

Detailed Program of BIOSOL 2011

1st International Conference on BioInspired Materials for Solar Energy Utilization

September 12 – 17, 2011

Chania, Crete,

Greece

Monday – September 12

12:00–18:00

Registration

17:45–18:00

Opening Ceremony

18:00–19:00

Chairpersons

Richard Eisenberg

University of Rochester, USA

Michael Grätzel

Ecole Polytechnique Fédérale, Switzerland

Opening Lecture

Harry Gray

California Institute of Technology, USA

Electron Flow through Proteins

19:00–19:30

Welcome Reception

Tuesday – September 13

Session 1

08:30–10:25

Chairpersons

Harry Gray
California Institute of Technology, USA
Joseph T. Hupp
Northwestern University, USA

08:30–09:15 **PL1** Opening
Plenary Lecture

Michael Grätzel
Ecole Polytechnique Fédérale, Switzerland
**Bio-inspired Photovoltaic and Photoelectrochemical
Devices**

09:15–09:45 **KN1** Keynote Lecture

Franco Scandola
Università di Ferrara, Italy
Self-Assembling Molecular Devices for Energy Conversion

09:45–10:05 **IL1** Invited Lecture

Elizabeth A. Gibson
University of Nottingham, UK
**Dye-sensitized Photocathodes for Solar Energy
Conversion**

10:05–10:25 **IL2** Invited Lecture

Christian Herrero
CEA, Gif-sur-Yvette, France
**Molecular Complexes for Artificial Photosynthesis.
Spectroscopic Studies Of Light-Induced Charge Separation
and Electron Transfer**

10:25–11:00

Coffee break

Session 2

11:00–12:55

Chairpersons

Stergios Logothetidis
Aristotle University of Thessaloniki, Greece
Panagiotis Lianos
University of Patras, Greece

11:00–11:45 **PL2** Plenary Lecture

Hiroshi Imahori
Kyoto University, Japan
**Rational Materials Design and Strategy for Organic
Electronics and Solar Energy Conversion**

11:45–12:15 **KN2** Keynote Lecture

Polykarpos Falaras
NCSR Demokritos, Greece
Redox-Active Electrolytes for Dye-Sensitized Solar Cells

12:15–12:35 **OP1** Oral
Presentation

Miquel Planells
University of Edinburgh, UK
**Non-fullerene based electron transport materials for
organic photovoltaics**

12:15–12:55 **IL3** Invited Lecture

Panagiotis Argitis
NCSR Demokritos, Greece
**Interface engineering in organic optoelectronic devices
using polyoxometalate electron transport layers**

12:55–14:30

Lunch

Session 3

14:30–16:15

Chairpersons

Ally Aukauloo
Université Paris Sud 11, France
Sebastiano Campagna
University of Messina, Italy

14:30–15:15 **PL3** **Plenary Lecture**

Teodor Silviu Balaban
Université Paul Cézanne Aix-Marseille III, France
**Self-assembling Chromophores for Biomimetic Dye
Aggregate Solar Cells**

15:15–15:35 **IL4** **Invited Lecture**

Ángela Sastre-Santos
Universidad Miguel Hernández, Spain
**Perylenebisimide Multifunctional Arrays in Energy and
Electron Transfer Systems**

15:35–15:55 **OP2** **Oral
Presentation**

Anastasios Keramidas
University of Cyprus, Cyprus
**Dioxygen activation by Hydroquinone/p-Semiquinone/p-
Quinone Metal Complexes**

15:55–16:15 **IL5** **Invited Lecture**

Valentine I. Vullev
University of California, USA
Bioinspired Electrets for Modulating Charge Transfer

16:15–16:45

Coffee break**Session 4**

16:45–18:50

Chairpersons

Stefan Bernhard
Carnegie Mellon University, USA
Nikos Tagmatarchis
National Hellenic Research Foundation, Greece

16:45–17:30 **PL4** **Plenary Lecture**

Taku Hasobe
Keio University / Japan Science and Technology Agency, Japan
**Construction of Supramolecular Nanoarchitectures for
Solar Energy Conversion and Optoelectronics**

17:30–17:50 **IL6** **Invited Lecture**

Siddharth Dasgupta
California Institute of Technology, USA
Global Centers for Solar Fuel and Artificial Photosynthesis

17:50–18:10 **KN3** **Keynote Lecture**

Emmanuel Kymakis
Technological Educational Institute of Crete, Greece
Organic photovoltaic devices

18:10–18:30 **OP3** **Oral
Presentation**

Dennis G. H. Hetterscheid
University of Amsterdam, The Netherlands
NHC based Iridium Catalysts for Water Oxidation

18:30–18:50 **OP4** **Oral
Presentation**

Johannes G. Vos
Dublin City University, Ireland
**The Design of New Photocatalysts for Solar Driven
Generation of Hydrogen from Water**

Wednesday – September 14

Session 5

08:30–10:25

Chairpersons

Michael D. Ward
University of Sheffield, UK

08:30–09:15 **PL5** Plenary Lecture

Richard Eisenberg
University of Rochester, USA
The light driven generation of hydrogen from water: New developments, strategies and results

09:15–09:45 **KN4** Keynote Lecture

Sebastiano Campagna
University of Messina, Italy
Ru(II) dendrimers as photosensitizers for photoinduced water oxidation schemes

09:45–10:05 **KN5** Keynote Lecture

Thierry Tron
CNRS, Aix-Marseille Université, France
Photoinduced Multi-Electron Transfer to a Multicopper Oxidase Resulting in Dioxygen Reduction into Water

10:05–10:25 **OP5** Oral Presentation

T. Don Tilley
University of California / Lawrence Berkeley National Laboratory, USA
Proton Reduction Catalysts based on Hydrogenase Models with Rigid Naphthalene-1,8-dithiolate and Benzenedithiolate Ligands

10:25–11:00

Coffee break

Session 6

11:00–12:55

Chairpersons

Hiroshi Imahori
Kyoto University, Japan
Franco Scandola
Università di Ferrara, Italy

11:00–11:45 **PL6** Plenary Lecture

Edwin Constable (by Biljana Bozic-Weber)
University of Basel, Switzerland

11:45–12:15 **KN6** Keynote Lecture

Panagiotis Lianos
University of Patras, Greece
Photoactivated fuel cells. An alternative source of electricity that consumes water soluble wastes

12:15–12:35 **OP6** Oral Presentation

Marios Stylianou
University of Cyprus, Cyprus
Photoinduced Synthesis of Hydrogen Peroxide by Redox-active p-Quinone Metal Complexes

12:15–12:55 **IL7** Invited Lecture

Xichuan Yang
Dalian University of Technology (DUT), China
Non-iodine Redox Couples for Dye-sensitized Solar Cells

12:55–14:30

Lunch

Session 7		14:30–16:15	
	Chairpersons		Panagiotis Argitis NCSR Demokritos, Greece Siddharth Dasgupta California Institute of Technology, USA
14:30–15:15	PL7	Plenary Lecture	Stefan Bernhard Carnegie Mellon University, USA Light Driven Generation of Hydrogen from Water: Thermodynamics, Tactics, and Recent Results
15:15–15:35	IL8	Invited Lecture	Ally Aukauloo Université Paris Sud 11, France Molecular Complexes for Artificial Photosynthesis
15:35–15:55	OP7	Oral Presentation	Pankaj Misra Raja Ramanna Centre for Advanced Technology, India Natural Chlorophyll Impregnated Nanocrystalline ZnO Films for Dye-sensitized Solar Cell Application
15:55–16:15	IL9	Invited Lecture	Lara Halaoui American University of Beirut, Lebanon Amplification of Solar Energy Conversion at Quantum Dot sensitized TiO₂ Inverse Opals and Disordered Films by Slow Light Effects
16:15–16:45		Coffee break	
Session 8		16:45–18:50	
	Chairpersons		Teodor Silviu Balaban Université Paul Cézanne Aix-Marseille III, France Polykarpos Falaras NCSR Demokritos, Greece
16:45–17:30	PL8	Plenary Lecture	Stergios Logothetidis Aristotle University of Thessaloniki, Greece Optimizing the performance & lifetime of flexible Organic Photovoltaics
17:30–17:50	IL10	Invited Lecture	Curtis P. Berlinguette University of Calgary, Canada Rapid Water Oxidation by Single-Site Cobalt Catalysts
17:50–18:10	IL11	Invited Lecture	Valerio Dallacasa Istituto Interdisciplinare Beniamino Segre / University of Verona, Italy Multi-oscillator model for charge transfer dynamics in sensitized solar cells
18:15–19:30		Poster Session and Beer Party	

Thursday – September 15

Session 9

08:30–10:25

Chairpersons

Jarl Ivar van der Vlugt
University of Amsterdam, The Netherlands
Anastasios Keramidas
University of Cyprus, Cyprus

08:30–09:15 **PL9** Plenary Lecture

Dirk Guldi
Friedrich-Alexander-University of Erlangen-Nuremberg,
Germany
**Carbon Leaves – Artificial Photosynthesis Based on Low
Dimensional Carbons**

09:15–09:45 **KN7** Keynote Lecture

Julia Weinstein
University of Sheffield, UK
**Ultrafast Dynamics of Photoinduced Charge Transfer in
Pt^{II} Chromophores: a Transient Absorption, TRIR and 2DIR
Insight**

09:45–10:05 **IL12** Invited Lecture

Urša Opara Krašovec
University of Ljubljana, Slovenia
LPVO activities in DSSC technology

10:05–10:25 **OP8** Oral
Presentation

Athanassios I. Philippopoulos
University of Athens, Greece
**Development of ruthenium sensitizers for Dye Sensitized
Solar Cells**

10:25–11:00

Coffee break

Session 10

11:00–12:55

Chairpersons

Licheng Sun
Royal Institute of Technology (KTH) / Dalian University of
Technology (DUT), Sweden / China
Timofei Privalov
Stockholm University, Sweden

11:00–11:45 **PL10** Plenary Lecture

Tetsuro Majima
Osaka University, Japan
Charge Transfer in DNA

11:45–12:15 **KN8** Keynote Lecture

Elias Papaconstantinou
NCSR Demokritos, Greece
**Photoactivated fuel cells. An alternative source of
electricity that consumes water soluble wastes**

12:15–12:35 **IL13** Invited Lecture

Alexander H. Shelton
University of Sheffield, UK
Europium(III) sensitization by 1,8-naphthalimide

12:15–12:55 **OP9** Oral
Presentation

Tarek Ghaddar
American University of Beirut, Lebanon
**New Organic Redox Couple and Counter Electrode
Material for Efficient Dye Sensitized Solar Cells**

12:55–14:30

Lunch

Session 11

14:30–16:15

Chairpersons**Nikolai V. Tkachenko**

Tampere University of Technology, Finland

Thierry Tron

CNRS, Aix-Marseille Université, France

14:30–15:15 **PL11** **Plenary Lecture****Daniel Gryko**

Institute of Organic Chemistry of the Polish Academy of Sciences, Poland

Light-harvesting systems based on meso-substituted corroles-synthesis and properties15:15–15:35 **OP10** **Oral Presentation****Günther Knör**

Johannes Kepler University Linz (JKU), Austria

Novel Sensitizers for Artificial Photosynthesis and Biomimetic Multielectron Transfer Photocatalysis15:35–15:55 **OP11** **Oral Presentation****Sofia Derossi**

University of Amsterdam, The Netherlands

Supramolecular Photocatalysis: H₂-evolving assemblies based on Fe-Fe Hydrogenase15:55–16:15 **IL14** **Invited Lecture****Panagiotis E. Keivanidis**

Istituto Italiano di Tecnologia, Italy

Electron-exchange assisted photon energy up-conversion in thin films of π -conjugated polymeric composites

16:15–16:45

Coffee break**Session 12**

16:45–18:50

Chairpersons**Shunichi Fukuzumi**

Osaka University / Ewha Womans University, Japan / Korea

Tomás Torres

Universidad Autónoma de Madrid / IMDEA Nanociencia, Spain

16:45–17:30 **PL12** **Plenary Lecture****Michael D. Ward**

University of Sheffield, UK

Transition metal chromophores as sensitizers for lanthanide luminescence in d/f hybrid complexes17:30–17:50 **IL15** **Invited Lecture****Mei Wang**

Dalian University of Technology, China

A Series of Multielectron Transformation Templates Relevant to the FeFe-Hydrogenase Active Site17:50–18:10 **OP12** **Oral Presentation****Kalman Toth**

UMR CNRS-UdS 7504, Strasbourg, France

Fullerene-based photoactive liquid crystal dyads18:10–18:30 **OP13** **Oral Presentation****Elena E. Ferapontova**

Aarhus University, Denmark

Application of Bacterial Laccases for Sustainable Energy Production

20:30

Gala Dinner

Friday – September 16

Session 13

08:30–10:25

Chairpersons

Taku Hasobe

Keio University / Japan Science and Technology Agency, Japan

Tetsuro Majima

Osaka University, Japan

08:30–09:15 **PL13** Plenary Lecture

Shunichi Fukuzumi

Osaka University / Ewha Womans University, Japan / Korea

Bioinspired Artificial Photosynthesis

09:15–09:45 **KN9** Keynote Lecture

Nikolai V. Tkachenko

Tampere University of Technology, Finland

Photoinduced Electron Transfer in Porphyrin Based Donor-Acceptor Compounds: From Solutions to Organized Films

09:45–10:05 **IL16** Invited Lecture

Fei Li

Dalian University of Technology (DUT), China

Highly Efficient Chemical and Electrochemical Water Oxidation by Molecular Ruthenium Catalysts

10:05–10:25 **IL17** Invited Lecture

Eugen Stulz

University of Southampton, UK

Bioinspired chromophore arrays based on DNA scaffolds

10:25–11:00

Coffee break

Session 14

11:00–12:55

Chairpersons

Dirk Guldi

Friedrich-Alexander-University of Erlangen, Germany

Elias Papaconstantinou

NCSR Demokritos, Greece

11:00–11:45 **PL14** Plenary Lecture

Licheng Sun

Royal Institute of Technology (KTH) / Dalian University of Technology (DUT), Sweden / China

Bio-inspired Molecular Catalysts for Visible Light Driven Water Oxidation and Hydrogen Generation

11:45–12:15 **KN10** Keynote Lecture

Timofei Privalov

Stockholm University, Sweden

Mono- and Bi-Nuclear Pathways of Catalytic Water Oxidation: an Involvement of Lewis Acid-Lewis Base Cooperation and Radical Coupling

12:15–12:35 **IL18** Invited Lecture

Theresa M. McCormick

University of Toronto, Canada

Activity and Stability of Cobaltoxime Catalyzed Proton Photoreduction

12:15–12:55 **OP14** Oral Presentation

Elisabetta Iengo

University of Trieste, Italy

Aluminium Pyridyl Porphyrins: versatile platforms for selfassembling of electron transfer photosystems

12:55–14:30 **Lunch**

Session 15

14:30–16:15

Chairpersons

Daniel Gryko

Institute of Organic Chemistry of the Polish Academy of Sciences, Poland

Julia Weinstein

University of Sheffield, UK

14:30–15:15 **PL15** **Plenary Lecture**

Tomás Torres

Universidad Autónoma de Madrid / IMDEA Nanociencia, Spain

Phthalocyanines for Molecular Photovoltaics

15:15–15:35 **IL19** **Invited Lecture**

Jarl Ivar van der Vlugt

University of Amsterdam, The Netherlands

Toward Artificial Photosynthetic Devices

15:35–15:55 **IL20** **Invited Lecture**

Gema de la Torre

Universidad Autónoma de Madrid, Spain

Novel approaches to phthalocyanine-SWNT and phthalocyanine-graphene hybrid ensembles

Workshop

17:00–20:30

Renewable Energy Sources: Industry – Academia cooperation

17:00–17:15

Opening and Introduction

17:15–18:15

Presentation of RES projects by the University of Crete, the Technical University of Crete, the Technological Educational Institute of Crete, the Science Technology Park of Crete and the Regional Energy Agency of Crete.

17:15–18:45

International experiences: The case of Samsøe island, Denmark (Dr. Jan Jansen, Director, Samsøe Energy Agency)

18:45–19:00

Coffee break

19:00–20:00

Presentation of RES companies

20:00–20:30

Discussion

Poster Abstract List

- P 01 Nina Chadwick (*The University of Edinburgh, Edinburgh, UK*), Lesley J. Yellowlees, Neil Robertson
Asymmetric Ruthenium Dyes for Dye-Sensitised Solar Cells
- P 02 Tracy Hewat (*University of Edinburgh, EaStCHEM School of Chemistry, Edinburgh, UK*), Lesley Yellowlees, Neil Robertson
Heteroleptic Copper(I) Dyes for DSSCs
- P 03 Yaobin Yang, Lin Xu (*Key Laboratory of Polyoxometalates, Science of Ministry of Education, College of Chemistry, Northeast Normal University, Changchun, China*)
Enhanced light-to-electricity conversion by incorporating polyoxometalate into Alcian blue dye (porphyrin-like) film
- P 04 Constantinos J. Milios (*Department of Chemistry, The University of Crete, Herakleion, Greece*), Andreas Flamourakis, Milosz Siczek, Tadeusz Lis
Synthetic Models of the OEC: The First Amino Acid Bound Manganese-Calcium Cluster
- P 05 Celso Gomez, Stepan Shipovskov (*Interdisciplinary Nanoscience Center (iNANO), Faculty of Science, Aarhus University, Århus, Denmark*), Elena E. Ferapontova
Peroxidase Biocathodes for a Biofuel Cell Development
- P 06 Gugu Msane (*University of Johannesburg, Johannesburg, South Africa*), R. W. Krause, Gugu Msane
The Synthesis and Study of Modified Chlorophylls-carbon Nanotubes Photoactive Dyads
- P 07 Nikos B. Arampatzis (*Chemistry Department, University of Cyprus, Nicosia, Cyprus*), Elias Stathatos, Panagiotis Lianos, Anastasios D. Keramidas
Synthesis and characterization of mononuclear Eu(III) complexes with 1,2,4-triazine derivatives – Enhanced of luminescence properties
- P 08 Marek Grzybowski (*Institute of Organic Chemistry of Polish Academy of Sciences, Warsaw, Poland*), Joanna Piechowska, Daniel T. Gryko
The synthesis and spectroscopic properties of 10-hydroxybenzo[h]quinoline derivatives
- P 09 Nikolaos Balis (*Engineering Science Dept., University of Patras, Patras, Greece*), Panagiotis Lianos
Solid-state hybrid solar cells based on nanocrystalline titania, CdS quantum dots and poly(3-hexylthiophene)
- P 10 Theresa M. McCormick (*University of Toronto, Toronto, Ontario, Canada*), Ashlee A Jahnke, Dwight S. Seferos
Redox-Active Tellurophenes for Energy Applications
- P 11 Ahmet N. Cankut (*Department of Chemistry, University of Sheffield, Sheffield, UK*), Daniel Sykes, Michael D. Ward
Sensitised Luminescence via d to f Energy Transfer in Iridium (III) and Lanthanide (III) Systems

- P 12 Michail J. Beliatis (*Nano-Electronics Center, Advanced technology Institute, University of Surrey, Surrey, UK*), Simon J. Henley, S. Ravi P. Silva
Laser Nanostructured Substrates for Plasmonic Organic Photovoltaics
- P 13 Takao Sakuma (*Department of Chemistry, Faculty of Science and Technology, Keio University, Yokohama, Japan*), Hayato Sakai, Tomoaki Miura, Taku Hasobe
Preparation and Photophysics of Metal-Coordination Assisted Porphyrin Nanorods with Controlled Variable Aspect Ratios
- P 14 Sunao Hirayama (*Department of Chemistry, Faculty of Science and Technology, Keio University, Yokohama, Japan*), Hayato Sakai, Tomoaki Miura, Taku Hasobe
Systematic syntheses and photophysical properties of new coronene derivatives for solar energy conversion
- P 15 Anne-Christine Chamayou (*Department of Chemistry, University of Basel, Basel, Switzerland*), Edwin C. Constable, Catherine E. Housecroft
Synthesis and characterization of 4,4'-disubstituted-2,2'- bipyridine ruthenium(II) complexes relevant to solar energy conversion
- P 16 Peter Kopecky (*Department of Chemistry, University of Basel, Basel, Switzerland*), Biljana Bozic-Weber, Edwin C. Constable, Catherine E. Housecroft
Copper(I)-complexes for Dye Sensitized Solar Cells
- P 17 Dimitra G. Georgiadou (*Institute of Microelectronics, NCSR Demokritos / Department of Chemical Engineering, National Technical University of Athens, Athens, Greece*), Leonidas C. Palilis, Maria Vasilopoulou, George Pistolis, Dimitra Dimotikali, Panagiotis Argitis
Improved performance PLEDs by controlling charge distribution via sulfonium salt addition in the emitting layer
- P 18 A. Mantalidi, M. Vasilopoulou, A. M. Douvas, D. G. Georgiadou, L. C. Palilis, T. Lazarides, A.G. Coutsolelos, P. Argitis (*Institute of Microelectronics, National Centre for Scientific Research "Demokritos", Athens, Greece*)
Water-soluble porphyrin thin films as electron injection layers in organic light emitting diodes
- P 19 Maria-Eleni Ragoussi (*Universidad Autónoma de Madrid, Departamento de Química Orgánica, Madrid, Spain*), Gema de la Torre, Tomás Torres
Covalent functionalization of carbon nanostructures with phthalocyanines
- P 20 Georgia Pagona (*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*), Galateia E. Zervaki, Atula S. D. Sandanayaka, Taku Hasobe, Athanassios G. Coutsolelos, Nikos Tagmatarchis
Carbon nanohorns and dimer porphyrin conjugates in a photoelectrochemical cell construct. Preparation, characterization and photophysical properties evaluation
- P 21 Nikolaos Karousis (*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*), Taku Hasobe, Nikos Tagmatarchis
Soluble Functionalized Graphene Oxide Sheets with Porphyrin. Synthesis, Characterization and Photophysical Studies

- P 22 Georgios Rotas (*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*), Andreas Gouloumis, Axel Kahnt, Nazario Martin, Dirk M. Guldi, Nikos Tagmatarchis
Azafullerene-Extended Tetrathiafulvalene Dyad: Synthesis and Investigation of Intramolecular Electronic Communication
- P 23 Georgios Rotas (*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*), Marja Niemi, Jenni Ranta, Alexander Efimov, Helge Lemmetyinen, Nikolai Tkachenko, Nikos Tagmatarchis
Azafullerene C₅₉N – Phthalocyanine Dyad: Synthesis, Characterization and Photoinduced Electron Transfer
- P 24 Demetrios D. Chronopoulos (*Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Athens, Greece*), Solon P. Economopoulos, Nikos Tagmatarchis
Exfoliation and Functionalization of Graphene: Donor-Acceptor Hybrids Managing Charge-Transfer Processes
- P 25 M. Stylianakis (*Center of Materials Technology & Photonics, Technological Educational Institute of Crete / Department of Chemistry, University of Crete, Heraklion, Crete, Greece*), G. Spyropoulos, E. Stratakis, E. Koudoumas, S. Anastasiadis, E. Kymakis
Functionalized Graphene Oxide linked with Small Molecule as Electron Acceptor: Synthesis, Characterization, Photophysics and Photovoltaics
- P 26 G.D. Spyropoulos (*Electrical Engineering Department & Center of Advanced Materials and Photonics, Technological Educational Institute of Crete / Materials Science and Technology Department, University of Crete, Heraklion, Crete, Greece*) M.M. Stylianakis, E. Stratakis, E. Kymakis
Incorporation of Au Nanoparticles in Bulk Heterojunction Organic Photovoltaic Devices
- P 27 Athanassios Zarkadoulas, Eugenia Koutsouri, Christina Kefalide, Christiana A. Mitsopoulou (*Inorganic Chemistry Laboratory, Department of Chemistry, University of Athens, Athens, Greece*)
New Aspects on bridged bimetallic diimine-dithiolate chromophores and solar hydrogen production
- P 28 C. Koidis (*Laboratory for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece*), C. Kapnopoulos, P. G. Karagiannidis, D. Georgiou, C. Pitsalidis, S. Kassavetis, N. Kalfagiannis, A. Laskarakis, N. A. Hastas, S. Logothetidis
Insights on the properties of sheet-to-sheet and roll-to-roll gravure printed PEDOT:PSS and P3HT:PCBM thin films for organic photovoltaics
- P 29 P.G. Karagiannidis (*Lab for Thin Films - Nanosystems & Nanometrology, Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece*), N. Kalfagiannis, D. Georgiou, C. Pitsalidis, S. Logothetidis
Investigation of phase separation in P3HT:PCBM photovoltaic devices by Atomic Force Microscopy and Spectroscopic Ellipsometry
- P 30 Marc Rudolf (*Friedrich-Alexander-University of Erlangen-Nuremberg, Department of Chemistry and Pharmacy, Erlangen, Germany*), Silke Wolfrum, Dirk M. Guldi, Feng Lai, Takeshi Akasaka
A Paradigm Change – Linking Fullerenes to Electron Acceptors

- P 31 Georgios Katsukis (*Friedrich-Alexander-University of Erlangen-Nuremberg, Department of Chemistry and Pharmacy, Erlangen, Germany*), Jenny Malig, Dirk M. Guldi
Towards Combining Graphene and QDs – Assembling CdTe QDs around Graphene
- P 32 Carlos Romero-Nieto (*Friedrich-Alexander-Universität Erlangen-Nürnberg, Department Chemie und Pharmazie, Erlangen, Germany*), Anaïs Medina, Julia Guilleme, David González-Rodríguez, Tomas Torres, Carmen Villegas, Juan Luis Delgado, Agustin Molina, Nazario Martín, Dirk M. Guldi
Subphthalocyanines as electron acceptor in electron donor-acceptor conjugates – a photophysical study
- P 33 Chien-Yi Yu, Sandeep B. Mane, Ram Ambre, Li-Yang Lo, Eric Wei-Guang Diao, Ching-Fa Yao, Chen-Hsiung Hung (*Department of Chemistry, National Taiwan Normal University, Taipei, Taiwan*)
Evaluation on Using Five Coordinated Zinc Oxaporphyrin as the Sensitizing Dye for DSSC
- P 34 Christina Stangel (*Laboratory of BioInorganic Chemistry, Department of Chemistry, University of Crete, Heraklion, Crete, Greece*), Georgios Charalambidis, Theodore Lazarides, Athanassios G. Coutsolelos*
Synthesis and photophysical studies of a porphyrin-ruthenium(II) tris(bipyridine) complex for potential use in DSSCs
- P 35 Theodore Lazarides (*Department of Chemistry, University of Crete, Heraklion, Crete, Greece*), Georgios Charalambidis, Alexandra Vuillamy, Marius Reglier, Emmanuel Klontzas, Georgios Froudakis, Susanne Kuhri, Dirk M. Guldi*, Athanassios G. Coutsolelos*
Bodipy–Porphyrin Dyads Connected via a Cyanuric Chloride Bridge: Synthesis, Electrochemical and Photophysical Study
- P 36 Theodore Lazarides (*Department of Chemistry, University of Crete, Heraklion, Crete, Greece*), Manas K. Panda, Georgios Charalambidis, Susanne Kuhri, Dirk M. Guldi*, Athanassios G. Coutsolelos*
An Array of Chromophores consisting of Porphyrin and Bodipy linked via a Sn(IV) metal center: Structure, Electrochemistry, Photophysics and Theoretical Study
- P 37 Kalliopi Ladomenou (*Laboratory of BioInorganic Chemistry, Department of Chemistry, University of Crete, Heraklion, Crete, Greece*), Georgios Charalambidis, Dimitra Daphnomili, Athanassios G. Coutsolelos*
Synthesis of porphyrin-based sensitizers for solar cell application
- P 38 Georgios Charalambidis (*Chemistry Department, University of Crete, Heraklion, Crete, Greece*), Emmanouil Kasotakis, Theodore Lazarides, Anna Mitraki,* Athanassios G. Coutsolelos*
Self-Assembly Into Spheres of Hybrid Diphenylalanine–Porphyrin Compounds: Increased Fluorescence Lifetime and Conserved Electronic Properties
- P 39 Dimitra Daphnomili (*Chemistry Department, University of Crete, Heraklion, Crete, Greece*), Georgios Charalambidis, Theodore Lazarides, Georgios Landrou, Agnieszka Nowak-Król, Daniel T. Gryko, Susanne Kuhri, Dirk M. Guldi*, Athanassios G. Coutsolelos*
Supramolecular assembly of porphyrin and corrole with a cobaloxime catalyst. Photophysics and H₂ evolution
- P 40 Manas K. Panda (*Laboratory of BioInorganic Chemistry, Department of Chemistry, University of Crete, Heraklion, Crete, Greece*), Theodore Lazarides, Georgios Charalambidis, G. D. Sharma, Athanassios G. Coutsolelos*
Syntheses and Photophysical Studies of A₂B₂ Type Porphyrins Containing Donor-Acceptor Groups for DSSC Applications