hobeom Kim, Yi Zhang, Valentin I. E. Quelo, Aron Joel Huckaba, Yonghui Lee, Roldan Carmona Cristina, Giulia Grancini
 The Group for Molecular Engineering of Functional Materials, Ecole Polytechnique Fédérale de Lausanne, Sion, Switzerland

S-5: Perovskites 1

Session chair: Carlos Silva Acuna

9:45 - 10:10 OPTICAL STUDIES OF SPONTANEOUSLY FORMED BRIGHTLY EMITTING QUASI-2D PEROVSKITES NANOCRYSTALS IN AMORPHOUS MATRIX
 Invited
Christopher C. S. Chan¹, Fangzhou Liu², Chao Ma¹, Aleksandra B. Djurišić², Kam Sing Wong¹
¹ Departemnt of Physics, HKUST, Kowloon, Hong Kong S.A.R., China;
² Departemnt of Physics, HKU, Hong Kong S.A.R., China

10:10 - 10:25 THE REMARKABLE PHOTOPHYSICS OF FORMAMIDIUM TIN TRIIODIDE – ON HOT STATES AND DARK STATES
Simon Kahmann, Maria Antonietta Loi
 University of Groningen, Groningen, The Netherlands

10:25 - 10:40 CHARGE CARRIER RECOMBINATION DYNAMICS AND CARRIER-PHONON INTERACTIONS IN SOLUTION PROCESSED BISMUTH HALIDE SEMICONDUCTORS
Lissa Eyre, Robert Hoye, Lana Lee, Tahmida Huq, Hannah Joyce, Felix Deschler
 University of Cambridge, Cambridge, United Kingdom

10:40 - 11:10 Coffee break

S-6: Perovskites 2

Session chair: Ramūnas Aleksiejūnas

11:10 - 11:35 EXCITON POLARONS IN TWO-DIMENSIONAL LEAD-HALIDE PEROVSKITES
 Invited
Félix Thouin¹, Ajay Ram Srimath Kandada², David A. Valverde Chávez¹, Carlos Silva¹
¹ Georgia Institute of Technology, Atlanta, United States of America;
² Center for Nano Science and Technology@PoliMi, Istituto Italiano di Tecnologia, Milan, Italy



- 11:35 - 11:50 **FARADAY EFFECT IN LEAD HALIDE PEROVSKITES**
Randy Sabatini¹, Wenxin Mao², Udo Bach², Girish Lakhwani¹
¹ University of Sydney, Sydney, Australia;
² Monash University, Melbourne, Australia
-
- 11:50 - 12:05 **LONG-RANGE BALLISTIC PROPAGATION OF CARRIERS IN ORGANIC-INORGANIC METAL-HALIDE PEROVSKITE THIN FILMS**
Jooyoung Sung^{1,2}, Christoph Schnedermann^{1,2}, Limeng Ni¹, Philipp Kukura², Akshay Rao¹
¹ University of Cambridge, Cambridge, United Kingdom;
² University of Oxford, Oxford, United Kingdom
-
- 12:05 - 12:20 **SPIN-POLARISED EXCITON STATE SPLITTING AND POPULATION DYNAMICS IN 2D METAL-HALIDE PEROVSKITES**
Sean Alexander Bourelle, Ravichandran Shivanna, Felix Deschler
 University of Cambridge, Cambridge, United Kingdom

12:20 - 14:00 Lunch

S-7: Perovskites 3

Session chair: Kam Sing Wong

- 14:00 - 14:15 **TRANSIENT ABSORPTION AND ELECTROLUMINESCENCE REVEAL SPATIAL CARRIER DISTRIBUTION IN QUASI TWO-DIMENSIONAL PEROVSKITE LEDS**
Vidmantas Gulbinas¹, Rokas Gegevičius¹, Andrius Devižis¹, Azhar Fakharuddin², Andrej Kadaschuk³
¹ Center for Physical Sciences and Technology, Vilnius, United Kingdom;
² Imec, Kapeldreef 75, 3001, Leuven, Belgium;
³ Institute of Physics, Prospect Nauky 46, 03028 Kyiv, Ukraine
-
- 14:15 - 14:30 **BRINGING NONLINEAR STIMULATED EMISSION TO THE INFRARED - FROM SAPPHIRE AND FUSED SILICA TO PEROVSKITES**
Thomas Winkler¹, Sean Bourelle¹, Sascha Feldmann¹, Lissa Eyre¹, Angus Mathiesen¹, Peter Balling², Thomas Baumert³, Felix Deschler¹
¹ University of Cambridge, Department of Physics, United Kingdom;
² Department of Physics and Astronomy, Aarhus University, Denmark;
³ Institute for Physics and CINSaT, University of Kassel, Germany
-
- 14:30 - 14:45 **LIGHT EMISSION FORM STOICHIOMETRICALLY TUNED QUASI TWO-DIMENSIONAL PEROVSKITES**
Azhar Fakhar Uddin¹, Weiming Qiu¹, Guillaume Croes¹, Andrius Devižis², Robert Gehlhaar¹, Andrej Kadashchuk³, Vidmantas Gulbinas², Paul Heremans¹
¹ IMEC, Leuven, Belgium;
² Center for Physical Sciences and Technology, Vilnius, Lithuania;
³ Institute of Physics, National Academy of Sciences of Ukraine, Kyiv, Ukraine

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14:45 - 15:00 CARBAZOLE-BASED MONOLAYERS AS A HOLE-SELECTIVE CONTACT FOR PEROVSKITE SOLAR CELLS

Artiom Magomedov¹, Amran Al-Ashouri², Ernestas Kasparavičius¹, Tadas Malinauskas¹, Steve Albrecht², Vytautas Getautis¹

¹ Kaunas University of Technology, Kaunas, Lithuania;

² Institute for Silicon Photovoltaics, Helmholtz-Zentrum Berlin, Germany

15:00 - 15:15 IMPROVING THE PHOTOLUMINESCENCE QUANTUM YIELDS OF QUANTUM DOT FILMS THROUGH A DONOR/ACCEPTOR SYSTEM FOR NEAR-IR LEDS

Nathaniel J L K Davis¹, Jesse R Allardice², James Xiao², Arfa Karani², Tom C Jellicoe², Akshay Rao², Neil C Greenham²

¹ School of Chemical and Physical Sciences, Victoria University of Wellington, Wellington, New Zealand;

² Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom

15:15 - 15:30 CARRIER RECOMBINATION AND DIFFUSION IN WET-CAST TIN IODIDE PEROVSKITE LAYERS UNDER HIGH INTENSITY PHOTOEXCITATION

Ramunas Aleksiejunas¹, P. Scajev¹, P. Baronas¹, D. Litvinas¹, M. Kolenda¹, C. Qin^{2,3}, T. Fujihara⁴, T. Matsushima^{2,3,5}, C. Adachi^{2,3,5}, S. Jursenas¹

¹ Institute of Photonics and Nanotechnology, Physics Faculty, Vilnius University, Vilnius, Lithuania;

² Center for Organic Photonics and Electronics Research (OPERA), Kyushu University, Nishi, Fukuoka, Japan;

³ Adachi Molecular Exciton Engineering Project, Japan Science and Technology Agency (JST), ERATO, Nishi, Fukuoka, Japan;

⁴ Innovative Organic Device Laboratory, Institute of Systems, Information Technologies and Nanotechnologies (ISIT), Fukuoka Industry-Academia Symplicity (FiaS), Nishi, Fukuoka, Japan;

⁵ International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University, Nishi, Fukuoka, Japan

15:30 - 16:10 Coffee break

S-8: Exciton and polariton spectroscopy 3

Session chair: Stephane Kena-Cohen

16:10 - 16:35 **MAGNETIC FIELD INDUCED CIRCULAR POLARIZATION OF PHOSPHORESCENCE AND PHOTOLUMINESCENCE IN PT-RICH POLYMERS**

Eitan Ehrenfreund¹, Chuang Zhang², Dali Sun², Ryan McLaughlin², Dmitry Semenov³, Stephen McGill³, Zhi Gang Yu⁴, Z. Valy Vardeny²

¹ Technion – Israel Institute of Technology, Haifa, Israel;

² University of Utah, Salt Lake City, Utah, United States of America;

³ National High Magnetic Field Lab., Tallahassee, Florida, United States of America;

⁴ Washington State University, Spokane, Washington, United States of America



- 16:35 - 16:50 CONTACT RESISTANCE IN AMBIPOLAR ORGANIC FIELD-EFFECT TRANSISTORS MEASURED BY CONFOCAL PHOTOLUMINESCENCE ELECTRO-MODULATION MICROSCOPY
Wouter Koopman¹, Marco Natali², Manuela Melucci³, Muccini Michele², Stefano Toffanin²
¹ Universitat Potsdam, Potsdam, Germany;
² CNR-ISMN, Bologna, Italy;
³ CNR-ISOF, Bologna, Italy
- 16:50 - 17:05 TUNING THE PHOTO-PHYSICS OF MOLECULES FOR OPTO-ELECTRONIC APPLICATIONS USING PLASMONIC AND DIELECTRIC EFFECTS
Sikandar Abbas, Linda Peteanu
Department of Chemistry, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States of America
- 17:05 - 17:20 HARNESSING ELECTRONIC ENERGY STORAGE: MOLECULAR DYADS, NANOPARTICLES, MOLECULAR MACHINES
Gediminas Jonusauskas, Nathan D. McClenaghan
CNRS - Bordeaux University, Talence, France
- 17:20 - 17:35 SPECTROSCOPY OF ORGANIC SEMICONDUCTOR PROTEIN-COMPLEXES.
Jozra Garrido-Velasco, George Sutherland, Mark Geoghegan, Neil C Hunter, Jenny Clark
The University of Sheffield, Sheffield, United Kingdom
- 17:35 - 17:50 ENHANCED THERMALLY ACTIVATED DELAYED FLUORESCENCE THROUGH BRIDGE MODIFICATION IN SULFONE-BASED EMITTERS EMPLOYED IN DEEP BLUE ORGANIC LIGHT-EMITTING DIODES
Rajamalli Pachai Gounder, Dongyang Chen, Wenbo Li, Ifor D.W. Samuel, Eli Zysman-Colman
University of St Andrews, St Andrews, United Kingdom
- 18:05 - 20:00 Poster session II

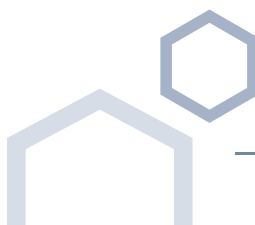
Monday, 8 July

Tuesday, 9 July

Wednesday, 10 July

Thursday, 11 July

Friday, 12 July





Wednesday, 10 July

Location: Main hall

S-9: Organic materials and devices 1

Session chair: Bernard Kippelen

9:00 - 9:25

Invited

EXCITON AND CHARGE DIFFUSION IN ORGANIC AND HYBRID SEMICONDUCTORS

Ifor Samuel, Oskar Blaszczyk, Muhammad T. Sajjad, Lethy Krishnan Jagadamma, Arvydas Ruseckas, Yiwei Zhang

Organic Semiconductor Centre, School of Physics and Astronomy, University of St Andrews, St Andrews, United Kingdom

9:25 - 9:50

Invited

A NEW APPROACH TO SUPER-RESOLUTION SPECTROSCOPY

Dmitrij Frolov¹, **Simona Streckaitė**¹, **Cristian Illoiaia**¹, **Jevgenij Chmeliov**², **Leonas Valkunas**², **Andrew Gall**¹, **Bruno Robert**¹

¹ Institute of Integrative Biology of the Cell, Gif sur Yvette, France;

² Center for Physical Sciences and Technology, Vilnius, Lithuania

9:50 - 10:15

Invited

FEATURES AND FATES OF EXCITONS IN LUMINESCENT ORGANIC SOLIDS

Johannes Gierschner

IMDEA Nanoscience, Madrid, Spain

10:15 - 10:30

CROSSED 2D VS. SLIPPED 1D PI-STACKING IN POLYMORPHS OF CRYSTALLINE ORGANIC THIN FILMS: IMPACT ON THE ELECTRONIC AND OPTICAL RESPONSE

María José Aliaga¹, **Michael Dohr**², **Juan Carlos Roldao**³, **Sang Kyu Park**⁴, **Sangyoon Oh**⁴, **Shinto Varghese**⁵, **Soo Young Park**⁴, **Yoann Olivier**⁵, **Nicola Demitri**⁶, **Begoña Milián-Medina**¹, **Roland Resel**², **Johannes Gierschner**³

¹ University of Valencia, Burjassot (Valencia), Spain;

² Institute of Solid State Physics, Graz University of Technology, Graz, Austria;

³ Madrid Institute for Advanced Studies, IMDEA Nanoscience, Madrid, Spain;

⁴ Center for Supramolecular Optoelectronic Materials, Department of Materials Science and Engineering, Seoul National University, Seoul, Republic of Korea;

⁵ Laboratory for Chemistry of Novel Materials, Université de Mons, Mons, Belgium;

⁶ Elettra-Sincrotrone Trieste, AREA Science Park, Basovizza, Trieste, Italy

10:30 - 10:55

Invited

CAN EXCIPLEX DIFFUSE?

Jang-Joo Kim, **Hwang-Bum Kim**

Department of Materials Science and Engineering, Seoul National University, Seoul, Republic of Korea

10:55 - 11:10

Coffee break



2019

S-10: Organic materials and devices 2

Session chair: Johannes Gierschner

| | |
|--------------------------|--|
| 11:10 - 11:35 Invited | PROBING STRUCTURE-EXCITED STATE PROPERTIES RELATIONSHIP Pi-Tai Chou National Taiwan University, Taipei, Taiwan |
| 11:35 - 11:50 | SEARCHING FOR OLED EMITTERS WITH INVISIBLE LUMINESCENCE Piotr Pander¹, Melissa T. Walden², Inês Tavares¹, J. A. Gareth Williams², Fernando B. Dias¹ ¹ Physics Department, Durham University, Durham, United Kingdom; ² Chemistry Department, Durham University, Durham, United Kingdom |
| 11:50 - 12:05 | EFFICIENT FAR-RED/NEAR-INFRARED POLYMER LIGHT-EMITTING DIODES INCORPORATING A DIKETOPYRROLOPYRROLE DERIVATIVE Alessandro Minotto¹, Paul A. Haigh^{2,3}, Łukasz G. Łukasiewicz⁴, Eugenio Lunedei⁵, Daniel T. Cryko⁴, Izzat Darwazeh², Franco Cacialli¹ ¹ Department Physics and Astronomy and London Centre for Nanotechnology, University College London, London, United Kingdom; ² Communications and Information Systems, University College London, London, United Kingdom; ³ School of Engineering, Newcastle University, Newcastle, United Kingdom; ⁴ Institute of Organic Chemistry of the Polish Academy of Sciences, Warsaw, Poland; ⁵ Institute for the Study of Nanostructured Materials (ISMN-CNR), Bologna, Italy |
| 12:05 - 12:20 | NEW BORON(III) BLUE EMITTERS FOR ALL-SOLUTION PROCESSED OLEDs: MOLECULAR DESIGN ASSISTED BY THEORETICAL MODELING Cristian AM Salla¹, Jéssica Teixeira dos Santos¹, Giliandro Farias¹, Adailton J Bortoluzzi¹, Sergio F Curcio², Thiago Cazati², Bernardo de Souza¹, Ivan Helmuth Bechtold¹ ¹ Federal University of Santa Catarina, Florianópolis, Brazil; ² Federal University of Ouro Preto, Ouro Preto, Brazil |
| 12:20 - 14:00 | Lunch |
| 14:00 - 18:00 | Sightseeing and visit of industry partners (optional) |
| 19:00 - 21:00 | Banquet (Vilnius Town Hall) |

Monday, 8 July

Tuesday, 9 July

Wednesday, 10 July

Thursday, 11 July

Friday, 12 July





Thursday, 11 July

Location: Main hall

PS-3: Plenary 3

Session chair: Ken-Tsung Wong

- 9:00 - 9:45 THERMALLY ACTIVATED DELAYED FLUORESCENCE; FROM PHOTOPHYSICS TO DEVICES, HOW MOLECULAR STRUCTURE AND RISC RATE CONTROL THINGS
Andrew Monkman, M. Etherington, P. dos Santos Lays, D. Pereira, J. Gibbson, H. Cole, D. Graves, M. Colella, A. Danos, P. Data, R. Nobuyasu, F.B. Dias, T. Penfold
 Department of Physics, Durham University, Durham, United Kingdom

S-11: TADF 1

Session chair: Ken-Tsung Wong

- 9:45 - 10:10 RECENT ADVANCES IN TADF MATERIALS AND DEVICES
 Invited **Bernard Kippelen**
 Georgia Tech (Georgia Institute of Technology), Atlanta, United States of America
- 10:10 - 10:25 DIMERS ARE FOREVER: PERSISTENT DIMER EMISSION IN THERMALLY ACTIVATED DELAYED FLUORESCENCE MATERIALS
Marc K. Etherington¹, Nadzeya A. Kukhta², Heather F. Higginbotham¹, Andrew Danos¹, Aisha N. Bismillah², David R. Graves¹, Paul R. McGonigal², Nils Haase^{3,4}, Antonia Morherr³, Andrei S. Batsanov², Christof Pflumm³, Vandana Bhalla^{2,5}, Martin R. Bryce², Andrew P. Monkman¹
¹ Department of Physics, Durham University, Durham, United Kingdom;
² Department of Chemistry, Durham University, Durham, United Kingdom;
³ Merck KGaA, Performance Materials – Display Solutions, Darmstadt, Germany;
⁴ Institute of Physics, Experimental Physics IV, University of Augsburg, Augsburg, Germany;
⁵ Department of Chemistry, Guru Nanak Dev University, Amritsar, India
- 10:25 - 10:40 DESIGN STRATEGIES TO IMPROVE THE PERFORMANCE OF BLUE TADF-OLEDs
Paloma Lays dos Santos, Dongyang Chen, Pachaiyappan Rajamalli, Tomas Matulaitis, Eli Zysman-Colman, Ifor Samuel
 University of St Andrews, St Andrews, United Kingdom
- 10:40 - 11:10 Coffee break

S-12: TADF 2

Session chair: Fernando B. Dias

- | | |
|--------------------------|---|
| 11:10 - 11:35 Invited | MATERIALS FOR HIGH EFFICIENCY EXCIPLEX-HOSTED OLED Ken-Tsung Wong National Taiwan University, Taipei, Taiwan |
| 11:35 - 11:50 | LESS IS MORE; DILUTION ENHANCEMENT OF TADF EXCIPLEXES Marco Colella, Andrew Danos, Andrew P. Monkman Durham University, Durham, United Kingdom |
| 11:50 - 12:05 | USING TRANSIENT ABSORPTION TO PROBE EXCITED STATE DYNAMICS IN ORGANIC THERMALLY ACTIVATED DELAYED FLUORESCENCE EMITTING SMALL MOLECULES Yun Long, Chunyong Li, Andrew Monkman University of Durham, Durham, United Kingdom |
| 12:05 - 12:20 | SOLVATION PHENOMENA IN TADF AND SYMMETRY BREAKING Francesco Di Maiolo, D. K. Andrea Phan Huu, Anna Painelli Parma University, Parma, Italy |

12:20 - 14:00 Lunch

S-13: Energy conversion 1: Singlet fission, triplet fusion

Session chair: Angelo Monguzzi

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|--------------------------|---|
| 14:00 - 14:25 Invited | MANIPULATING MATTER WITH STRONG COUPLING: HARVESTING TRIPLET EXCITONS IN ORGANIC EXCITON MICROCAVITIES Daniel Polak¹, Rahul Jayaprakash¹, Thomas Lyons¹, Anastasia Leventis², Kealan Fallon², Harriet Coulthard¹, David Bossanyi¹, Kyriacos Georgiou¹, Anthony Petty³, John Anthony³, Hugo Bronstein², Alexander Tartakovskii¹, David Lidzey¹, Jenny Clark¹, Andrew Musser¹ ¹ Department of Physics and Astronomy, University of Sheffield, Sheffield, United Kingdom; ² Department of Chemistry, University of Cambridge, Cambridge, United Kingdom; ³ Department of Chemistry, University of Kentucky, Lexington, Kentucky, United States of America |
| 14:25 - 14:40 | INTRAMOLECULAR SINGLET FISSION IN EXTENDED SYSTEMS: OLIGOMERS, POLYMERS, AND FILMS Matthew Y. Sfeir¹, Samuel N. Sanders², Lauren M. Yablon², Guiying He³, Abigail K. Williams⁴, Jason D. Azoulay⁴, Dane R. McCamey⁵, Jianlong Xia³, Luis M. Campos² ¹ City University of New York, New York, United States of America; ² Columbia University, New York, United States of America; ³ Wuhan University of Technology, Wuhan, China; ⁴ University of Southern Mississippi, Hattiesburg, United States of America; ⁵ University of New South Wales, Sydney, Australia |



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| Monday, 8 July | 14:40 - 14:55 A MOLECULAR MOVIE OF ULTRAFAST SINGLET FISSION Christoph Schnedermann^{1,2}, Antonios M. Alvertis¹, Torsten Wende², Steven Lukman¹, Jiaqi Feng³, Florian A.Y.N. Schröder¹, David H.P. Turban¹, Jishan Wu³, Nicholas D.M. Hine⁴, Neil C. Greenham¹, Alex W. Chin⁵, Akshay Rao¹, Philipp Kukura², Andrew J. Musser⁶ ¹ Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom; ² Physical and Theoretical Chemistry Laboratory, Oxford University, Oxford, United Kingdom; ³ Department of Chemistry, National University of Singapore, Singapore; ⁴ Department of Physics, University of Warwick, Coventry, United Kingdom; ⁵ Centre National de la Recherche Scientifique, Institute des Nanosciences de Paris, Sorbonne Université, Paris, France; ⁶ Department of Physics and Astronomy, University of Sheffield, Sheffield, United Kingdom |
| Tuesday, 9 July | 14:55 - 15:10 PHOTON EMISSION FROM NON-GEMINATE TRIPLET-PAIR STATES David Bossanyi¹, Francesco Rossetto¹, Maik Matthiesen², Luke Rochford³, John Anthony⁴, Jana Zaumseil², Jenny Clark¹ ¹ Department of Physics and Astronomy, The University of Sheffield, Sheffield, United Kingdom; ² Institute for Physical Chemistry, Universität Heidelberg, Heidelberg, Germany; ³ School of Chemistry, University of Birmingham, Birmingham, United Kingdom; ⁴ Department of Chemistry, University of Kentucky, Lexington, Kentucky, United States of America |
| Wednesday, 10 July | 15:10 - 15:25 QUANTITATIVE SINGLET FISSION AND TRIPLET EXTRACTION IN SOLUTION AT EFFECTIVE SOLAR FLUENCE Jesse Allardice¹, Arya Thampi¹, Simon Downland¹, James Xiao¹, Victor Gray¹, Zhilong Zhang¹, Petter Budden¹, Anthony J. Petty II², Nathaniel J. L. K. Davis³, John E. Anthony², Akshay Rao¹, Neil C. Greenham¹ ¹ University of Cambridge, Cambridge, United Kingdom; ² Department of Chemistry, University of Kentucky, Lexington, Kentucky, United States of America; ³ Mc Darmond Institute, Victoria University of Wellington, Wellington, New Zealand |
| Thursday, 11 July | 15:25 - 15:40 OPTIMISING SINGLET FISSION DYNAMICS AND PHASE IN TIPS-TETRACENE FILMS AND BLENDS FOR DOWN-CONVERSION OF LIGHT Nipun Sawhney, Arya Thampi, Yuk Shek Chen, Jesse Allardice, Akshay Rao University of Cambridge, Cambridge, United Kingdom |
| Friday, 12 July | 15:40 - 16:10 Coffee break |

S-14: Energy conversion 2: Singlet fission, triplet fusion

Session chair: Andrew Musser

16:10 - 16:35

Invited

THE ROLE OF THE QUANTUM-ENTANGLED TRIPLET-TRIPLET BIEXCITON IN SINGLET FISSION: RECENT THEORETICAL DEVELOPMENTS

Sumit Mazumdar, Souratosh Khan

University of Arizona, Tucson, United States of America

16:35 - 16:50

ENGINEERING TRIPLET PAIR SEPARATION IN PENTACENE DIMERS

Ashish Sharma¹, Elango Kumarasamy², Amir Asadpoordarvish³, Dane R. McCamey³, Luis M. Campos², Akshay Rao⁴, Murad J. Y. Tayebjee⁵, Girish Lakhwani¹

¹ ARC Centre of Excellence in Exciton Science, School of Chemistry, The University of Sydney, Sydney, Australia;

² Department of Chemistry, Columbia University, New York, United States of America;

³ School of Physics and ARC Centre of Excellence in Exciton Science, School of Physics, University of New South Wales, Sydney, Australia;

⁴ Cavendish Laboratory, University of Cambridge, Cambridge, United Kingdom;

⁵ School of Photovoltaic and Renewable Energy Engineering, University of New South Wales, Sydney, Australia

16:50 - 17:15

Invited

TRIPLET-TRIPLET ANNIHILATION DYNAMICS IN NANOSIZED FLUORESCENT SUPRAMOLECULAR SYSTEMS

Angelo Monguzzi

Department of Materials Science, University of Milano Bicocca, Milan, Italy

17:15 - 17:30

NEAR INFRARED-TO-BLUE PHOTON UPCONVERSION BASED ON SINGLET-TO-TRIPLET DIRECT TRANSITION

Yoichi Sasaki¹, Nobuhiro Yanai^{1,2}, Nobuo Kimizuka¹

¹ Department of Chemistry and Biochemistry, Graduate School of Engineering, Center for Molecular Systems (CMS), Kyushu University, Fukuoka, Japan;

² JST-PRESTO, Saitama, Japan

17:30 - 17:45

DEVELOPMENT OF NEW BILUMINESCENT EMITTERS FOR THE CONCEPTION OF BLUE-LIGHT-ACTIVATED PROGRAMMABLE LUMINESCENT TAGS

Marine Louis, Heidi Thomas, Max Gmelch, Anna Haft, Felix Fries, Sebastian Reineke

Dresden Integrated Center for Applied Physics and Photonic Materials (IAPP) and Institute for Applied Physics, Technische Universität Dresden, Dresden, Germany

17:45 - 18:00

CONVERSION OF DIM ORGANIC PHOSPHORS INTO BRIGHT LONG-LIFETIME LUMINOPHORES

Erki Enkvist, Asko Uri

University of Tartu, Tartu, Estonia

Monday, 8 July

Tuesday, 9 July

Wednesday, 10 July

Thursday, 11 July

Friday, 12 July



Friday, 12 July

Location: Main hall

PS-4: Plenary 4

Session chair: Donatas Zigmantas

9:00 - 9:45 **ORGANIC ACTUATORS FOR CELL OPTO STIMULATION**
Guglielmo Lanzani
 Italian Institute of Technology, Milan, Italy

S-15: Bio-probes

Session chair: Donatas Zigmantas

9:45 - 10:10
 Invited **CONTROLLING ENERGY TRANSPORT WITH DNA-
 CHROMOPHORE ASSEMBLIES**
Gabriela Schlau-Cohen
 Massachusetts Institute of Technology (MIT), Cambridge, Massachusetts,
 United States of America

10:10 - 10:25 **STRUCTURAL AND PHOTOPHYSICAL TEMPLATING OF
 A CONJUGATED POLYELECTROLYTE WITH SINGLE-
 STRANDED DNA**
**Sophia Hayes¹, Eliana Nicolaidou¹, Lisa Peterhans², Polydefkis Diamantis³,
 Ursula Röthlisberger³, Natalie Banerji²**
¹ Department of Chemistry, University of Cyprus, Nicosia, Cyprus;
² Department of Chemistry and Biochemistry, University of Bern, Bern,
 Switzerland;
³ Laboratory of Computational Chemistry and Biochemistry, Ecole
 Polytechnique Fédérale de Lausanne, Lausanne, Switzerland

10:25 - 10:40 **HYBRID PLASMONIC/PHOTONIC CRYSTALS FOR OPTICAL
 DETECTION OF BACTERIAL CONTAMINANTS**
**Giuseppe Maria Paternò¹, Liliana Moscardi^{1,2}, Stefano Donini¹,
 Davide Ariodanti³, Ilka Kriegel⁴, Emilio Parisini¹, Guglielmo Lanzani^{1,2},
 Francesco Scotognella^{1,2}**
¹ Center for Nanoscience and Technology, Istituto Italiano di Tecnologia,
 Milan, Italy;
² Dipartimento di Fisica, Politecnico di Milano, Milan, Italy;
³ Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta",
 Politecnico di Milano, Milan, Italy;
⁴ Department of Nanochemistry, Istituto Italiano di Tecnologia, Genova, Italy

10:40 - 11:10 Coffee break



S-16: 2D spectroscopy and microscopy

Session chair: Gabriela Schlau-Cohen

11:10 - 11:35

Invited

COHERENT DYNAMICS AND ELECTRONIC STRUCTURE IN PORPHYRIN NANORINGS EXPLORED BY 2D ELECTRONIC SPECTROSCOPY

Vytautas Butkus¹, Jan Alster², Egle Bukarte (Basinskaite)², Ramunas Augulis², Patrik Neuhaus³, Leonas Valkunas¹, Harry L. Anderson³, Darius Abramavicius¹, Donatas Zigmantas²

¹Lund University, Lund, Sweden;

²Vilnius University, Vilnius, Lithuania;

³University of Oxford, Oxford, United Kingdom

11:35 - 12:00

Invited

QUANTUM THEORY OF TWO-FOLD CHARGE SEPARATION DYNAMICS IN ORGANIC SOLAR CELLS

Darius Abramavicius, I. Guigaitė

Institute of Chemical Physics, Physics Faculty, Vilnius University, Lithuania

12:00 - 12:25

Invited

HIGHER-ORDER AND FLUORESCENCE-DETECTED 2D SPECTROSCOPY AND MICROSCOPY OF OPTOELECTRONIC MATERIALS

Tobias Brixner

Institut für Physikalische und Theoretische Chemie, Universität Würzburg, Würzburg, Germany

12:25 - 12:40

USING TWO-DIMENSIONAL SPECTROSCOPY TO PROBE RELAXATION, DECOHERENCE AND LOCALIZATION OF PHOTO-EXCITED STATES IN PI-CONJUGATED POLYMERS

William Barford, John Gardner

University of Oxford, Oxford, United Kingdom

12:40 - 12:55

FAST ALGORITHM FOR SIMULATING NONLINEAR ULTRAFAST SPECTROSCOPIES

Peter A. Rose¹, Jacob J. Krich^{1,2}

¹Department of Physics, University of Ottawa, Ottawa, Canada;

²School of Electrical Engineering and Computer Science, University of Ottawa, Ottawa, Canada

13:00

Closing remarks & OP2021

Monday, 8 July

Tuesday, 9 July

Wednesday, 10 July

Thursday, 11 July

Friday, 12 July





POSTERS

Monday, 8 July

Location: Carmen hall

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- I-1 MESOSCOPIC ORDERING BEYOND OF INTERMOLECULAR INTERACTIONS OF RH6G SELF-ORGANIZED WITHIN THE HYBRID SOL-GEL FILMS
German Telbiz¹, V. Yaschuk², S. Bugaichuk², A. Glyschenko⁴, E. Tikhonov⁵, L. Valkunas⁶, V. Gulbinas⁶
¹ Department of Physical-Inorganic Chemistry, Institute of Physical Chemistry, National Academy of Sciences of Ukraine (NASU), Kyiv, Ukraine;
² Department of Liq. Crystal Physics, Institute of Physics, National Academy of Sciences of Ukraine (NASU), Kyiv, Ukraine;
³ Department of Optics, Kyiv T. Shevchenko National University, Kyiv, Ukraine;
⁴ Department of Physics, University of Colorado at Colorado Springs, Colorado Springs, Colorado, United States of America;
⁵ Department of Physics, Institute of Physics, National Academy of Sciences of Ukraine (NASU), Kyiv, Ukraine;
⁶ Center for Physical Sciences and Technology, Vilnius, Lithuania
-
- I-2 ULTRAFAST CHARGE TRANSFER DYNAMICS IN HIGHLY EFFICIENT NONFULLERENE ORGANIC SOLAR CELLS
Rokas Jasiūnas¹, Huotian Zhang², Feng Gao², Vidmantas Gulbinas¹
¹ Center for Physical Sciences and Technology, Vilnius, Lithuania;
² Biomolecular and Organic Electronics, Department of Physics, Chemistry and Biology (IFM), Linköping University, Linköping, Sweden
-
- I-3 SECOND HARMONIC GENERATION ON PENTACENE-PERFLUOROPENTACENE INTERFACES
Vipilan Sivanesan¹, Frank Schreiber², Katharina Broch², Petra Tegeder¹
¹ Heidelberg University, Heidelberg, Germany;
² University of Tübingen, Tübingen, Germany
-
- I-4 THERMAL AND OPTICAL PROPERTIES OF 6-(TERT-BUTYL)-4H-PYRAN-4-YLIDENE FRAGMENT CONTAINING LASER DYES WITH DIFFERENT ELECTRON ACCEPTORS AND BULKY MOIETIES
Elmars Zarins, Deins Alksnis, Kristine Lazdovica, Valdis Kokars
 Institute of Applied Chemistry, Riga Technical University, Riga, Latvia
-
- I-5 NIR OLEDs: EMITTERS, PHOTOPHYSICS AND DEVICES
Inês C. Tavares¹, Piotr Pander¹, Melissa Walder², Gareth Williams², Fernando B. Dias¹
¹ Physics Department, Durham University, Durham, United Kingdom;
² Chemistry Department, Durham University, Durham, United Kingdom
-
- I-6 PHOTOPHYSICAL PROPERTIES OF 9,9'-BIS-METHOXYPHENYL SUBSTITUTED 3,3'-BICARBAZOLES
Armands Ruduss, Kaspars Traskovskis, Valdis Kokars
 Riga Technical University, Riga, Latvia
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- I-7 FLEXIBLY BRIDGED MASSIVE AROMATIC GROUPS AS FUNCTIONAL FRAGMENTS TOWARDS SOLUTION-PROCESSABLE CYCLOMETALATED IRIIDIUM(III) COMPLEXES FOR OLED APPLICATION
Kaspars Traskovskis¹, Valdis Kokars¹, Natalija Lesina², Igors Mihailovs², Aivars Vembris²
¹Riga Technical University, Riga, Latvia;
²Institute of Solid State Physics, University of Latvia, Riga, Latvia
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- I-8 NEW TADF EMITTERS BASED ON BENZOYLPYRIDINE COMPOUNDS
Domantas Berenis, Virginijus Ruibys, Ona Adomeniene, Povilas Adomenas, Gediminas Kreiza, Saulius Jursenas, Karolis Kazlauskas
 Institute of Photonics and Nanotechnology, Vilnius University, Vilnius, Lithuania
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- I-9 PHENANTRO [9,10- D] IMIDAZOLE HOST MATERIALS FOR EFFICIENT RED TADF OLEDs
Dovydas Banevičius¹, Domantas Berenis¹, Edvinas Radiunas¹, Saulius Grigalevičius², Daiva Tavgenienė², Saulius Jursenas¹, Karolis Kazlauskas¹
¹Institute of Photonics and Nanotechnology, Vilnius University, Vilnius, Lithuania;
²Department of Polymer Chemistry and Technology, Kaunas University of Technology, Kaunas, Lithuania
-
- I-10 CONTROL OF TRIPLET STATE NON-RADIATIVE DECAY IN PENTACARBAZOLE/ARYL KETONES FOR HIGHLY EFFICIENT TADF
Gediminas Kreiza¹, Dovydas Banevičius¹, Karolina Maleckaitė¹, Justina Jovaišaitė¹, Dalius Gudeika², Dmytro Volyniuk², Juozas Vidas Grazulevicius², Saulius Jursenas¹, Karolis Kazlauskas¹
¹Institute of Photonics and Nanotechnology, Vilnius University, Vilnius, Lithuania;
²Department of Polymer Chemistry and Technology, Kaunas University of Technology, Kaunas, Lithuania
-
- I-11 DERIVATIVES OF TRI-, TETRA- PHENYLETHYLENE AND 1,8-NAPHTHALIMIDE EXHIBITING AGGREGATION INDUCED EMISSION ENHANCEMENT AS EMITTERS FOR OLEDs
Oleksandr Bezvikonnyi, Dalius Gudeika, Dmytro Volyniuk, Juozas Vidas Grazulevicius
 Department of Polymer Chemistry and Technology, Kaunas University of Technology, Kaunas, Lithuania
-
- I-12 HYBRID SOLUTION-PROCESSED OLEDs EXHIBITING HIGH-QUALITY WHITE ELECTROLUMINESCENCE
Dmytro Volyniuk¹, Karolis Leitonas¹, Jurate Simokaitiene¹, Pavel Arsenyan², Juozas Vidas Grazulevicius¹
¹Department of Polymer Chemistry and Technology, Kaunas University of Technology, Kaunas, Lithuania;
²Latvian Institute of Organic Synthesis, Riga, Latvia



- I-13** PERSISTENT BUILT-IN PHOTOACTIVITY OF SINGLE-WALL CARBON NANOTUBE FILMS
Vidmantas Jašinskas¹, Florian Oberndorfer², Tobias Hertel², Vidmantas Gulbinas¹
¹ Center for Physical Sciences and Technology, Vilnius, Lithuania;
² Physical Chemistry Department, University of Würzburg, Würzburg, Germany
-
- I-14** LIGHT NANOSCOPY FOR NATURALLY FLUORESCENT SYSTEMS
Simona Streckaitė¹, Cristian Iliaia¹, Anja Krieger-Liszky¹, Francesca Zito², Andrew Gall¹, Bruno Robert¹
¹ Institute of Integrative Biology of the Cell (I2BC), CEA/CNRS/University Paris-Sud, Gif-sur-Yvette, Cedex, France;
² Laboratoire de Biologie Physico-Chimique des Protéines Membranaires UMR 7099 – IBPC, Paris, France
-
- I-15** OPTICAL PROPERTIES AND AMPLIFIED SPONTANEOUS EMISSION OF PYRANYLIDEN MOLECULAR GLASSES IN THIN NEAT FILMS
Aivars Vembris¹, Patricija Paulsone¹, Elmars Zarins², Kristine Lazdovica², Valdis Kokars²
¹ Institute of Solid State Physics, University of Latvia, Rīga, Latvia;
² Institute of Applied Chemistry, Riga Technical University, Riga, Latvia
-
- I-16** ELUCIDATING POLYMER TRANSIENT ABSORPTION SPECTRUM FEATURES FOR OPV
José Manuel Marín Beloqui, Tracey Clarke
 University College of London (UCL), London, United Kingdom
-
- I-17** USING THZ EMISSION SPECTROSCOPY TO PROBE CHARGE GENERATION PHOTOPHYSICS
Philipp Krauspe, Julien Rehault, Natalie Banerji
 Universität Bern, Bern, Switzerland
-
- I-18** ELECTRON TRANSFER AND CHARGE TRANSPORT DYNAMICS IN ZERO DRIVING FORCE POLYMER: FULLERENE BLENDS
Rishi Shivhare¹, Gareth Moore², Yufei Zhong², Nikolaos Droseros², Frank Ortmann¹, Mike Hamsch¹, Koen Vandewal³, Natalie Banerji², Stefan Mannsfeld¹
¹ Technische Universität (TU) Dresden, Germany;
² Department of Chemistry and Biochemistry, University of Bern, Bern, Switzerland;
³ Instituut voor Materiaalonderzoek, Hasselt University, Hasselt, Belgium
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¹Institut für Physikalische und Theoretische Chemie, Universität Würzburg, Würzburg, Germany;
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¹Institut für Physikalische und Theoretische Chemie, Universität Würzburg, Würzburg, Germany;
²Zernike Institute for Advanced Materials, University of Groningen, Groningen, The Netherlands
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¹Department of Physics and Astronomy, University of Sheffield, Sheffield, United Kingdom;
²Instituto di Scienze e Tecnologie Molecolari (ISTM), Consiglio Nazionale delle Ricerche (CNR), Milan, Italy
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² Physics Department, University of Durham, Durham, United Kingdom
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¹School of Chemistry, University of St Andrews, St Andrews, United Kingdom;
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