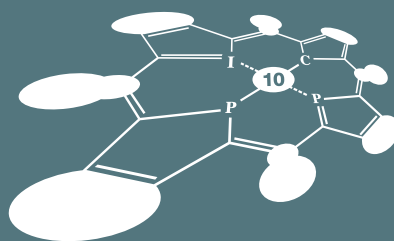




TENTH INTERNATIONAL CONFERENCE on
PORPHYRINS & PHTHALOCYANINES
ICPP-10 GERMANY **Munich** | JULY 1-6
2018

scientific program



icpp-spp.org | spp-jpp.org



**THE INTERNATIONAL CONFERENCE on
PORPHYRINS & PHTHALOCYANINES
THE ICPP-10 Munich 2018**

Organized by

Society of Porphyrins and Phthalocyanines (SPP)

Scope of the Conference

All aspects of porphyrins, phthalocyanines and related macrocycles will be discussed in the form of Plenary Lectures, Oral and Poster presentations over the full five-day period of the meeting. Five scientists will be honored by Lifetime Achievement Awards in 2018 and three JPP/SPP Young Investigator Awards will also be presented at the meeting. In addition, the John Shelnutt Young Investigator Award will be presented again in 2018. All awards will be accompanied by highlighted award lectures.

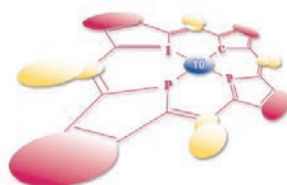
Co-chairs

Dirk M. Guldi

Friedrich-Alexander Universität Erlangen-Nürnberg
91058 Erlangen, Germany

Norbert Jux

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91058 Erlangen, Germany



SPP website <https://spp-jpp.org>

ICPP-10 website <http://www.icpp-spp.org>

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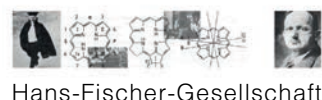
scientific program

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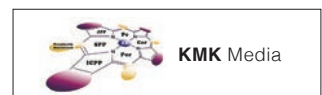
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Sunday, July 1, 2018, PM

Conference Registration Room "Amsterdam"

12:00 to 22:00

"The Westin Grand Munich" (in lobby across from hotel reception)

Welcome Reception Terrace "Terrassengeschoß"



19:00 to 22:00

"The Westin Grand Munich"

19:30 to 20:00

Piano recital by David Schuster - Room "Ballsaal"

(program will be distributed during the Welcome Reception)

Monday, July 2, 2018, AM

MONDAY

Opening Ceremony Room "Ballsaal"

08:15 to 08:30

S46 Plenary Lecture Room "Ballsaal"

Chaired by Norbert Jux

08:30 to 09:30

Eiichi Nakamura (Department of Chemistry, The University of Tokyo, Tokyo, Japan)
Nano Science Explored with Porphyrins

09:30 to 10:00

Coffee Break

S01 Corroles

Room "Garmisch"

Chaired by Sara Nardis and Roberto Paolesse

10:00 to 10:20

Penelope Brothers (School of Chemical Sciences, University of Auckland, Auckland, New Zealand)
Corrole and Calixphyrin as Ligands for Boron

10:20 to 10:40

Gabriel Canard (Centre Interdisciplinaire de Nanosciences de Marseille, Aix-Marseille University, Marseille, France), Simon Pascal, Michel Giorgi, Olivier Siri
Synthesis and Characterization of *meso*-Ethynyl Corroles Derivatives

10:40 to 11:00

Claude P. Gros (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Stephane Brandes, Nicolas Desbois, Valentin Quesneau, Virginie Blondeau-Patissier, Meddy Vanotti, Xiaojin Jiang, Wenqian Shan, Karl M. Kadish
Cobalt Corroles for CO Sensors

11:00 to 11:20

Sara Nardis (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Andrea Savoldelli, Gabriele Magna, Corrado Di Natale, Roberto Paolesse
Acrolein-Substituted Corrole: A New Versatile Material

11:20 to 11:40

Muniappan Sankar (Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, India), Pinky Yadav, Xiangyi Ke, Lei Cong, Karl M. Kadish
Synthesis, Spectral and Electrochemical Properties of Highly Reducible π -Extended Copper Corroles

11:40 to 12:00

Takayuki Tanaka (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan), Kento Ueta, Shota Ooi, Atsuhiko Osuka
 μ -Oxo-Bridged Dimers of Metallocorroles

12:00 to 12:20

Ravikanth Mangalampalli (Department of Chemistry, Indian Institute of Technology Bombay, Mumbai, India)
Phosphorus(V) Corroles and Core-Modified Corroles

12:20 to 12:30

David G. Churchill (Department of Chemistry, Korea Advanced Institute of Science and Technology, Daejeon, Korea), Zhan Xuan, Peter Teplitzky, Yael Diskin-Posner, Mahesh Sundararajan, Zakir Ullah, Linda J. W. Shimon, Irena Saltsman, Atif Mahammed, Monica Kosa, Muhyun Baik, Zeev Gross
Stepwise Trifluoromethylation Tuning towards Excellent P-Corrole-Based Bromide Oxidation Photocatalysis and Consideration of Gouterman Behavior through the Series

12:30 to 12:40

Giuseppe Pomarico (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Donato Monti, Martina Bischetti, Andrea Savoldelli, Frank R. Fronczek, Kevin M. Smith, Damiano Genovese, Luca Prodi, Roberto Paolesse

Silicon-Corroles

MONDAY

S06 NIR-Responsive Porphyrinoids

Room "Partenkirchen"



MONDAY

Chaired by Yoshihiro Matano, Hiroko Yamada, and Jishan Wu

10:00 to 10:20

Daniel Leznoff (Department of Chemistry, Simon Fraser University, Burnaby, Canada)
Tuning the NIR-Absorbance of Metallophthalocyanines

10:20 to 10:40

Harry Anderson (Department of Chemistry, Oxford University, Oxford, United Kingdom)
 π -Conjugated Porphyrin Arrays

10:40 to 11:00

Naoki Aratani (Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Japan),
Keiji Uehara, Peifeng Mei, Kohtaro Takahashi, Mitsuharu Suzuki, Hiroko Yamada
Benzoporphyrin-Conjugated Dyes with NIR-Absorption

11:00 to 11:20

Christian Brückner (Department of Chemistry, University of Connecticut, Storrs, USA)
Structural Variety and Utility of NIR-Absorbing Hydroporphyrin Analogues containing Non-Pyrrolic Heterocycles

11:20 to 11:40

Norbert Jux (Department of Chemistry and Pharmacy / Interdisciplinary Center for Molecular Materials, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Dominik Lungerich, Michael Ruppel, Max Martin, Helen Hölzel, David Reger
Hexabenzocoronene-Porphyrin Conjugates

11:40 to 12:00

Tetsuo Okujima (Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan)
Synthesis of Planar [34]Octaphyrin(1.0.1.0.1.0.1.0) and Core-Modified [24]Hexaphyrin(1.0.0.1.0.0)

12:00 to 12:10

Taniyuki Furuyama (Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Japan), Yusuke Miyaji, Hajime Maeda, Masahito Segi
A Light-Stable Phthalocyanine with High Ability to Generate Singlet Oxygen

12:10 to 12:20

Chihiro Maeda (Graduate School of Natural Science and Technology, Okayama University, Okayama, Japan), Mototsugu Takata, Asami Honsho, Tadashi Ema
Synthesis of Carbazole-Based Porphyrin Oligomers Showing NIR-Absorption

12:20 to 12:25

Yingying Ning (College of Chemistry and Molecular Engineering, Peking University, Beijing, China), Ji-Yun Hu, Yi-Wei Liu, Jing-Xiang Wang, Jun-Long Zhang
Design of Functional NIR Emissive Ytterbium(III) Porphyrins – Part I

S09 Novel Pyrrolic Macrocycles and Chromophores

Room "Sydney"

Chaired by John Mack and Zhen Shen

10:00 to 10:20

Kin Shiing Chan (Department of Chemistry, Chinese University of Hong Kong, Shatin, China), Wu Yang
Hydrodehalogenation of Activated Alkyl Bromides with Water Catalyzed by Rhodium Porphyrin Complex

10:20 to 10:40

Nagao Kobayashi (Department of Chemistry and Materials / Faculty of Textile Science and Technology, Shinshu University, Ueda, Japan), Takuro Ikeuchi, Mutsumi Kimura
A Metallophthalocyanine where Three Isoindole Nitrogen Atoms are Coordinated to the Central Metal Ion

10:40 to 11:00

John Mack (Department of Chemistry / Centre for Nanotechnology Innovation, Rhodes University, Grahamstown, South Africa), Gugu Kubheka, Jessica Harris, Justin Stone, Zweli Hlatshwayo, Aviwe May, Nthabeleng Molupe, Nobuhle Ndebele, Bokolombe Ngoy, Tebello Nyokong
Optical Limiting Properties of π -Extended BODIPY and azaBODIPY Dyes at 532 nm

11:00 to 11:20

Knut Rurack (Chemical and Optical Sensing Division, Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany)
Integrating BODIPY Probes with Devices for On-Site Sensing Applications

11:20 to 11:40

Zhen Shen (School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China), Lizhi Gai, Liang Jiang, John Mack, Kin Shing Chan
Low-Symmetry Porphyrin Analogues with Flexible Open-Form Dithienylethene Moieties

11:40 to 12:00

Hidemitsu Uno (Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan)
Benzene-Incorporated Porphyrinoids, Synthesis and their Properties

12:00 to 12:10

Zhikuan Zhou (School of Environmental and Chemical Engineering, Jiangsu University of Science and Technology, Zhenjiang, China), Jianping Zhou, Aihua Yuan, Zhen Shen
Naphtho[b]-Fused BODIPYs: Facile Synthesis and Photophysical Properties

12:10 to 12:20

Ewa Dudziak (Pacholska) (Department of Chemistry, University of Wrocław, Wrocław, Poland), Sandra Hojniak, Michał Szczepaniak, Agata Białońska, Lechosław Latos-Grażyński
Expanded Triphyrins – Flexible Porphyrin-Annulene Hybrids

MONDAY

12:20 to 12:25

Kosuke Oki (Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan), Masayoshi Takase, Shigeki Mori, Tetsuo Okujima, Hidemitsu Uno
Synthesis and Properties of Core-Expanded Azacoronenes

12:25 to 12:30

Samson Khene (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Zainab Makinde, Marcel Louzada, Jonathan Britton, Tebello Nyokong
Nonlinear Optical Properties of Alkyl Thiol Substituted Binuclear Phthalocyanines for Use as Optical Limiters – Part I

MONDAY

S13 Phthalocyanines and Related Systems

Room "Ballsaal"

HAMAMATSU
PHOTON IS OUR BUSINESS

Chaired by Andrew Cammidge, Giovanni Bottari, Gema de la Torre, and Tomás Torres

MONDAY

10:00 to 10:20

Yongzhong Bian (Beijing Key Laboratory for Science and Application of Functional Molecular and Crystalline Materials / Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Wenxin Lu, Mengliang Zhu, Jinghui Zhang, Chenxiang Lin

Chiral Discrimination of Diamines by a Binaphthalene Bridged Porphyrin Dimer

10:20 to 10:40

Andrew Cammidge (School of Chemistry, University of East Anglia, Norwich, United Kingdom), Daniel Gonzalez-Lucas, Shazia Soobrattee

Simple, Controlled Synthesis of Heteroleptic Porphyrin-Phthalocyanine-Porphyrin Triple Deckers

10:40 to 11:00

Athanassios Coutsolelos (Chemistry Department, University of Crete, Heraklion, Greece)

Bioinspired Solar Energy Conversion Strategies Based on Hybrid Porphyrin Derivatives

11:00 to 11:20

Mine Ince (Department of Energy Systems Engineering, Mersin University, Mersin, Turkey), Tuncay Ince, Cem Tozlu

NIR-Absorbing and Non-Aggregated Phthalocyanines for Dye Sensitized Solar Cells

11:20 to 11:40

Mikhail K. Islyaikin (Fine Organic Synthesis Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Olga N. Trukhina, Evgeniy N. Ivanov, Oskar I. Koifman, Tomás Torres

Synthesis, Structure and Coordination Properties of Hemihexaphyrazines

11:40 to 12:00

Janarthanan Jayawickramarajah (Department of Chemistry, Tulane University, New Orleans, USA), Pravin Pathak, Ryan Vik

Programmed Assembly of Fluorescent Nanostructures Composed of Host Included Porphyrins

12:00 to 12:10

Shaya Yahya Alraqa (Chemistry Department / Faculty of Science, Taibah University, Madinah, Saudi Arabia)

Synthesis, Photophysical and Photochemical Properties of Novel Phthalocyanines Substituted with Triptycene Moieties

12:10 to 12:30

Sergiu Gorun (Department of Chemistry and Biochemistry, Seton Hall University, South Orange, USA)

Bioinspired Fluoroalkyl Phthalocyanines as Catalytic Materials

S14 Optical, Electrical and Optoelectronic Phenomena in Porphyrins and Phthalocyanines

Room "Atlanta"



MONDAY

Chaired by Fernando Fernández-Lázaro and Ángela Sastre-Santos

10:00 to 10:20

Werner Blau (School of Physics / Centre for Research on Adaptive Nanostructures and Nanodevices, Trinity College Dublin, Dublin, Ireland)

Molecular Engineering of Nonplanar and Push-Pull Porphyrin and Nanoscale Assemblies – A Linear and Nonlinear Spectroscopic and Modeling Study

10:20 to 10:40

Shahzada Ahmad (Basque Center for Materials, Applications and Nanostructures, Bilbao, Spain), Laura Calio, Jorge Follana-Berná, Samrana Kazim, Ángela Sastre-Santos

Cu(II) and Zn(II) Based Phthalocyanine as Hole Selective Layers for Perovskite Solar Cells

10:40 to 11:00

David Gonzalez Rodriguez (Department of Organic Chemistry, Autonoma University of Madrid, Madrid, Spain)

Polar Self-Organized Molecular Materials Based on Subphthalocyanines

11:00 to 11:20

Ferdinand Grozema (Department of Chemical Engineering, Delft University of Technology, Delft, Netherlands), Kevin Felter, Yaroslav Aulin, Maria Fravventura, Tom Savenije

Effect of Intermolecular Interactions on Excited State Dynamics in Aromatic Molecular Crystals

11:20 to 11:40

Tebello Nyokong (Department of Chemistry, Rhodes University, Grahamstown, South Africa)

Design of Phthalocyanines for Photoinactivation of Bacteria and Photodegradation of Pollutants

11:40 to 12:00

Iti Gupta (Chemistry Department, Indian Institute of Technology Gandhinagar, Gandhinagar, India), Vijayalakshmi Pandey, Praseetha E. Kesavan, Naresh Balsukuri, Sudipta Das

Donor-Acceptor Systems of Porphyrins and Corroles

12:00 to 12:05

Kutloano Edward Sekhosana (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Tebello Nyokong

The Optical Limiting Applicability of Blue Lanthanide Double-Decker Phthalocyanines at 532 nm – Part I

12:05 to 12:10

Anna Filippova (Department of Inorganic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Serafima Znoyko, Tatyana Tikhomirova, Vladimir Maizlish, Artur Vashurin

Synthesis and Fluorescence Properties of Tetra-(4-tert-butyl-5-phenylsulfonyl)phthalocyanines

12:10 to 12:15

Njemuwa Nwaji (Department of Chemistry, Rhodes University, Grahamstown, South Africa), John Mack, Tebello Nyokong

Enhanced Nonlinear Optical Responses in Benzothiazole Substituted Ball-Type Phthalocyanines in the Presence of Metallic Nanoparticles – Part I

12:15 to 12:20

Jenya Vestfrid (Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Canada), Timothy Bender

Asymmetric Silicon Phthalocyanines – Part I

12:20 to 12:25

Kim Winterfeld (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Ettore Fazio, Gema de la Torre, Dirk M. Guldi, Tomás Torres

An Unidirectional Charge Transfer Cascade in a Panchromatic Multiporphyrinoid Ensemble – Part I

12:25 to 12:30

Anna Zieleniewska (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Shannon R. Harper, Dennis P. Arnold, Dirk M. Guldi

Meso-meso Two-Atom-Bridged Diporphyrins: A Short Story of Electronic Communication Discrepancy – Part I

S33 New Frontiers in Porphyrin Triplet State Photophysics

Room "Barcelona"



MONDAY

Chaired by Michael Therien

10:00 to 10:20

Atsuhiko Osuka (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan),
Kenichi Kato, Daiki Shimizu
Stable Porphyrinoid Radicals

10:20 to 10:40

Jaehong Park (Department of Molecular Engineering, Kyoto University, Kyoto, Japan), Tae-Hong Park, Michael Therien
Solvent Polarity Dependent Excited-State Dynamics of Porphyrin Structures

10:40 to 11:00

Jessica Golden (Department of Chemistry, University of Southern California, Los Angeles, USA), Abigail Tadle, Peter Djurovich, Laura Estergreen, Ali Akil, Stephen Bradforth
Dipyrrin and Dipyrrolylmethene Complexes for Photovoltaics

11:00 to 11:05

Thiago Teixeira Tasso (Fundamental Chemistry Department / Chemistry Institute, University of Sao Paulo, Sao Paulo, Brazil), Jan C. Schlothauer, Helena C. Junqueira, Tiago A. Matias, Koiti Araki, Érica L. Salvador, Paula H. de Mello, Mauricio S. Baptista
Photobleaching Mechanism of Porphyrazine Photosensitizers *via* Electron Transfer with the Solvent

11:05 to 11:15

Martina Vermathen (Department of Chemistry and Biochemistry, University of Bern, Bern, Switzerland), Ilche Gjuroski, Sara Pfister, Eleftheria Grousi, Nicolas Schnidrig, Gaëlle Diserens, Peter Vermathen, Julien Furrer
Impact of Polymer Encapsulation on the Properties of Chlorin e6-Based Photosensitizers and their Cell Uptake

11:15 to 11:35

Paul Angiolillo (Department of Physics, Saint Joseph's University, Philadelphia, USA)
Tailoring Spin Distributions in Ethynyl-Elaborated and Ethynyl-Bridged Porphyrin Arrays

11:35 to 11:55

Christiane Timmel (Department of Chemistry / Centre for Advanced Electron Spin Resonance, University of Oxford, Oxford, United Kingdom), Sabine Richert, Claudia Tait, Gabriel Moise, George Bullard, Jeff Rawson, Paul Angiolillo, Michael Therien, Harry Anderson
Triplet State Delocalisation in Porphyrin Arrays

Monday, July 2, 2018, PM

S04 SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids Room "Atlanta"



Chaired by Atsuhiko Osuka, Salomé Rodríguez Morgade, and Soji Shimizu

14:00 to 14:20

Timothy Bender (Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Canada)
Advances in Fluorinated / Chlorinated Boron Subphthalocyanines (BsubPcs) and Subnaphthalocyanines (BsubNcs) Enabled by the Exploration of their Base Chemistry and their Application in Organic Photovoltaics

14:20 to 14:40

Daiki Kuzuhara (Faculty of Science and Engineering, Iwate University, Morioka, Japan), Songlin Xue, Naoki Aratani, Hiroko Yamada
Constructions of Dimeric Triphyrin(2.1.1) and Porphyrin(2.1.2.1) Nanobelt

14:40 to 15:00

M. Victoria Martinez-Diaz (Department of Organic Chemistry, Autonoma University of Madrid, Madrid, Spain), German Zango, Hector Carrascosa, Victor Mariñas, Jose Antonio Gonzalez, Tomás Torres
Subphthalocyanine Fused Dimer-Based Multicomponent Systems

15:00 to 15:20

Milosz Pawlicki (Department of Chemistry, University of Wrocław, Wrocław, Poland)
Acenes Fused with Oxatriphyrin(2.1.1)

15:20 to 15:40

Soji Shimizu (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Koya Uchihara, Yemei Wang, Shigeki Mori, Ko Furukawa, Hiroyuki Furuta
TTF-Annulated Subphthalocyanines and their Redox-Responsive Behaviors

15:40 to 16:00

Christopher Ziegler (Department of Chemistry, University of Akron, Akron, USA)
Isoindoline Strategies for Generating New Macrocycles and Chelates

16:00 to 16:10

Richard Decréau (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Vivian Lioret, Yann Bernhard
Subphthalocyanines Designs for *in vitro* Studies

16:10 to 16:15

Carolina S. Vinagreiro (Departamento de Química, Universidade de Coimbra, Coimbra, Portugal), Rafael T. Aroso, Luís G. Arnaut, Mariette M. Pereira
Synthesis of Subphthalocyanine Derivatives as Alternative Antibacterial Photosensitizing Agents

16:15 to 16:25

Sudhir G. Warkar (Department of Applied Chemistry, Delhi Technological University, Delhi, India)

Benziporphodimethene-Polyacrylamide/Carboxymethyl Guargum Hydrogel: Metal Ion Sensor

16:30 to 17:00

Coffee Break

MONDAY

S11 Exotic Coordination Chemistry of Porphyrinoid Systems

Room "Partenkirchen"

Chaired by Penelope Brothers and Bernard Boitrel

14:00 to 14:20

Hiroyuki Furuta (Department of Chemistry and Biochemistry, Kyushu University, Fukuoka, Japan)
N-Confused Corroles: Novel Ligands for Higher Oxidation States of Metals

14:20 to 14:40

Pierluca Galloni (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy)
Iron Ferrocenylcorrole: Access to any Fe Oxidation State in the Same Molecule

14:40 to 15:00

Abhik Ghosh (Department of Chemistry, University of Tromsø, Tromsø, Norway)
Ligand Noninnocence in Metalloporroles: Contributions from X-ray Absorption Spectroscopy

15:00 to 15:20

David Goldberg (Chemistry Department, Johns Hopkins University, Baltimore, USA), Jan Paulo Zaragoza
High-Valent Metal-Hydroxide Complexes: A Missing Link in Porphyrinoid Models

15:20 to 15:40

Lechoslaw Latos-Grazynski (Department of Chemistry, University of Wrocław, Wrocław, Poland)
Core Rearrangements of Metalloporphyrinoids

15:40 to 16:00

Christopher Lemon (Miller Institute for Basic Research in Science / Department of Molecular and Cell Biology, University of California, Berkeley, USA), David Powers, Andrew Maher, Seung Jun Hwang, Anthony Mazzotti, Daniel Nocera
Photochemical Sb-X Bond Activation with Sb(V) Corrole Complexes

16:00 to 16:10

Tomoya Ishizuka (Department of Chemistry, University of Tsukuba, Tsukuba, Japan), Yuta Saegusa, Takahiko Kojima
Substitution and Unique Dimerization of Brominated Zinc(II) Quadriply Fused Porphyrinoids

16:10 to 16:20

Olivier Siri (Centre Interdisciplinaire de Nanoscience de Marseille, Aix-Marseille University, Marseille, France)
Emerging "Pyrrole-Free" Analogues of Porphyrins

16:30 to 17:00

Coffee Break

MONDAY

S12 Corroles - Properties

Room "Sydney"

Chaired by Sara Nardis and Roberto Paolesse

14:00 to 14:20

Rui Cao (School of Chemistry and Chemical Engineering, Shaanxi Normal University, Xi'an, China)
Cobalt Corroles for Efficient Hydrogen and Oxygen Evolution Reactions

14:20 to 14:40

Corrado Di Natale (Department of Electronic Engineering, University of Rome Tor Vergata, Rome, Italy), Roberto Paolesse
Sensing with Corroles

14:40 to 15:00

Karl M. Kadish (Department of Chemistry, University of Houston, Houston, USA), Wenqian Shan, Eric Van Caemelbecke, Zhongping Ou
Understanding Cobalt Corrole Electrochemistry after 25 Years of Study?

15:00 to 15:20

Mikalai Kruk (Physics Department, Belarusian State Technological University, Minsk, Belarus), Wouter Maes, Roberto Paolesse
Optical Properties of Free Base Corroles Derived from Inherent Macrocycle Nonplanarity and NH-Tautomerization

15:20 to 15:40

Donato Monti (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy)
Aggregation Behaviour of Corrole Derivatives

15:40 to 16:00

Wolfgang Schöffberger (Institute of Organic Chemistry, Johannes Kepler University Linz, Linz, Austria), Sabrina Gonglach, Michael Haas, Maximilian Tiffner, Mario Waser
The Design of Highly Efficient Non-Precious Metal Catalysts for Oxygen Reduction, Oxygen Evolution and CO₂ Fixation / Reduction

16:00 to 16:10

Amir Mizrahi (Chemistry Department, Nuclear Research Center Negev, Beer-Sheva, Israel), Susovan Bhowmik, Monica Kosa, Natalia Fridman, Magal Saphier, Amnon Stanger, Zeev Gross
The Antiaromatic Cyclooctatetraene (COT) Bridge in Bimetallic Corroles: Isolating or Conjugating?

16:10 to 16:20

Joshua Telser (Department of Biological, Chemical and Physical Sciences, Roosevelt University, Chicago, USA), Azar Alibadi, Alexander Schnegg, Karsten Holldack, J. Krzystek, Sebastian Stoian, Zachary Tonzetich, Kolle Thomas, Abhik Ghosh
Advanced Paramagnetic Resonance Studies on High-Oxidation State Iron Corroles

16:20 to 16:25

Beatrice Berionni Berna (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Benedikt Platzer, Maximilian Wolf, Pierluca Galloni, Sara Nardis, Dirk M. Guldi, Tomás Torres, Roberto Paolesse

Design and Synthesis of New Phthalocyanine-Corrole Hybrid Conjugates – Part I

16:25 to 16:30

Nikolay Semenishyn (A.V. Bogatsky Physico-Chemical Institute of the National Academy of Sciences of Ukraine, Odessa, Ukraine), Natalya Rusakova

Synthesis and Luminescent Features of A₂B-Corroles, Lanthanide Complexes on their Base and their Structural Isomers

16:30 to 17:00

Coffee Break

S16 Chirality and Spatially Pre-Organized Multi-Porphyrinoids Room "Barcelona"



MONDAY

Chaired by Nathalie Solladié and Victor Borovkov

14:00 to 14:20

Bo Albinsson (Department of Chemistry and Chemical Engineering, Chalmers University of Technology, Gothenburg, Sweden), Victor Gray, Fredrik Edhborg, Betül Küçüköz, Kasper Moth-Poulsen, Maria Abrahamsson
Towards Diffusion-Free Triplet-Triplet Annihilation Photon Up-Conversion

14:20 to 14:40

Gema de la Torre (Department of Organic Chemistry, Autònoma University of Madrid, Madrid, Spain), Ettore Fazio, Miguel Ángel Revuelta-Maza, Tomás Torres
Phthalocyanine-Based M_2L_3 Metalloorganic Helicate as Host for Electroactive Molecules

14:40 to 15:00

Emma Gallo (Department of Chemistry, University of Milan, Milan, Italy), Daniela Intrieri, Caterina Damiano, Roberto Paolesse, Mariano Venanzi, Donato Monti, Marco Savioli
Unsymmetrical *meso*-Substituted Porphyrins: From Catalysts to Chemosensors

15:00 to 15:20

Jonathan Hill (Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Japan), Shinsuke Ishihara, Jan Labuta, Yongshu Xie, Francis D'Souza, Katsuhiko Ariga
Sensing and Photochemistry in Oxoporphyrinogens

15:20 to 15:40

Jun-ichiro Setsune (Department of Chemistry / Graduate School of Science, Kobe University, Kobe, Japan), Daiki Saito, Chaolu Eerdun
Hexapyrrolic Helicates: Induction of Helical Sense Bias and Switching of Chiroptical Properties

15:40 to 16:00

Eugen Stulz (School of Chemistry, University of Southampton, Southampton, United Kingdom)
DNA Based Multi-Porphyrin Systems: From Light Pipes to Membrane Anchors

16:00 to 16:05

Risa Watanabe (Department of Chemistry, Tokyo Metropolitan University, Hachi-Oji, Japan), Ken-ichi Sugiura
A Chiral Porphyrin Dimer and its Chiroptical Properties

16:30 to 17:00

Coffee Break

S28 Biomimetic Solar Conversion

Room "Ballsaal"



Chaired by Ally Aukauloo and Fabrice Odobel

14:00 to 14:20

Anthony Harriman (Molecular Photonics Laboratory, Newcastle University, Newcastle upon Tyne, United Kingdom), Raymond Ziessel

Artificial Light-Harvesting Antennae Based on Pyrrole-Derived Building Blocks

14:20 to 14:40

Taku Hasobe (Department of Chemistry, Faculty of Science and Technology, Keio University, Yokohama, Japan)

Construction and Photoinduced Processes of *meso*- and *macro*-Scale Supramolecular Assemblies of Porphyrin Derivatives

14:40 to 15:00

Jean-François Nierengarten (Laboratoire de Chimie des Matériaux Moléculaires / CNRS, University of Strasbourg, Strasbourg, France)

Fullerene and Pillar[5]arene Scaffolds for the Construction of Multiporphyrin Arrays

15:00 to 15:20

Derck Schlettwein (Institute of Applied Physics, Justus Liebig University Giessen, Giessen, Germany)

What Makes a Phthalocyanine a Good Sensitizer for Dye-Sensitized Solar Cells?

15:20 to 15:40

Gilles Ulrich (L'Institut de Chimie et Procédés pour l'Énergie, l'Environnement et la Santé / CNRS, University of Strasbourg, Strasbourg, France)

Boron(III) Complexes: Convenient Dyes for Light Harvesting Devices

15:40 to 16:00

Pawel Wagner (ARC Centre for Electromaterials Science / Intelligent Polymer Research Institute, University of Wollongong, Wollongong, Australia), Christopher Hobbs, Nick Roach, Klaudia Wagner, Jono Barnsley, Keith Gordon, Goutham Kodali, Christopher Moser, Leslie Dutton, David Officer

Photovoltaic Application of Porphyrin Protein Maquette-Based Reaction Centres

16:00 to 16:20

Fabrice Odobel (Chimie et Interdisciplinarité: Synthèse, Analyse, Modélisation / Faculté des Sciences et des Techniques de Nantes, Université de Nantes, Nantes, France), Georgios Charalambidis, Yann Pellegrin, Eleni Glymenaki, Sofia Mariola, Vasilis Nikolaou, Fabian Plass, Asterios Charisiadis, Axel Kahnt, Athanassios Coutsolelos

Porphyrin Derivatives for Application in Dye-Sensitized Solar Cells and Dye-Sensitized Photoelectrosynthetic Systems

16:20 to 16:30

Devic Thomas (Institut des Matériaux Jean Rouxel / CNRS, Université de Nantes, Nantes, France), Alexandra Fateeva, Brian Abeykoon, Georges Mouchaham, Nathalie Guillou, Jean-Bernard Tommasino, Jean-Marc Greneche

How to Produce Highly Stable Functional Metal Organic Frameworks (MOFs) from Porphyrinic Building Blocks

16:30 to 17:00

Coffee Break

S36 Defining Heme Enzyme Catalytic Mechanisms

Room "Garmisch"

Chaired by Anabella Ivancich and James Kincaid

14:00 to 14:20

David Goodin (Department of Chemistry, University of California, Davis, USA), Shih-Wei Chuo, Xiaoxiao Shi, R. David Britt

Effects of Ligand Binding on the Structure and Dynamics of Two Forms of Cytochrome P450, CYP119 and CYP3A4

14:20 to 14:40

Lionel Cheruzel (Department of Chemistry, San Jose State University, San Jose, USA)

Hybrid P450 Enzymes Featuring Ru(II)-Diimine Complexes

14:40 to 15:00

Aimin Liu (Department of Chemistry, University of Texas at San Antonio, San Antonio, USA)

To Hydroxylate or Not to Hydroxylate: How Tyrosine Oxidation is Determined by Heme Enzymes

15:00 to 15:20

Nicolai Lehnert (Department of Chemistry and Department of Biophysics, University of Michigan, Ann Arbor, USA)

Modeling Key Intermediates in Cytochrome P450 Nitric Oxide Reductase

15:20 to 15:40

Paul Champion (Physics Department, Northeastern University, Boston, USA), Abdelkrim Benabbas, Yuhan Sun, Thomas Poulos

Ultrafast Ligand Binding in Heme Proteins: Breakdown of Spin Selection Rules, Adiabatic Transitions, and Heavy Atom Tunneling

15:40 to 16:00

Kent Rodgers (Department of Chemistry and Biochemistry, North Dakota State University, Fargo, USA), Zachary Geeraerts, Gudrun Lukat-Rodgers, Jennifer DuBois

Mechanistic Insights into the Chlorite Dismutase Reaction from Structural Details of the Heme Pocket and Intermediate Heme States

16:00 to 16:15

Piotr Mak (Chemistry Department, Saint Louis University, Saint Louis, USA)

Spectroscopic Characterization of Unstable Intermediates in Enzymatic Cycles of Mammalian Heme Proteins

16:15 to 16:30

Ann English (Department of Chemistry and Biochemistry, Concordia University, Montreal, Canada), Samaneh Dastpayman, Gonzalo Cosa

Tracking Heme Loading of a Protein in Live Cells by Fluorescence Lifetime Imaging Microscopy (FLIM)

16:30 to 17:00

Coffee Break

S45 Award Lectures

Room "Ballsaal"

Sessler Family Charitable Trust
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Chaired by Dirk M. Guldi; laudatio: Dirk M. Guldi

17:00 to 18:00

Jonathan Lindsey (Department of Chemistry, North Carolina State University, Raleigh, USA)

Tetrapyrroles – Venerable Macrocycles, Brilliant Future

MONDAY

S47 Talk by Industry-Representatives

Room "Barcelona"

Chaired by Guido Sauer

18:00 to 18:15

Eugeny Ermilov (PicoQuant, Berlin, Germany), Christian Oelsner, Frank Birke, Felix Koberling, Matthias Patting, Marcus Sackrow, Michael Wahl, Rainer Erdmann

Sensitive Time-Correlated Single Photon Counting Systems for Luminescence Spectroscopy of Tetrapyrrolic Molecules

MONDAY

Tuesday, July 3, 2018, AM

S46 Plenary Lecture Room "Ballsaal"

Chaired by Norbert Jux

08:30 to 09:30

Martin Stillman (Department of Chemistry, University of Western Ontario, London, Canada)

Quantifying the Electronic Properties of Tetrapyrroles: Progress towards Guided Synthesis of Tetrapyrroles to Maximize Technological Function

09:30 to 10:00

Coffee Break

TUESDAY

S03 Porphycenes

Room "Barcelona"

Chaired by Santi Nonell and Jacek Waluk

10:00 to 10:20

Piotr Fita (Department of Physics, University of Warsaw, Warsaw, Poland), Piotr Kasprzycki, Arkadiusz Listkowski, Jacek Waluk

Double Hydrogen Transfer in Porphycenes – From Solutions to Polymer Matrices

10:20 to 10:40

Takashi Hayashi (Department of Applied Chemistry, Osaka University, Suita, Japan), Koji Oohora

Hemoproteins Reconstituted with Iron and Manganese Porphycene Complexes

10:40 to 11:00

Yoshio Hisaeda (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan)

Facile Synthesis of Porphycene Derivatives and Reactivity of Cobalt Porphycene

11:00 to 11:20

Takashi Kumagai (Fritz-Haber Institute of the Max-Planck Society, Berlin, Germany)

Direct Observation of Tautomerization in a Single Porphycene Molecule Using Scanning Probe Microscopy

11:20 to 11:40

Pradeepta Panda (School of Chemistry, University of Hyderabad, Hyderabad, India), Narendra Pati, Anup Rana, Sameeta Sahoo, Sathish Bijigiri, Nagamaiah Jodukathula

Design and Synthesis of New Functionalized Porphycenes

11:40 to 12:00

Hiroko Yamada (Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Japan), Songlin Xue, Naoki Aratani, Daiki Kuzuhara

Hexaphyrin(2.1.2.1.2.1): Synthesis, Metal Complexes, and Substituent Effect

TUESDAY

S05 Functionalization of Porphyrins

Room "Sydney"



Chaired by Christian Brückner and Norbert Jux

10:00 to 10:20

Dorota Gryko (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Katarzyna Rybicka Jasińska, Katarzyna Orłowska, Katarzyna Goliszewska, Michał Ociepa
Photoredox Catalysis with Porphyrinoids

10:20 to 10:40

Yoshihiro Matano (Department of Chemistry / Faculty of Science, Niigata University, Niigata, Japan)
Redox-Switchable 5,10,15,20-Tetraaryl-5,15-diazaporphyrinoids and their Derivatives

10:40 to 11:00

Christine Odile Paul-Roth (Institut National des Sciences Appliquées / Institut des Sciences Chimiques de Rennes, Rennes, France)
New Conjugated Fluorenyl-Porphyrin Dendrimers for Optics

11:00 to 11:20

Hiroshi Shinokubo (Graduate School of Engineering, Nagoya University, Nagoya, Japan)
Functionalization and Properties of Norcorroles

11:20 to 11:40

Pietro Tagliatesta (Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Rome, Italy), Francesca Limosani, Fabio Possanza
Functionalization of Porphyrins by Triple Carbon-Carbon Bond *via* the Sonogashira Reaction

11:40 to 12:00

Rik Tykwinski (Department of Chemistry, University of Alberta, Edmonton, Canada), Yueze Gao, Vroni Walter, Norbert Jux
Synthesis of Porphyrins with Acetylene and Polyyne Ligands: Axial Ligand Effects and Supramolecular Chemistry

12:00 to 12:10

Maria da Graça P. M. S. Neves (Department of Chemistry, University of Aveiro, Aveiro, Portugal), Nuno M.M. Moura, Ana T.P.C. Gomes, M. Eddahmi, Ouafa Amiri, El Mostapha Rakib, Maria A.F. Faustino, J.A.S. Cavaleiro
New Synthetic Strategies in the β -Functionalization of *meso*-Tetraaryporphyrins via Nitro and Formyl Substituents

12:10 to 12:20

Ken-ichi Sugiura (Department of Chemistry, Tokyo Metropolitan University, Hachi-Oji, Japan)
Diels-Alder Reactions of 5,10-Diarylporphyrin and Porphyrin-5,10-quinone

12:20 to 12:30

Masaaki Suzuki (Interdisciplinary Graduate School of Science and Engineering, Shimane University, Matsue, Japan), Koji Okinaga, Yutaka Nishigaichi
Synthesis of Nonplanar Tetrabenzoporphyrins Bearing *meso*-Trifluoromethyl Substituents

TUESDAY

S10 Metalloporphyrinoids

Room "Partenkirchen"

Chaired by Kin-Shing Chan and Jun-Long Zhang

10:00 to 10:20

Hua Lu (Key Laboratory of Organosilicon Chemistry and Material Technology, Hangzhou Normal University, Hangzhou, China)

Silyl-BODIPYs: Synthesis and Photophysical Properties

10:20 to 10:40

Lijuan Jiao (College of Chemistry and Material Science, Anhui Normal University, Wuhu, China), Wei Miao, Erhong Hao

Straightforward Synthesis and Complexation Properties of Open-Chain Oligopyrroles

10:40 to 11:00

Pavel A. Stuzhin (Department of Organic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Mahmoud Hamdoush, Ivan Skvortsov, Svetlana S. Ivanova, Yuriy Zhabanov, Georgy L. Pakhomov, Mikhail Islyaikin, Ilya Khodov, Nikolay V. Somov

Heterocyclic (Sub)Phthalocyanine Analogues

11:00 to 11:20

Patchanita Thamyongkit (Department of Chemistry / Faculty of Science, Chulalongkorn University, Bangkok, Thailand)

Investigation on Potential of Benzoporphyrin-Thiophene Conjugates for Optoelectronic and Electrocatalytic Applications

11:20 to 11:40

Junlong Zhang (Chemistry Department, Peking University, Beijing, China)

Design of NIR Luminescent Lanthanide Sensitive to Environmental Stimulus

11:40 to 11:50

Nicolas Boscher (Material Research and Technology, Luxembourg Institute of Science and Technology, Belvaux, Luxembourg), Giuseppe Bengasi, Kamal Baba, Minghui Wang, Katja Heinze, Karen Gleason

Chemical Vapour Deposition of Metalloporphyrinoids – A Simple Route towards Functional Thin Films

11:50 to 12:00

Jannie C. Swarts (Department of Chemistry, University of the Free State, Bloemfontein, South Africa), Jan P. Lewtak, Ernie H.G. Langner

Syntheses, Mesophase Behaviour and Electrochemical Properties of Metallocenyl-Substituted Phthalocyanines

12:00 to 12:05

Ivan Meshkov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Yulia Gorbunova, Véronique Bulach, Aslan Tsivadze, Mir Wais Hosseini

Molecular Switches Based on Unusual Porphyrins – Part I

S13 Phthalocyanines and Related Systems

Room "Ballsaal"

HAMAMATSU
PHOTON IS OUR BUSINESS

Chaired by Andrew Cammidge, Giovanni Bottari, Gema de la Torre, and Tomás Torres

10:00 to 10:20

Oskar Koifman (Research Institute of Macroheterocycles, Ivanovo State University of Chemistry and Technology / Russia International Research Laboratory on Nanomaterials, Ivanovo, Russia)
New Functional Materials on the Base of Macroheterocyclic Compounds

10:20 to 10:40

Chang-Hee Lee (Department of Chemistry, Kangwon National University, Chun Cheon, Korea)
 π -Conjugated Oligopyrrolic Macrocycles: Non-Aromatic and Anti-Aromatic Porphyrinoids

10:40 to 11:00

Saad Makhseed (Department of Chemistry, Kuwait University, Kuwait, Kuwait)
Highest Singlet Oxygen Generator Based on Phthalocyanines in Aqueous Media

11:00 to 11:20

Victor Nemykin (Department of Chemistry, University of Manitoba, Winnipeg, Canada), Yuriy Zatsikha, David Blank, Christopher Ziegler
Tuning Electronic Structures of BODIPYs and aza-BODIPYs for Non-Covalent Interactions with Nano-Carbon Materials and Photoinduced Electron Transfer toward a Rational Design of New Light-Harvesting Materials

11:20 to 11:40

M. Salome Rodriguez-Morgade (Department of Organic Chemistry, Autonoma University of Madrid, Madrid, Spain), Joana Teles Ferreira, Rosa Fernandes, João P.C. Tomé, Tomás Torres
Ruthenium Phthalocyanines as Photosensitizers for Photodynamic Therapy

11:40 to 12:00

David Sánchez-García (Institut Químic de Sarrià, Ramon Llull University, Barcelona, Spain), Gonzalo Anguera, Brice Kauffmann, José I. Borrell, Salvador Borrós
New Deca- and Dodecaphyrins: Synthesis and Anion Binding Studies

12:00 to 12:20

Jianxin Song (College of Chemistry and Engineering, Hunan Normal University, Changsha, China), Bin Wen, Yutao Rao, Yunmei Liu, Xia Liu
Strategic Construction of Porphyrinoids / Porphyrin Arrays

12:20 to 12:40

S. Holger Eichhorn (Department of Chemistry and Biochemistry, University of Windsor, Windsor, Canada), Elmahdy Abdulhamied, Nazir Tahir, Simon Rondeau-Gagné, Christine DeWolf, Mohamed Ahmida, Himadri Kayal
Molecular Design of Amphiphilic and Self-Organizing Tetraazaporphyrins and their Cross-Linked Films and Materials

TUESDAY

S25 Catalytic Chemical Transformations by Metalloporphyrins

Room "Garmisch"

Chaired by Ivana Ivanovic-Burmazovic

10:00 to 10:20

Mahdi Abu-Omar (Department of Chemistry and Biochemistry, University of California, Santa Barbara, USA)
Lewis-Acid-Assisted Electron and Atom Transfer Reactions of Corrole and Porphyrin Complexes

10:20 to 10:40

Tadashi Ema (Graduate School of Natural Science and Technology, Okayama University, Okayama, Japan),
Chihiro Maeda, Sota Sasaki, Kazuto Takaishi
Metalloporphyrin Catalysts for the Conversions of CO₂ into Value-Added Chemicals

10:40 to 11:00

Ivana Ivanovic-Burmazovic (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany)
Metalloporphyrins for Activation of Small Molecules of Biological and Environmental / Energy Relevance

11:00 to 11:20

Joost Reek (Van't Hoff Institute for Molecular Sciences, University of Amsterdam, Amsterdam, Netherlands)
Catalysis in Porphyrin Based Self-Assembled Supramolecular Cages

11:20 to 11:40

Ken Sakai (Department of Chemistry / Faculty of Science, Kyushu University, Fukuoka, Japan)
Water Oxidation and CO₂ Reduction Catalyzed by Co-, Cu- and Ru-Centered Catalysts Including Cobalt Porphyrins

11:40 to 12:00

Marc Robert (Laboratoire Electrochimie Moléculaire, Université Paris Diderot, Paris, France)
Solar Fuels from CO₂ Catalytic Reduction. Producing CH₄ with Fe Porphyrins

12:00 to 12:10

Hans Elemans (Institute for Molecules and Materials, Radboud University, Nijmegen, Netherlands)
Imaging Single Molecule Oxidation Reactions of Mn(III) and Fe(III) Porphyrins in an Environmentally Controlled Liquid-STM

12:10 to 12:15

Lucie Cailler (Institut de Recherches sur la Catalyse et l'Environnement de Lyon / CNRS, University of Lyon 1, Villeurbanne, France), Andrey Kroitor, Alexander Martynov, Yulia Gorbunova, Aslan Tsivadze, Alexander Sorokin
Carbene Insertion into Olefins and N-H Bonds Catalyzed by Mono- and Binuclear Ruthenium Phthalocyanines – Part I

12:15 to 12:20

Min Wang (Laboratoire Electrochimie Moléculaire, Université Paris Diderot, Paris, France), Ümit Isci, Marc Robert
Hybrid Systems Comprising Cobalt Porphyrins and Phthalocyanines for Highly Efficient Electrocatalytic Reduction of CO₂ in Water – Part I

S30 Porphyrin Derivatives for Medical / Biological Applications

Room "Atlanta"

Chaired by Claude P. Gros

10:00 to 10:20

Céline Frochot (Laboratoire Réactions et Génie des Procédés / CNRS, Lorraine University, Nancy, France),
Francis Baros, Philippe Arnoux, Samir Acherar, Paul Rétif, Noémie Thomas
Nanoparticles for X-ray-Induced PDT

10:20 to 10:40

Brigitte Guerin (Department of Nuclear Medicine and Radiobiology, University of Sherbrooke, Sherbrooke, Canada)
¹⁸F-Labelled BODIPY-Steroid Conjugates as Potential Bimodal Imaging Agents

10:40 to 11:00

Valérie Heitz (Institut de Chimie de Strasbourg, University of Strasbourg, Strasbourg, France)
Bifunctional Molecules for Theranostic Applications

11:00 to 11:20

Saburo Neya (Graduate School of Pharmaceutical Sciences, Chiba University, Chiba City, Japan)
Solubilization of Alkyl Hemes in Water for Hemoprotein Reconstitution

11:20 to 11:40

Roberto Paolesse (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Corrado Di Natale, Rosa Maria Capuano, Donato Monti, Sara Nardis, Manuela Stefanelli
Porphyrinoid Based Sensor Arrays for Medical Diagnosis

11:40 to 12:00

Hong Wang (Department of Chemistry, University of North Texas, Denton, USA), Yi Hu, Siddhartha Kumar, Raja Waruna Jinadasa, Michael Thomas, Francis D'Souza, Xiaoqin Jiang, Wenqian Shan, Karl M. Kadish
Functionalization of π -Extended Porphyrins

12:00 to 12:10

Nicolas Desbois (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Flavien Ponsot, Pritam Mondal, Anthony Romieu, Claude Gros
Development of New Fluorogenic Probes Based on Hydroporphyrin-DiketoPyrroloPyrrole (DPP) Hybrids

12:10 to 12:20

Takahisa Ikeue (Department of Material Science / Interdisciplinary Faculty of Science and Engineering, Shimane University, Matsue-shi, Japan), Atushi Nagai, Ryo Sasai
Synthesis of Porphyrinoids for Amyloid β Aggregation Inhibitors and PDT Agents

TUESDAY

12:20 to 12:25

Enrico Caruso (Department of Biotechnology and Life Science, University of Insubria, Varese, Italy)

Synthesis and *in vitro* Photodynamic Activity Evaluation of Core-Shell Poly-Methyl Methacrylate Nanoparticles Covalently Functionalized with a Diarylic Non-Symmetric Porphyrin – Part I

12:25 to 12:30

Muthumuni Managa (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Ojodomo J. Achadu, Tebello Nyokong

Photophysical Studies of Graphene Quantum Dots – Pyrene-Porphyrins Conjugates Encapsulated in Pluronic F127 Micelles – Part I

TUESDAY

Tuesday, July 3, 2018, PM

S02 Phthalocyanines and Related Systems

in dedication of Michael Hanack

Room "Sydney"

nature
chemistry

Chaired by Dirk M. Guldi and Tomás Torres

14:00 to 14:20

Clifford Leznoff (Department of Chemistry, York University, Toronto, Canada)
The Synthesis of Unusual Substituted Phthalocyanines

14:20 to 14:40

Michael Cook (School of Chemistry, University of East Anglia, Norwich, United Kingdom), David Russell, Asim Ray
An Overview of 30 Years of Phthalocyanine Film Research at the University of East Anglia

14:40 to 15:00

Fernando Fernández-Lázaro (Instituto de Bioingeniería, Universidad Miguel Hernandez de Elche, Elche, Spain), Nathalie Zink-Lorre, Enrique Font-Sanchis, Ángela Sastre-Santos, Francis D'Souza
Synthesis and Photophysical Studies of Directly Linked Phthalocyanine-Perylenediimide Systems

15:00 to 15:20

Andreas Hirsch (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany)
Hybridization of Porphyrins with Synthetic Carbon Allotropes and Inorganic Nanoparticles

15:20 to 15:40

Nazario Martín (Departamento de Química Orgánica, Universidad Complutense, Madrid, Spain)
Repeat Protein Scaffolds: Ordering Photo- and Electroactive Molecules in Solution and Solid State

15:40 to 16:00

Dieter Wöhrle (Faculty 2, University of Bremen, Bremen, Germany), Sergei Makarov, Günter Schnurpfeil, Aneta Slodek, David Steinebrunner, Olga Suvorova
Highlights of Recent Research on Phthalocyanines

16:00 to 16:20

Tomás Torres (Department of Organic Chemistry, Autònoma University of Madrid, Madrid, Spain)
Molecular Materials Based on Phthalocyanines

16:20 to 16:25

Tatyana Tikhomirova (Department of Technology of Fine Organic Synthesis, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Anna Filippova, Serafima Znoyko, Darja Govorova, Artur Vashurin
Synthesis of f-Metal Complexes with Phenyl-Phenoxysubstituted Phthalocyaninates

16:30 to 17:00

Coffee Break

S17 High-Valent Metal-Oxo and Their Precursor Macrocyclic Complexes: Structure and Reactivity

Room "Barcelona"

Chaired by Wonwoo Nam and Alexander Sorokin

14:00 to 14:20

Hiroshi Fujii (Department of Chemistry / Graduate School of Humanities and Sciences, Nara Women's University, Nara, Japan)

Participation of Electron-Transfer Process in Aromatic Hydroxylation Reactions by Heme Enzymes

14:20 to 14:40

Shunichi Fukuzumi (Department of Chemistry and Nano Science, Ewha Womans University, Seoul, Korea)

Solar-Driven Production of Hydrogen Peroxide from Water and Dioxygen and its Usage in Green Oxidation Reactions

14:40 to 15:00

John T. Groves (Department of Chemistry, Princeton University, Princeton, USA)

Heteroatom Rebound Catalysis – New Paradigms for High-Valent Fe-X and Mn-X Reactivity

15:00 to 15:20

Alexander Sorokin (Institut de Recherches sur la Catalyse et l'Environnement de Lyon / CNRS, Université Lyon 1, Villeurbanne, France)

High Valent Oxo Species on Diiron μ -Nitrido Phthalocyanine Platform: Reactivity in the Oxidation of C-H Bonds

15:20 to 15:40

Marcel Swart (Institución Catalana de Investigación y Estudios Avanzados, University of Girona, Girona, Spain)

Characterization of Reactive High-Valent Transition-Metal Complexes

15:40 to 16:00

Sayam Sen Gupta (Indian Institute of Science and Research Kolkata, Mohanpur, India), Bittu Chandra, Santanu Pattanayak

Selective Photocatalytic Hydroxylation and Epoxidation Reaction by an Iron Complex Using Water as the Oxygen Source

16:00 to 16:10

Magal Saphier (Chemistry Department, Nuclear Research Center Negev, Beer Sheva, Israel), Dror Shamir

A Copper(III) Porphyrin Adsorbed on an Indium-Tin Oxide (ITO) Electrode Facilitates Water Oxidation in Aqueous Solutions

16:30 to 17:00

Coffee Break

TUESDAY

S37 Chemistry, Properties, and Applications of Corrinoids and Related Compounds

Room "Atlanta"

Chaired by Dorota Gryko and Felix Zelder

14:00 to 14:20

Koji Oohora (Department of Applied Chemistry / Graduate School of Engineering, Osaka University, Suita, Japan), Ning Tang, Yoshitsugu Morita, Takashi Hayashi

Hemoproteins Reconstituted with Synthetic Cobalt Corrinoid toward Models of Vitamin B₁₂-Dependent Enzymes

14:20 to 14:40

Elisa Tomat (Department of Chemistry and Biochemistry, University of Arizona, Tucson, USA), Ritika Gautam, Steven Petritis, Andrei Astashkin

Linear Tripyrroles: From Bacterial Pigments and Heme Metabolites to Redox-Active Ligands

14:40 to 15:00

Felix Zelder (Department of Chemistry, University of Zurich, Zurich, Switzerland), Marjorie Sonnay

Modified Vitamin B₁₂ Derivatives for Biomimetic Studies and Potential Medicinal Applications

15:00 to 15:20

Fabio Zobi (Department of Chemistry, University of Fribourg, Fribourg, Switzerland), Jeremie Rossier, Joachim Delasoie, Leatitia Häni, Barbara Rothen-Rutishauser

Organometallic Cobalamin PhotoCORMs to Evaluate the Impact and Role of CO in their Anticancer Activity

15:20 to 15:40

Bernhard Kräutler (Institute of Organic Chemistry / Centre for Molecular Biosciences, University of Innsbruck, Innsbruck, Austria)

New Roads to Organometallic B₁₂-Derivatives

15:40 to 15:50

Agnieszka Jackowska (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Maciej Giedyk, Marcin Równicki, Joanna Trylska, Dorota Gryko

Vitamin B12 as a Transporter of Modified RNAs into Gram-Negative Bacteria – Part I

15:50 to 16:00

Aleksandra Wierzb (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Marcin Równicki, Tomasz Pieńko, Joanna Trylska, Dorota Gryko

Synthetic Approaches towards Vitamin B12 Conjugates – Part I

16:00 to 16:05

Christopher Brenig (Department of Chemistry, University of Zurich, Zurich, Switzerland), Felix Zelder

Towards Novel Antivitamins B12 for Medicinal Applications – Part I

16:30 to 17:00

Coffee Break

TUESDAY

S39 Biochemistry of Linear Tetrapyrroles

Room "Partenkirchen"

Chaired by Hugo Scheer and Kai-Hong Zhao

14:00 to 14:30

Noam Adir (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Shira Bar-Zvi, Dvir Harris, Avital Lahav, Dariusz M. Niedzwiedzki, Robert E. Blankenship
Phycocyanin Can Serve as the Terminal Emitter in the Absence of Allophycocyanin in *A. Marina*

14:30 to 15:00

Nicole Frankenberg-Dinkel (Microbiology, University of Kaiserslautern, Kaiserslautern, Germany)
Phycobiliprotein Assembly from Cyanobacteria Goes Viral

15:00 to 15:20

Wolfgang Gärtner (Institute of Analytical Chemistry, University of Leipzig, Leipzig, Germany), Alexander Gutt, Eleonora Consiglieri, Stefania Abbruzzetti, Aba Losi, Cristiano Viappiani
Kinetics of Conversion between Pr and Pfr States in Three Prototypal Bacteriophytochromes

15:20 to 15:40

Jörg Matysik (Institute of Analytical Chemistry, University of Leipzig, Leipzig, Germany), Susanne Altmayer, Chen Song, Christina Lang, Jon Hughes, Wolfgang Gärtner
Analyzing Phytochromes and Cyanophytochromes by Solid-State NMR

15:40 to 16:00

Kai-Hong Zhao (State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural University, Wuhan, China), Ya-Nan Hou, Wen-Long Ding, Zi-Zhu Tan, Su-Ping Jiang, Dan Miao, Ming Zhou, Aba Losi, Wolfgang Gärtner, Hugo Scheer
Bright Biliprotein Labeling Reaching out to the NIR

16:00 to 16:20

Xiaojing Yang (Department of Chemistry, University of Illinois at Chicago, Chicago, USA)
Crystal Structure of a Far-Red-Absorbing Photoreceptor

16:30 to 17:00

Coffee Break

TUESDAY

S41 Heme Enzymes: Functional Mechanisms

in memory of Takashi Ogura

Room "Garmisch"

Chaired by Shingo Nagano and Takehiko Tosha

14:00 to 14:20

Satoru Nakashima (Graduate School of Life Science, University of Hyogo, Kamigori, Japan), Chen Li, Tatsuhito Nishiguchi, Kyoko Shinzawa-Itoh, Shinya Yoshikawa, Takashi Ogura

Proton Pumping Dynamics during Catalytic Cycle in Cytochrome c Oxidase Revealed by Time-Resolved IR Spectroscopy

14:20 to 14:40

Takehiko Tosha (RIKEN, Hyogo, Japan), Tetsunari Kimura, Hanae Takeda, Shoko Ishii, Takashi Nomura, Minoru Kubo, Yoshitsugu Shiro

Mechanism of Biological Nitric Oxide Reduction Proved by Time-Resolved Spectroscopic Analyses

14:40 to 15:00

Eftychia Pinakoulaki (Department of Chemistry, University of Cyprus, Nicosia, Cyprus), Androulla Ioannou, Andreas Loullis, Alexandra Lambrou

Probing the Reactions of Heme Globins and Heme / Copper Oxidases with Nitrite by Resonance Raman Spectroscopy

15:00 to 15:20

Shigenori Nagatomo (Department of Chemistry / Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan), Takashi Ogura, Teizo Kitagawa, Masako Nagai

Different Roles between α and β Subunits in $\alpha_2\beta_2$ Tetramer for Cooperative O₂ Binding of Hemoglobin

15:20 to 15:40

Shingo Nagano (Department of Chemistry and Biotechnology / Graduate School of Engineering, Tottori University, Tottori, Japan), Keisuke Fujiyama, Tomoya Hino, Bunta Watanabe, Hyoung Jae Lee, Masaharu Mizutani

Structural Insights into a Key Step in Brassinosteroid Biosynthesis and its Inhibition

15:40 to 16:00

Anabella Ivancich (Bioenergetics and Protein Engineering / CNRS, Aix-Marseille University, Marseille, France), Karl Koebke, Julia Rendon, Barbara Schoepp, Guillaume Gerbaud, Stephane Grimaldi, Vincent L. Pecoraro

An Unprecedented pH-Dependent Switch from His to Cys Coordination in a *de novo* Designed Mini-Heme Enzyme: A Mimic of Lactoperoxidase or Chloroperoxidase / cyt P450 Enzymes, All in One

16:00 to 16:10

Paul Furtmüller (Department of Chemistry, University of Natural Resources and Life Sciences, Vienna, Austria), Andrea Nicolussi, Markus Auer, Martina Paumann-Page, Benjamin Sevcnikar, Vera Pfanzagl, Marcel Zamocky, Stefan Hofbauer, Christian Obinger

Posttranslational Modification of Heme in Peroxidases – Impact on Structure and Catalysis

16:30 to 17:00

Coffee Break

S44 Small Molecules Studies: Experiment and Theory

Room "Ballsaal"

Chaired by Jianfeng Li and W. Robert Scheidt

14:00 to 14:20

Fabio Doctorovich (Instituto de Quimica Fisica de los Materiales, Universidad de Buenos Aires, Buenos Aires, Argentina)

NO / HNO Interconversion: Endogenous HNO?

14:20 to 14:40

Jianfeng Li (College of Materials Science, University of Chinese Academy of Sciences, Beijing, China), Qian Peng, J. Timothy Sage, Yulong Liu, Zijian Wang, W. Robert Scheidt, Michael Y. Hu, Jiyong Zhao, E. Ercan Alp

How Does a Heme Carbene Differ from Diatomic Analogues (NO, CO and CN⁻) in the Axial Bond?

14:40 to 15:00

Michael Ryan (Chemistry Department, Marquette University, Milwaukee, USA), Md. Hafizur Rahman

Formation of Fe(OEP) Hydroxylamine from Fe(OEP)(HNO)

15:00 to 15:20

J. Timothy Sage (Department of Physics, Northeastern University, Boston, USA), Bogdan M. Leu, W. Robert Scheidt, Charles E. Schulz

Vibrational and Supravibrational Dynamics in Hemes and Heme Proteins

15:20 to 15:40

W. Robert Scheidt (Department of Chemistry and Biochemistry, University of Notre Dame, Notre Dame, USA), Ming Li, Allen G. Oliver

Studies in Heme-CO. What Does Fe-C Mean?

15:40 to 15:50

Chen-Hsiung Hung (Institute of Chemistry, Academia Sinica, Taipei, Taiwan), Wei-Min Ching, Chuan-Hung Chuang

Conversion of Nitrogen Oxides under Metallo-N-Confused Porphyrin Platforms

15:50 to 16:00

Volker Schünemann (Department of Physics, University of Kaiserslautern, Kaiserslautern, Germany), Hendrik Auerbach, F. Ann Walker

Low Frequency Modes of Iron Porphyrins

16:00 to 16:10

Wei Sun (State Key Laboratory for Oxo Synthesis and Selective Oxidation, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou, China), Bin Qiu, Chengxia Miao

Biomimetic Metal Complexes Bearing N4 Ligands Catalyzed Oxidation Reaction

16:30 to 17:00

Coffee Break

S45 Award Lectures

Room "Ballsaal"



Hans-Fischer-Gesellschaft

Chaired by Dirk M. Guldi; laudatio: Dirk M. Guldi

17:00 to 18:00

Zeev Gross (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel)

20 Years of Triarylcorroles and New Horizons

TUESDAY

Wednesday, July 4, 2018, AM

S45 Award Lectures Room "Ballsaal"



Chaired by Dirk M. Guldi; laudatio: John Groves

08:30 to 09:30

John H. Dawson (Department of Chemistry and Biochemistry, University of South Carolina, Columbia, USA)
My Fascination with the Active Site Structures and Mechanisms of Action of Heme Iron Enzymes: P450, Peroxidases and MCD Spectroscopy

09:30 to 10:00

Coffee Break

S45 Young Award Lectures Room "Ballsaal"



Chaired by Franz-Peter Montforts; laudatio: Franz-Peter Montforts

10:00 to 10:30

Andres de la Escosura (Organic Chemistry Department, Autonoma University of Madrid, Madrid, Spain), Tomás Torres, Francesca Setaro, Eduardo Anaya-Plaza, Eveline van de Winckle, Veronica Almeida
Phthalocyanine-Based (Bio)Hybrid Materials

10:30 to 11:00

Satoru Hiroto (Department of Molecular and Macromolecular Chemistry / Graduate School of Engineering, Nagoya University, Nagoya, Japan)
Development of Novel Synthetic Protocol of Porphyrinoids Based on Distorted Structures

11:00 to 11:30

Jonathan Lovell (Department of Biomedical Engineering, State University of New York at Buffalo, Buffalo, USA)
Self-Assembled Porphyrin and Phthalocyanine Nanostructures for Biomedical Applications

S45 Award Lectures Room "Ballsaal"



Chaired by Dirk M. Guldi; laudatio: Michael Groll

11:30 to 12:00

Ville R. I. Kaila (Department of Chemistry, Technical University of Munich, Garching, Germany)
Heme Catalysis in Action: Mechanism of Redox-Coupled Proton Pumping in Cytochrome c Oxidase

Wednesday, July 4, 2018, PM

Excursion

Meeting Point : Lobby

12:30 to 19:00

Conference Banquet

19:00 to 23:00

WEDNESDAY

Thursday, July 5, 2018, AM

S46 Plenary Lecture Room "Ballsaal"

Chaired by Norbert Jux

08:30 to 09:30

David Officer (ARC Centre of Excellence for Electromaterials Science / Intelligent Polymer Research Institute,
University of Wollongong, Wollongong, Australia)
Creating Porphyrin-Based Materials for Energy Applications

09:30 to 10:00

Coffee Break

THURSDAY

S07 Porphyrazines

Room "Garmisch"

Chaired by Pavel A. Stuzhin and Petr Zimcik

10:00 to 10:20

Kunio Awaga (Department of Chemistry, Nagoya University, Nagoya, Japan), Chihiro Nanjo, Keitaro Eguchi
Template Effects on Porphyrazine Thin Films toward Application to Organic Electronics

10:20 to 10:40

Maria Pia Donzello (Department of Chemistry, University of Rome Sapienza, Rome, Italy), Elisa Viola, Claudio Ercolani
Differently Sized Neutral and Octacationic Porphyrazines: Physicochemical Properties and Potentialities as Anticancer Drugs

10:40 to 11:00

Rüdiger Faust (Department of Chemistry, University of Kassel, Kassel, Germany)
Made to Order: Porphyrazines as Functional Dyes

11:00 to 11:20

Dmitry Konarev (Institute of Problems of Chemical Physics, Russian Academy of Sciences, Chernogolovka, Russia)
Crystal Structures, Optical and Magnetic Properties of Radical Anion Salts Based on Metal Phthalocyanines

11:20 to 11:40

Miroslav Miletin (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis / Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic), Jiri Demuth, Radim Kucera, Kamil Kopecky, Veronika Novakova, Petr Zimcik
Azaphthalocyanine Dark Quencher and its Application in Model Method and Real-Time PCR

11:40 to 12:00

Veronika Novakova (Department of Biophysics and Physical Chemistry / Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic), Lukas Lochman, Petr Zimcik
Phthalocyanine Analogues as Red-Emitting Fluorescence Sensors

12:00 to 12:10

Svetlana Ivanova (Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Denis S. Salnikov, Gleb Knorr, Olesja Ledovich, Petr Zimcik, Veronika Novakova, Pavel Kubat, Pavel A. Stuzhin
Water-Soluble Phosphorus(V) Corrolazines and Porphyrazines

12:10 to 12:20

Alena Malyasova (Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Ekaterina Merkulova, Pavel Stuzhin, Olga Khelevina, Oskar Koifman
Transformation of Diazepine Fused to Porphyrazine Macrocycles

THURSDAY

12:20 to 12:25

Jong Min Park (Department of Organic and Nano Engineering, Hanyang University, Seoul, Korea), Chang Young Jung

Novel Approaches to Incorporate Tetrapyrazinoporphyrazine Derivatives and Glucose Groups for Photodynamic Therapy

THURSDAY

S08 BODIPY Dyes

Room "Ballsaal"



Chaired by Erhong Hao and Lijuan Jiao

10:00 to 10:20

Martin Bröring (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany)
BODIPY Derivatives for Energy Applications

10:20 to 10:40

Francis D'Souza (Department of Chemistry, University of North Texas, Denton, USA)
BODIPY and AzaBODIPY Derived Donor-Acceptor Conjugates for Mimicking Early Events of Natural Photosynthesis

10:40 to 11:00

Erhong Hao (College of Chemistry and Materials Science, Anhui Normal University, Wuhu, China)
Deep NIR Fluorophores Derived from AzaBODIPYs

11:00 to 11:20

CANCELLED

Tatsuya Nabeshima (Department of Chemistry, University of Tsukuba, Tsukuba, Japan)
Design and Synthesis of Functional BODIPYs and Related Dyes

11:20 to 11:40

Dennis Ng (Department of Chemistry, Chinese University of Hong Kong, Hong Kong, China), Yimin Zhou, Wenjing Shi, Qiong Wang, Pui-Chi Lo
Boron Dipyrromethene Derivatives for Biomedical Applications

11:40 to 12:00

Jishan Wu (Department of Chemistry, National University of Singapore, Singapore, Singapore)
BODIPY and Porphyrinoid Based Diradicaloids and NIR Dyes

12:00 to 12:10

Juergen Bartelmess (Chemical and Optical Sensing, Federal Institute for Materials Research and Testing / BAM, Berlin, Germany), Matthias Bartholmai, Katherine Chulvi-Iborra, Werner Kraus, Knut Rurack
Developments towards a BODIPY-Based Fluorometric Sensing Device for Multiple Hazardous Gases

12:10 to 12:20

Arno Wiehe (biolitec research GmbH, Jena, Germany), Claudia S. Gutsche, Benjamin F. Hohlfeld, Susanna Gräfe, Burkhard Gitter, Keith J. Flanagan, Mathias O. Senge, Nora Kulak
Pre- and Postfunctionalisation in Dipyrroin Metal Complexes – Synthesis and Biological Evaluation

12:20 to 12:25

Vijayalakshmi Pandey (Department of Chemistry, Indian Institute of Technology Gandhinagar, Gandhinagar, India), Praseetha E. Kesavan, Iti Gupta
BODIPY Dyes: Synthesis and Biological Studies – Part I

THURSDAY

12:25 to 12:30

Ritambhara Sharma (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), Martin Bröring, Ravikanth Mangalampalli

3-Pyrrolyl BODIPY Based Fluorescent Systems – Part I

THURSDAY

S20 Porphyrin Assemblies in Confined Space

Room "Atlanta"

Chaired Akihiko Tsuda

10:00 to 10:20

J. Michael Gottfried (Department of Chemistry, University of Marburg, Marburg, Germany)

Interface Chemistry of Expanded and Contracted Oligopyrroles: On-Surface Synthesis, Reactions, and Electronic Properties

10:20 to 10:40

Woo-Dong Jang (Department of Chemistry, Yonsei University, Seoul, Korea), Hosoo Lee

Formation of Supramolecular Assemblies from Oligoporphyrin Derivatives

10:40 to 11:00

Suk Joong Lee (Department of Chemistry, Korea University, Seoul, Korea)

Mn(III)-Porphyrin Based Porous Materials for the Heterogeneous Olefin Oxidation

11:00 to 11:20

Munenori Numata (Department of Biomolecular Chemistry / Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Kyoto, Japan)

Controlled Self-Assembly of Porphyrin in Designed Microspace

11:20 to 11:40

Nathalie Solladié (Laboratoire de Chimie de Coordination / CNRS, Toulouse, France)

Nucleotidic and Peptidic Multi-Porphyrinic Devices: When the Desired Conformation is Determined by Chiral Flexible Linkers

11:40 to 12:00

Akihiko Tsuda (Department of Chemistry / Graduate School of Science, Kobe University, Kobe, Japan)

An Acid-Responsive Single Trichromatic Luminescent Bipyrrrole that Provides Pure White Light Emission

12:00 to 12:10

Larissa Maiorova (Research Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Oleg Kononov, Oscar Koifman

Nanostructures Formed by Noncovalent Self-Organization of Porphyrins at Air-Water Interface under Conditions of Confined Space at the Nanolevel

12:10 to 12:20

Mitsuhiko Morisue (Faculty of Molecular Chemistry and Engineering, Kyoto Institute of Technology, Kyoto, Japan)

NIR Luminescent Excimer Formation of Porphyrin Glasses

THURSDAY

S21 Nanomaterials for Energy Conversion, Storage and Catalysis Room "Sydney"



Chaired by Yujiang Song

10:00 to 10:20

Ally Aukauloo (Institut de Chimie Moléculaire et des Matériaux d'Orsay, University Paris Sud, Orsay, France),
Stéphanie Mendes Marinho, Georgios Charalampidis, Adelais Trapali, Annamaria Quaranta, Maylis Orio, Winfried
Leibl, Hynd Remita, Athanassios Coutsolelos, Zakaria Halime, Marie Sircoglou

Modelization of Photosystem II and New Nano Conjugated Polymers for Water Splitting Reaction

10:20 to 10:40

Willi Auwärter (Department of Physics, Technical University of Munich, Garching, Germany)

Nanostructures Combining Tetrapyrroles and 2D-Materials

10:40 to 11:00

Feng Bai (Key Laboratory for Special Functional Materials of the Ministry of Education, Henan University,
Kaifeng, China)

Self-Assembled Porphyrin Nanocrystals for Efficient Visible-Light-Driven Hydrogen Evolution

11:00 to 11:20

Sang Hoon Joo (School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology,
Ulsan, Korea), Young Jin Sa, Jae Hyung Kim, Jinwoo Woo

Carbon Nanostructures Coated with Singly Dispersed M-N_x Sites as Non-Precious Metal Catalysts for Energy
Conversion Reactions

11:20 to 11:40

Jin-Gang Liu (Department of Chemistry, East China University of Science and Technology, Shanghai, China),
Ping-Jie Wei, Guo-Qiang Yu, Fei-Fei Wang, Ye-Min Zhao

Tuning the Electrocatalysts Performance for Oxygen Reduction Reaction with Iron Porphyrin-Grafted on Carbon
Nanotubes

11:40 to 12:00

Yujiang Song (State Key Laboratory of Fine Chemicals / School of Chemical Engineering, Dalian University of
Technology, Dalian, China), Zihui Zhai

Pyrolysis of Ionic Co-Assembled Iron and Cobalt Porphyrin on Carbon as Highly Active Electrocatalysts toward
Oxygen Reduction

12:00 to 12:05

Ilias Papadopoulos (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-
Nuremberg, Erlangen, Germany), Dominik Thiel, Philipp Haines, Kamil Skonieczny, Daniel T. Gryko, Dirk M.
Guldi

Investigation on the Photophysical Properties of Diketopyrrolopyrroles – Part I

THURSDAY

12:05 to 12:25

Rajneesh Misra (Department of Chemistry, Indian Institute of Technology Indore, Indore, India)

Carbazole Functionalized BODIPYs as a Donor in Bulk Heterojunction Solar Cells

12:25 to 12:30

Arkaitz Fidalgo-Marijuan (BCMaterials / Basque Center for Materials, Applications and Nanostructures, Leioa, Spain), Eder Amayuelas, Gotzone Barandika, Begoña Bazán, Karmele Urtiaga, María Isabel Arriortua

Porphyrin-Based Metal-Organic Frameworks (MOFs): Materials for Heterogeneous Catalysis and Gas Adsorption

THURSDAY

**S22 Hard-Matter Nanoscale Objects for Electro-Optics
and Energy Conversion**
Room "Partenkirchen"



Chaired by Michael Therien

10:00 to 10:20

Dario Bassani (Institute of Molecular Sciences / CNRS, University of Bordeaux, Talence, France), Yang-Fang Chen, Yu-Tang Tsai, Lionel Hirsch

Listening to the Organic within: Experimental Evidence for Proton Tunneling in Hybrid Organic Inorganic Perovskites

10:20 to 10:40

Pravas Deria (Department of Chemistry and Biochemistry, Southern Illinois University, Carbondale, USA), Jierui Yu, Andrea Van Wyk, Tanner Smith

Excited-State Properties of Crystalline Porous Molecular Assembly

10:40 to 11:00

Dirk M. Guldi (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany)

Mediating Reductive Charge Shift Reactions in Electron Transport Chains

11:00 to 11:20

Hiroshi Imahori (Department of Molecular Engineering, Kyoto University, Kyoto, Japan)

Porphyrins as Excellent Sensitizers for Energy and Biological Applications

11:20 to 11:40

Jean-Hubert Olivier (Department of Chemistry, University of Miami, Miami, USA), Chuan Liu, Jared Klutke, Samantha Steefel, Kaixuan Liu

Redox-Assisted Self-Assembly of Zinc(II) Porphyrin to Engineer π -Conjugated Superstructures

11:40 to 12:00

Valentine Vullev (Department of Bioengineering, University of California, Riverside, USA)

Unusual Aspects of Dipole Effects on Charge Transfer

12:00 to 12:10

Artur Vashurin (Department of Inorganic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Mikhail Razumov, Dmitry Erzunov, Anna Filippova, Oscar Koifman

Fine Tuning Synthesis of Poly-Phthalocyanine Systems

12:10 to 12:15

Joffrey Pijeat (Direction de la Recherche Fondamentale, Saclay, Gif sur Yvette, France), Nataliya Kalashnyk, Rémy Plamont, Teodor Silviu Balaban, Sylvain Clair, Pierre Thuery, Stéphane Campidelli

Bottom-Up Synthesis of Porphyrin Based Graphene Nanoribbons and Nanomeshes – Part I

12:15 to 12:20

Fabian Plass (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Axel Kahnt, Fabrice Odobel, Athanassios Coutsolelos, Vasilis Nikolaou

Investigating the Photophysical Properties of Triazole Linked ZnP – C₆₀ Conjugates towards Interfacial Electron Transfer Systems – Part I

12:20 to 12:25

Bingzhe Wang (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Shushu Zheng, Youzhi Xu, Ramandeep Kaur, Muqing Chen, Max von Delius, Xing Lu, Dirk M. Guldi

Supramolecular Porphyrin-Fullerene Architectures – Part I

THURSDAY

S23 Porphyrinoid Based Chemical Sensors

Room "Barcelona"



Chaired by Marcel Bouvet, Corrado Di Natale, and Catherine Hirel

10:00 to 10:20

Charles Devillers (Institut de Chimie Moléculaire, Université de Bourgogne Franche-Comté, Dijon, France), Sébastien Rolle, Sophie Fournier, Dominique Lucas, Frédéric Herbst, Olivier Heintz, Hervé Gibault
Triply-Fused-Like Co(II) Polyporphine Material and its Ability for Sulphite Oxidation Catalysis

10:20 to 10:40

Agata Michalska (Faculty of Chemistry, University of Warsaw, Warsaw, Poland), Ewa Jaworska, Mario Naitana, Emilia Stelmach, Giuseppe Pomarico, Krzysztof Maksymiuk, Roberto Paolesse
Introducing Cobalt(II) Porphyrin / Cobalt(III) Corrole Containing Transducers for Improved Potential Stability and Performance of All-Solid-State Ion-Selective Electrodes

10:40 to 11:00

Antonella Macagnano (Institute of Atmospheric Pollution Research, National Research Council, Monterotondo, Italy), Joshua Avossa, Emiliano Zampetti, Fabrizio De Cesare, Roberto Paolesse, Corrado Di Natale
Tetraphenylporphyrin in a Heterogeneous Nanofibrous Polymer Layer to get Ultra-Sensitive Conductive Sensors

11:00 to 11:20

Maria Grazia Manera (Institute for Microelectronics and Microsystems, National Research Council, Lecce, Italy), Adriano Colombelli, Roberto Rella
Beyond Plasmonic Sensors Based on Organic Macrocycles: From Passive to Active Plasmonics

11:20 to 11:30

Sergey Borisov (Institute of Analytical and Food Chemistry, Graz University of Technology, Graz, Austria), Bernhard Müller, David Pfeifer, Tanja Rappitsch, Lukas Tribuser, Nicole Steinmann, Andreas Russegger, Ingo Klimant
Bright NIR BODIPY Dyes for Fluorescent Sensing of Metal Ions, pH, CO₂ and NH₃

11:30 to 11:40

Akiharu Satake (Department of Chemistry / Faculty of Science Division II, Tokyo University of Science, Shinjuku-ku, Japan)
A Desolvation Sensor Based on Coordination-Organized Supramolecular Porphyrin Arrays

11:40 to 11:45

Manuela Stefanelli (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Gabriele Magna, Donato Monti, Roberto Paolesse, Corrado Di Natale
Expanding the Sensors Design and Sensitivity with Novel Porphyrinoid-Based Hybrid Materials

11:45 to 11:55

Anil Kumar (Department of Applied Chemistry, Delhi Technological University, Delhi, India)
A₂B Corroles: Photophysical Properties and Sensing Ability

THURSDAY

Thursday, July 5, 2018, PM

S17 High-Valent Metal-Oxo and Their Precursor Macrocyclic Complexes: Structure and Reactivity

Room "Barcelona"

Chaired by Wonwoo Nam and Alexander Sorokin

14:00 to 14:20

Hajime Hirao (Department of Chemistry, City University of Hong Kong, Hong Kong, China)
Computationally Looking into the Nature and Reactivity of Metal-Oxo Species

14:20 to 14:40

Jean-Marc Latour (Commissariat à l'Énergie Atomique et aux Energies Alternatives, Grenoble Alpes University, Grenoble, France), Jordan Donat, Jessica Barilone, Martin Clémancey, Serge Gambarelli, Pascale Maldivi
Mechanism of Nitrene Transfer by an Iron Macrocyclic Catalyst

14:40 to 15:00

Tai-Chu Lau (Department of Chemistry, City University of Hong Kong, Hong Kong, China)
C-H Bond Activation by d² Nitrido Complexes

15:00 to 15:20

Wonwoo Nam (Department of Chemistry, Ewha Womans University, Seoul, Korea)
Biomimetic Metal-Oxygen Intermediates in Dioxygen Activation Chemistry

15:20 to 15:40

Kenneth Karlin (Department of Chemistry, Johns Hopkins University, Baltimore, USA), Suzanne Adam, Isaac Garcia Bosch, Savita Sharma
Heme-O₂-Copper Coordination Complex Assemblies: Design, Syntheses, Insights into the O-O Reductive Cleavage Process and Ligand Effects

15:40 to 16:00

Rudi van Eldik (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Magdalena Procner, Lukasz Orzel, Grazyna Stochel
Formation and Reactivity of High-Valent Mn(TPPS)-Oxo Complexes: Redox Cycling, Catalase and Degradation Activities

16:30 to 17:00

Coffee Break

THURSDAY

S24 Electron Transfer and Applications of Tetrapyrrole-Nanocarbon Systems

Room "Sydney"



Chaired by Francis D'Souza and Dirk M. Guldi

14:00 to 14:20

Gary Moore (School of Molecular Sciences / Center for Applied Structural Discovery, Arizona State University, Tempe, USA), Anna Beiler, Diana Khusnutdinova, Brian Wadsworth
Bioinspired Surface Coatings to Enable New Energy Technologies

14:20 to 14:40

Michael Therien (Department of Chemistry, Duke University, Durham, USA), Ting Jiang, Yusong Bai, Nicholas Polizzi, Jeff Rawson
Controlling Excited-State Redox Potential and Dynamics of Panchromatic Absorbers

14:40 to 15:00

Bernard Boitrel (Institut des Sciences Chimiques de Rennes / CNRS, University of Rennes, Rennes, France), Pradip Das, Manel Hanana, Stéphane Le Gac, Bruno Jusselme, Stéphane Campidelli
Iron Strapped Porphyrins on Carbon Nanotubes as Hybrid Materials for the ORR

15:00 to 15:20

Israel Zilbermann (Chemistry Department, Nuclear Research Center Negev, Beer-Sheva, Israel), Amir Mizrahi, Zeev Gross, Leeor Kronik, Woormileela Sinha
On the Redox Chemistry of a Novel (Fe)₂ Biscorrole Complex

15:20 to 15:40

Nikolai Tkachenko (Laboratory of Chemistry and Bioengineering, Tampere University of Technology, Tampere, Finland)
Photoinduced Electron Transfer in Semiconductors Functionalized by Porphyrins and Phthalocyanines

15:40 to 16:00

Giovanni Bottari (Department of Organic Chemistry / Science Faculty, Autonomia University of Madrid, Madrid, Spain), Giulia Lavarda, Julia Guilleme, Beatriz Ballesteros, Tomás Torres, Kim Winterfeld, Dirk M. Guldi
Phthalocyanine- and Subphthalocyanine Donor-Acceptor Ensembles Based on Tetracyanobuta-1,3-diene: Synthesis, Structure, and Physicochemical Properties

16:00 to 16:20

Ángela Sastre-Santos (Instituto de Bioingeniería, Universidad Miguel Hernández, Elche, Spain), Jorge Follana-Berná, Sairaman Seetharaman, Luis Martín-Gomis, Georgios Charalambidis, Adelais Trapali, Paul A. Karr, Athanassios G. Coutsolelos, Fernando Fernández-Lázaro
Synthesis and Photochemical Studies of Supramolecular Complexes of Fused Phthalocyanine-Porphyrin Dyads with C₆₀

THURSDAY

16:20 to 16:25

Ramandeep Kaur (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Stefan Bauroth, Fabio Possanza, Francesca Limosani, Pietro Tagliatesta, Dirk M. Guldi
Understanding and Controlling Short and Long-Range Electron Transfer Processes – Part I

16:25 to 16:30

Woormileela Sinha (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Zeev Gross
Water Oxidation Catalysis by Corrole-Complexes with Abundant Metals – Part I

16:30 to 17:00

Coffee Break

THURSDAY

S27 Photo- and Electro-Catalytic Processes

Room "Ballsaal"

SOLAR TECHNOLOGIES
GO HYBRID

Chaired by Zeev Gross

14:00 to 14:20

Karolien De Wael (Department of Chemistry, Antwerp University, Antwerp, Belgium), Stanislav Trashin, Vanoushe Rahemi, Karpagavalli Ramji, Liselotte Neven, Sergiu Gorun
Singlet Oxygen-Based Electrosensing by Molecular Photosensitizers

14:20 to 14:40

Abhishek Dey (Inorganic Chemistry, Indian Association for the Cultivation of Sciences, Kolkata, India)
Selectivity in CO₂ Reduction by Low Valent Iron Porphyrin Complexes

14:40 to 15:00

Lior Elbaz (Department of Chemistry, Bar-Ilan University, Ramat-Gan, Israel), Ariel Friedman, Naomi Levy, Zeev Gross
Recent Advances in Electrocatalysis of Oxygen Reduction Using Metallo-Corroles

15:00 to 15:20

Günther Knör (Institute of Inorganic Chemistry, Johannes Kepler University Linz, Linz, Austria)
Tetrapyrrole Complexes Acting as Artificial Photoenzymes for Solar Fuel Production and Catalytic C-H Activation

15:20 to 15:40

Atif Mahammed (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Zeev Gross
Corroles as Photo- and Electro-Catalysts for Sustainable Energy

15:40 to 16:00

Jean-Pierre Mahy (Institut de Chimie Moléculaire et des Matériaux d'Orsay / CNRS, Université Paris Saclay / Université Paris Sud, Orsay, France), Rémy Ricoux, Christian Herrero, Atif Mahammed, Zeev Gross, Frederic Banse
Photoassisted Oxidation Reactions Catalyzed by Artificial Hemoproteins in Presence of a [Ru(bpy)₃]²⁺ Chromophore

16:00 to 16:10

Alexandra Fateeva (Laboratoire des Multimatériaux et Interfaces, University of Lyon, Villeurbanne, France)
Insights into the Electrocatalysis of Oxygen Reduction by a Porphyrinic Metal Organic Framework

16:10 to 16:20

Jose H. Zagal (Department of Chemistry of Materials, University of Santiago de Chile, Santiago, Chile), Ingrid Ponce, Federico Tasca
Tuning Metalloporphyrins and Metallophthalocyanines Redox Potentials to Optimize their Electrocatalytic Activity

THURSDAY

16:20 to 16:25

Jakob Pohl (Department of Physics, Humboldt University of Berlin, Berlin, Germany), Beate Röder, Irena Saltsman, Atif Mahammed, Zeev Gross

Photodynamic Inactivation of Phototrophic Microorganisms and Biofilms Using Cationic Photosensitizers

16:25 to 16:30

Zhuo-Yan Wu (College of Chemistry and Molecular Engineering, Peking University, Beijing, China), Yu Rao

Deciphering the Importance of Functional Groups in Natural Tunichlorin Cofactor – Part I

16:30 to 17:00

Coffee Break

THURSDAY

S29 Antimicrobial Photodynamic Therapy

Room "Partenkirchen"

Chaired by *Reza Ghiladi and Kristjan Plaetzer*

14:00 to 14:20

Reza Ghiladi (Department of Chemistry, North Carolina State University, Raleigh, USA), Qingqing Wang, Qufu Wei

From Nanofibers to Textiles: Photosensitizer-Modified Polymers as Anti-Infective Materials

14:20 to 14:40

Adelaide Almeida (Department of Biology / CESAM, University of Aveiro, Aveiro, Portugal), Maria Bartolomeu, Sílvia Reis, Milton Fontes, Graça Neves, Amparo Faustino

Photodynamic Treatment of Wastewater: Inactivation of Microorganisms and Oxidation of Chemical Pollutants

14:40 to 15:00

Vincent Sol (Laboratory Peirene, University of Limoges, Limoges, France), Florent Le Guern, Tan-Sothea Ouk

Photosensitizers Grafted with Polymyxin B Alone or on Polysaccharides for Antimicrobial Photodynamic Therapy Applications

15:00 to 15:20

Santi Nonell (Institut Química de Sarrià, Ramon Llull University, Barcelona, Spain), Cormac Hally, Elena de las Heras, Óscar Gulías, Ingrid Nieves, Montserrat Agut

Photoantimicrobial Porphycene Conjugates

15:20 to 15:40

Kristjan Plaetzer (Department of Biosciences / Laboratory of Photodynamic Inactivation of Microorganisms, University of Salzburg, Salzburg, Austria), Michael Glueck, Christoph Hamminger, Raimund Tenhaken

New Horizons in Crop Protection: Photodynamic Inactivation against Plant Pathogens

15:40 to 15:50

Jonathan Britton (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Olawale Osifeko, Nkosiphile Masilela

Embedding Unsymmetrically Substituted and / or Charged Phthalocyanines in Electrospun Fibres for Antimicrobial and Water Purification

15:50 to 15:55

Rafael Aroso (Department of Chemistry, University of Coimbra, Coimbra, Portugal), Carolina S. Vinagreiro, Janusz M. Dabrowski, Barbara Pucelik, Grzegorz Dubin, Luis G. Arnaut, Mario J.F. Calvete, Mariette Pereira

Structure-Activity Relationships of Cationic Imidazolyl Phthalocyanines for Use as Antimicrobial Agents

15:55 to 16:00

Nedaa Shamali (Department of Physics, Humboldt University of Berlin, Berlin, Germany), Tobias Bornhütter, Ira Saltsman, Zeev Gross, Beate Röder

In vitro Photodynamic Inactivation of Pathogenic Dermatophytes and Molds

16:00 to 16:05

Wangbingfei Chen (Key Laboratory of Eco-Textiles, Jiangnan University, Wuxi, China), Sarah L. Stanley, Qufu Wei, Reza A. Ghiladi, Qingqing Wang

Photoactive Antimicrobial Textiles Based Upon Dual Dye-Colored Fabrics – Part I

16:05 to 16:10

Kristina Sleziakova (Centre of Organic Chemistry Ltd., Rybitvi, Czech Republic), Radka Korinkova, Jiri Cerny, Lubomir Kubac

Smart Polyurethane Nanofibers – Part I

16:30 to 17:00

Coffee Break

THURSDAY

S31 Phthalocyanine Materials for PDT

Room "Atlanta"

Chaired by Dennis K.P. Ng and Pui-Chi Lo

14:00 to 14:20

Pui Chi Lo (Biomedical Sciences, City University of Hong Kong, Hong Kong, China), Di Gao, Roy C.H. Wong, Dennis K.P. Ng

Exploration of Smart Photosensitizing Systems for Targeted Photodynamic Therapy

14:20 to 14:40

João Tomé (Departamento de Engenharia Química, Universidade de Lisboa, Lisboa, Portugal)

Phthalocyanines and their Silica Nanoformulations

14:40 to 15:00

Cornelus van Nostrum (Department of Pharmaceutics, Utrecht University, Utrecht, Netherlands), Yanna Liu, Jos Wennink, Francesca Setaro, Andres de la Escosura, Tomás Torres

Photosensitizers Encapsulated in Polymeric Micelles for PDT: Opportunities and Challenges

15:00 to 15:20

Xuehai Yan (State Key Laboratory of Biochemical Engineering / Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China)

Peptide-Modulated Self-Assembly of Photosensitive Drugs for Antitumor Phototherapy

15:20 to 15:40

Petr Zimcik (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis / Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic), Miloslav Machacek, Jan Kollár, Saad Makhseed

Cationic or Anionic, that is the Question

15:40 to 15:50

Srinivas Banala (Institute for Experimental Molecular Imaging, University Clinic Aachen / RWTH Aachen University, Aachen, Germany), Jean Michel Merkes, Magnus Rueping, Fabian Kiessling

Novel NIR Absorbing BODIPYs for Photoacoustic Imaging

15:50 to 15:55

Edith Dube (Department of Chemistry, Rhodes University, Grahamstown, South Africa), David O. Oluwole, Tebello Nyokong

Improved Photophysical Properties of Thiopheneethoxy Substituted Zn Phthalocyanines Immobilized on Gold-Speckled Silica Nanoparticles – Part I

15:55 to 16:00

Clarence T.T. Wong (Department of Chemistry, Chinese University of Hong Kong, Hong Kong, China), Dennis K.P. Ng, Summer Yin-Yuen Ha, Roy Chi-Hang Wong, Gaole Dai, Shirui Zhao

Versatile Phthalaldehyde-Amine Capture (PAC) Reaction for Effective Phthalocyanine Functionalization and Immobilization

16:30 to 17:00

Coffee Break

S34 Porphyrin-Based Cancer-Imaging and Therapy

Room "Garmisch"

Chaired by Francesca Giuntini and Ross Boyle

14:00 to 14:20

Juan Chen (Princess Margaret Cancer Centre, University Health Network, Toronto, Canada), Gang Zheng
Porphysome Translation for Cancer Imaging and Therapy

14:20 to 14:40

Franck Denat (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Christine Goze, Claire Bernhard, Damien Lhenry, Bertrand Brizet, Martin Ipay, Nicolas Maindron, Victor Goncalves, Bertrand Collin, Olivier Raguin
BODIPY: A Versatile Platform for the Design of Multimodal Imaging Probes

14:40 to 15:00

Fabienne Dumoulin (Chemistry Department, Gebze Technical University, Kocaeli, Turkey)
Phthalocyanine-Based Molecular and Nano Photosensitisers

15:00 to 15:20

Francesca Giuntini (School of Pharmacy and Biomolecular Sciences, Liverpool John Moores University, Liverpool, United Kingdom), Federica Foglietta, Arianna Marucco, Adriano Troia, Nikolai Dezhkunov, Alessandro Pozzoli, Gianni Durando, Ivana Fenoglio, Loredana Serpe, Roberto Canaparo
Ultrasound-Mediated Reactive Oxygen Species Generation by Various Metal-Porphyrin Complexes

15:20 to 15:40

Mariette Pereira (Department of Chemistry, University of Coimbra, Coimbra, Portugal), Vanessa Tomé, Mário Calvete
Potentialities of Tetrapyrrolic Macrocycles in Multimodal Molecular Imaging Modalities

15:40 to 16:00

Beate Roeder (Department of Physics, Humboldt University of Berlin, Berlin, Germany), Michael Pfitzner, Jan Schlothauer, Steffen Hackbarth
Time-Resolved Singlet Oxygen Luminescence Detection *in vivo*

16:00 to 16:10

Miffy Hok Yan Cheng (School of Mathematics and Physical Sciences, University of Hull, Hull, United Kingdom), Ross W. Boyle
Illuminating the Cutting Edge: New Generation Drug Design for Fluorescence Guided Surgery

16:10 to 16:20

Bernhard Spingler (Department of Chemistry, University of Zurich, Zurich, Switzerland), Michele Larocca, Riccardo Rubbiani, Anu Naik, Wenyu Wu, Lukas Schneider, Gilles Gasser
What is the Influence of the Central Metal Atom in Platinum-Porphyrin Conjugates on their Phototoxicity?

THURSDAY

16:20 to 16:30

Amina Yasin (Faculty of Industrial Sciences and Technology, University Malaysia Pahang, Gambang, Malaysia), Vijayakumar Sadasivan Nair, Assa Aravindh Sasikala Devi, Shaheen M. Sarkar, Maryam Hatamimoslehabadi, Somak Mitra, Mohammad Hasbi Ab-Rahim, Jeffrey La, Iman Roqan, Mashitah M. Yusoff, Chandra Yelleswarapu, Jose Rajan

Design, Synthesis, and Characterization of Zn(II)porphyrin as a Contrast Agent for Photoacoustic Imaging

16:30 to 17:00

Coffee Break

THURSDAY

S45 Award Lectures

Room "Ballsaal"



Chaired by Dirk M. Guldi; laudatio: Tomás Torres

17:00 to 18:00

Roeland Nolte (Institute for Molecules and Materials, Radboud University, Nijmegen, Netherlands)
Supramolecular Phthalocyanine Assemblies

THURSDAY

Friday, July 6, 2018, AM

S46 Plenary Lecture Room "Ballsaal"

Chaired by Norbert Jux

08:30 to 09:30

Daniel T. Gryko (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland)
Adventures in the Synthesis of *meso*-Substituted Corroles

09:30 to 10:00

Coffee Break

FRIDAY

S18 Sandwich Tetrapyrrole Rare Earth Materials

Room "Ballsaal"

Chaired by Yongzhong Bian, Yulia Gorbunova, and Jianzhuang Jiang

10:00 to 10:20

Marcel Bouvet (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France)

The Lanthanide Macrocyclic Complexes as Examples of Ambipolar Materials

10:20 to 10:40

Yanli Chen (College of Science, China University of Petroleum / East China, Qingdao, China), Xia Kong, Haoyuan Wang, Jianzhuang Jiang

Self-Assembled Nanostructures of the Sandwich-Type Tetrapyrrole Rare Earth Complexes: Ambipolar Semiconducting and Gas-Sensing Behavior

10:40 to 11:00

Yulia G. Gorbunova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Alexander G. Martynov, Tebello Nyokong, Aslan Yu. Tsivadze

New Materials Based on Conjugates of Sandwich Phthalocyanines with Quantum Dots and Nanoparticles

11:00 to 11:20

Jianzhuang Jiang (Beijing Key Laboratory for Science and Application of Functional Molecular and Crystalline Materials / Department of Chemistry, University of Science and Technology Beijing, Beijing, China)

Sandwich-Type Tetrapyrrole Lanthanide-Based Single Molecule Magnets

11:20 to 11:40

Larisa Tomilova (Department of Chemistry, M.V. Lomonosov Moscow State University, Moscow, Russia), Tatiana Dubinina, Yuliya Korostei, Victor Pushkarev, Elena Kuzmina, Maria Kotova

Advances in the Synthesis and Application of Sandwich-Type Lanthanide(III) Phthalocyanine Complexes

11:40 to 12:00

Masahiro Yamashita (Advanced Institute for Materials Research, Tohoku University, Sendai, Japan)

Quantum Molecular Spintronics Based on Multiple-Decker Phthalocyaninato Tb(III) Single-Molecule Magnets

12:00 to 12:10

Tatiana Dubinina (Department of Chemistry, M.V. Lomonosov Moscow State University, Moscow, Russia), Anton Kosov, Elizaveta Petrusevich, Pavel Tychinsky, Sergey Maklakov, Larisa Tomilova

Sandwich-Type Lanthanide(III) Complexes Containing Aryl- or Aryloxy-Substituted Naphthalocyanine Moiety: Synthesis, Spectral and Electrophysical Properties

12:10 to 12:20

Tianyu Wang (Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Xiqian Wang, Jianzhuang Jiang

Room Temperature Chiral Reorganization of Interfacial Assembly of Achiral Double-Decker Phthalocyanine

FRIDAY

12:20 to 12:25

Alexander G. Martynov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry / Laboratory of Novel Physical-Chemical Problems, Russian Academy of Sciences, Moscow, Russia), Georgy S. Berezhnoy, Marina A. Polovkova, Anna A. Sinelshchikova, Gayane A. Kirakosyan, Mikhail S. Grigoriev, Fedor M. Dolgushin, Victor N. Khrustalev, Yulia G. Gorbunova, Aslan Yu. Tsivadze

Functional Supramolecular Assemblies Based on Sandwich REE(III) Crown-Phthalocyaninates

12:25 to 12:30

Evgeniya Safonova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Alexander Martynov, Yulia Gorbunova, Aslan Tsivadze

Novel Mono- and Double-Decker Crown-Substituted Naphthalocyanines with Absorption in NIR – Part I

FRIDAY

S19 Porphyrin Assemblies on Bioinspired Templates

Room "Partenkirchen"

Chaired by Alessandro D'Urso and Eugen Stulz

10:00 to 10:20

Milan Balaz (Underwood International College / Integrated Science and Engineering Division, Yonsei University, Seoul, Korea), Shambhavi Tannir, Krisztina Varga
Mirror-Image Porphyrin Nanoassemblies Templated by ssDNA

10:20 to 10:40

Nina Berova (Department of Chemistry, Columbia University, New York, USA), Sankar P. Rath, Ana G. Petrovic
Host-Guest Complexes of Chiral and Achiral Dimeric Metalloporphyrins. Insights into Associated Conformational Features and ECD Response

10:40 to 11:00

Vyacheslav Filichev (Institute of Fundamental Sciences, Massey University, Palmerston North, New Zealand)
From Green to Blue: DNA-Based Assemblies for Photochemical Upconversion

11:00 to 11:20

Giorgia Oliviero (Department of Molecular Medicine and Medical Biotechnologies, University of Naples Federico II, Naples, Italy), Alessandro D'Urso, Nicola Borbone, Roberto Purrello, Gennaro Piccialli
Higher-Order G-Quadruplex Structures and Porphyrin Ligands: An Ambiguous Relationship

11:20 to 11:40

Roberto Purrello (Department of Chemical Sciences, University of Catania, Catania, Italy), Danilo Milardi, Grazia Tundo, Diego Sbardella, Massimiliano Coletta, Caterina Fattorusso, Alessandro D'Urso, Anna Maria Santoro
Profiling Proteasome Activity by Porphyrins

11:40 to 12:00

Liliya Yatsunyk (Department of Chemistry and Biochemistry, Swarthmore College, Swarthmore, USA), Yingqi (Linda) Lin, Allan Gao
Structural Studies of Non-Canonical DNA in Complex with Porphyrin Ligands

12:00 to 12:10

Hassan Beyzavi (Department of Chemistry and Biochemistry, University of Arkansas, Fayetteville, USA), Nicolaas Vermeulen, Ashlee Howarth, Samat Tussupbayev, Aaron League, Neil Schweitzer, James Gallagher, Ana Platero-Prats, Nema Hafezi, Amy Sarjeant, Jeffrey Miller, Karena Chapman, Fraser Stoddart, Christopher Cramer, Joseph Hupp, Omar Farha
A Porphyrin-Based Metal-Organic Framework as a Nature-Inspired Tandem Reaction Catalyst

12:10 to 12:15

Mariana Hamer (Instituto de Nanosistemas, University of San Martin, San Martin, Argentina), Peter J. Eaton, Craig Medforth
Interaction of Porphyrin Nanostructures with Hard Templates – Part I

FRIDAY

12:15 to 12:20

Emmanouil Nikoloudakis (Department of Chemistry, University of Crete, Heraklion, Greece), Kostas Karikis, Chrysoula Kokotidou, Georgios Charalambidis, Asterios Charisiadis, Antonios M. Douvas, Anna Mitraki, Athanassios G. Coutsolelos

Self-Assembling Study of PNA-Porphyrin and PNA-BODIPY Hybrids in Mixed Solvent Systems – Part I

FRIDAY

S32 Targeting in PDT Room "Barcelona"



Chaired by Fabienne Dumoulin and Céline Frochot

10:00 to 10:20

Rabah Boukherroub (Institute of Electronics, Microelectronics and Nanotechnology / CNRS, University of Lille, Villeneuve d'Ascq, France), Alexandre Barras, Nadia Skandrani, Gabriel Bidaux, Agnès Pallier, Jean-François Morfin, Tijani Gharbi, Eva Jakab Toth

Lipid Nanocapsules as a Multifunctional Platform: Towards Triggered Deep Photodynamic Therapy

10:20 to 10:40

Norbert Lange (School of Pharmaceutical Sciences, University of Lausanne / University of Geneva, Geneva, Switzerland)

Self-Assembling 5-ALA Derivatives: Current State of the Art and Recent Progress

10:40 to 11:00

Alexander MacRobert (Cancer Nanotechnology Centre / Division of Surgery and Interventional Science, University College London, London, United Kingdom)

Endolysosomally Targeted Photosensitisers for PDT and PCI in 2D and 3D Cancer Models

11:00 to 11:20

Mathias O. Senge (SFI Tetrapyrrole Laboratory / School of Chemistry, Trinity College Dublin, Dublin, Ireland)

Controlling the Generation, Storage, Release and Targeting of Singlet Oxygen in PDT

11:20 to 11:40

Noémie Thomas (Centre de Recherche en Automatique de Nancy / CNRS, Université de Lorraine, Vandoeuvre-les-Nancy, France), Mickaël Gries, Ludovic Colombeau, Eloïse Thomas, Cédric Boura, Thibaut Peterlini, Clélia Mathieu, Régis Vanderesse, Céline Frochot, François Lux, Olivier Tillement, Muriel Barberi-Heyob

Ultrasmall AGuIX Theranostic Nanoparticles for Vascular-Targeted Interstitial Photodynamic Therapy of Glioblastoma

11:40 to 11:45

Alexander Müller (Department of Physics, Humboldt University of Berlin, Berlin, Germany), Annegret Preuß, Isabell Thomas, Agnes Schulze, Beate Röder

Photodynamic Inactivation of Microorganisms *via* Functionalized Microfiltration Membranes

11:45 to 11:50

David O. Oluwole (Department of Chemistry / Centre for Nanotechnology Innovation, Rhodes University, Grahamstown, South Africa), Sello L. Manoto, Patience Mthunzi-Kufa, Tebello Nyokong

Evaluation of the Photophysicochemical Properties and Photodynamic Therapy Effect of Zinc Phthalocyanine-Metallic Nanoparticles Conjugates – Part I

FRIDAY

S35 Heme Proteins and Synthetic Analogues

Room "Atlanta"

Chaired by John Dawson and Takashi Hayashi

10:00 to 10:20

Kara Bren (Department of Chemistry, University of Rochester, Rochester, USA), Jennifer Le, Banu Kandemir, José Luis Alvarez Hernández, Saikat Chakraborty, Rebeckah Burke, Todd Krauss, Vincenzo Firpo, Angela Lombardi

Semisynthetic Cytochromes as Artificial Hydrogenases

10:20 to 10:40

Osami Shoji (Department of Chemistry / Graduate School of Science, Nagoya University, Nagoya, Japan), Hiromu Uehara, Yuma Shisaka, Tsubasa Nishimura, Yoshihiro Miyake, Hiroshi Shinokubo, Hiroshi Sugimoto, Yoshitsugu Shiro, Yoshihito Watanabe

Heme Acquisition Protein HasA with Metal-Phthalocyanine and 5,15-Diphenylporphyrin Derivatives as an Artificial Prosthetic Group

10:40 to 11:00

Trevor Rapson (Commonwealth Scientific and Industrial Research Organisation, Canberra, Australia)

De novo Engineering of Solid-State Heme Proteins

11:00 to 11:20

Shun Hirota (Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Japan), Satoshi Nagao, Masaru Yamanaka, Yoshiki Higuchi

Domain Swapping-Based Assemblies of c-Type Cytochromes

11:20 to 11:40

Michael Green (University of California, Irvine, USA)

Selenocysteine Cytochrome P450 Compound I: A Direct Link between Electron Donation and Reactivity

11:40 to 12:00

Thomas Makris (Department of Chemistry and Biochemistry, University of South Carolina, Columbia, USA)

Selective C-H Bond Functionalization for Non-Ribosomal Peptide Antibiotic Biosynthesis

12:00 to 12:20

Tsunehiko Higuchi (Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, Japan), Kanako Inabe, Hiroshi Suzuki, Yoshinori Shirakawa, Naoki Umezawa, Yosuke Hisamatsu

Role of Thiolate Ligand in Spin State and Redox Switching in the Cytochrome P450 Catalytic Cycle

FRIDAY

S38 Heme Enzymes: Structure and Function

Room "Garmisch"

Chaired by Denis Rousseau and Syun-Ru Yeh

10:00 to 10:20

James Kincaid (Chemistry Department, Marquette University, Milwaukee, USA)

Structural Characterization of Nanodisc-Associated Cytochromes P450 / Reductase Functional Dyads

10:20 to 10:40

Emma Raven (Department of Chemistry / Leicester Institute of Structural and Chemical Biology, University of Leicester, Leicester, United Kingdom), Sofia Kapetanaki, Mark Burton, Nina Storey

A Mechanism for CO Regulation of Ion Channels

10:40 to 11:00

Denis Rousseau (Department of Physiology and Biophysics, Albert Einstein College of Medicine, Bronx, USA), Izumi Ishigami, Ariel Lewis-Ballester, Austin Echelmeier, Gerrit Brehm, Nadia Zatsepin, Thomas Grant, Jesse Coe, Stella Lisova, Garrett Nelson, Shangji Zhang, Zachary Dobson, Sebastien Boutet, Raymond Sierra, Alexander Batyuk, Petra Fromme, Raimund Fromme, John Spence, Alexandra Ros, Syun-Ru Yeh

Structure of a Ferryl Catalytic Intermediate in Cytochrome c Oxidase by Mix and Inject Serial Femtosecond X-ray Crystallography

11:00 to 11:20

Giulietta Smulevich (Department of Chemistry 'Ugo Schiff', University of Florence, Sesto Fiorentino, Italy), Lisa Milazzo, Stefan Hofbauer, Barry D. Howes, Christian Obinger

Coproheme Listeria Monocytogenes HemQ and Selected Mutants to Highlight the Structure Function

11:20 to 11:40

Syun-Ru Yeh (Department of Physiology and Biophysics, Albert Einstein College of Medicine, Bronx, USA)

Structure and Function of Human Indoleamine 2,3-Dioxygenase (IDO) and Tryptophan Dioxygenase (TDO): It Takes Two to Tango

11:40 to 11:50

Constantinos Varotsis (Department of Environmental Science and Technology, Cyprus University of Technology, Lemesos, Cyprus), Antonis Nicolaides, Tewfik Soulimane

Resonance Raman of ba₃ Oxidase from Thermus Thermophilus: Detection of a Low to High-Spin Temperature Transition

FRIDAY

S40 Natural Porphyrinoid Pigments

Room "Sydney"

Chaired by Bernhard Kräutler and Franz-Peter Montforts

10:00 to 10:20

Stuart Ferguson (Department of Biochemistry, University of Oxford, Oxford, United Kingdom)
The Assembly of the Hemes in Cytochrome cd₁ Nitrite Reductase

10:20 to 10:40

Gunhild Layer (Institute of Biochemistry, Leipzig University, Leipzig, Germany), Linda Boss, Ramona Oehme, Claudia Birkemeyer
The Radical SAM Enzyme NirJ Catalyzes the Removal of Two Propionate Groups during Heme d₁ Biosynthesis

10:40 to 11:00

Chengjie Li (Key Laboratory for Advanced Materials and Institute of Fine Chemicals / School of Chemistry and Molecular Engineering, East China University of Science and Technology, Shanghai, China)
On Phyllochromobilins – Colored Bilin-Type Catabolites of Chlorophyll

11:00 to 11:20

Franz-Peter Montforts (Institute of Organic and Analytical Chemistry, University of Bremen, Bremen, Germany)
Heme and Chlorophyll – Renewable Natural Resources for Synthesis of Natural and Artificial Hydroporphyrins

11:20 to 11:40

Hitoshi Tamiaki (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Yusuke Kinoshita, Tadashi Mizoguchi
Di- and Tetrahydrogeranylgeranylated (Bacterio)Chlorophylls as Photosynthetically Active Pigments and their Precursors

11:40 to 12:00

Martin Warren (School of Biosciences, University of Kent, Canterbury, United Kingdom)
Biosynthesis of Cobalamin (Vitamin B₁₂)

12:00 to 12:10

J.L. Ross Anderson (School of Biochemistry, University of Bristol, Bristol, United Kingdom), Richard Stenner, Jack Steventon, Annela Seddon
A Catalytically Proficient, Hyperthermostable *de novo* Peroxidase also Functions as a Stereoselective and Promiscuous Carbene Transferase

12:10 to 12:20

Jianbing Jiang (Department of Chemistry / Energy Sciences Institute, Yale University, West Haven, USA)
A Bacteriochlorin-Zinc Complex for Efficient CO₂ Electroconversion

12:20 to 12:25

Christoph Kieninger (Institute of Organic Chemistry, University of Innsbruck, Innsbruck, Austria), Joe Baker, Florian Widner, Andrew Lawrence, Evelyne Deery, Klaus Wurst, Martin Warren, Bernhard Kräutler
Hydrogenobyrinic Acid – The Metal Free Ligand of B₁₂

12:25 to 12:30

Simone Moser (Department of Pharmacy / Pharmaceutical Biology, Ludwig Maximilian University of Munich, Munich, Germany)

Exploratory Studies on the Physiological Effects of Phyllobilins

FRIDAY

Friday, July 6, 2018, PM

S15 Chiral Aspects of Porphyrin Supramolecular Chemistry

in memory of Silviu Balaban

Room "Sydney"

Chaired by Nina Berova and Roberto Purrello

14:00 to 14:20

Victor Borovkov (Department of Chemistry and Biotechnology, Tallinn University of Technology, Tallinn, Estonia)
Supramolecular Chirogenesis in Porphyrin Based Systems: Recent Developments and Further Perspectives

14:20 to 14:40

Alessandro D'Urso (Department of Chemical Science, University of Catania, Catania, Italy), Massimiliano Gaeta, Rosalba Randazzo, Maria Elena Fragalà, Roberto Purrello
Role of the Templating Agent on the Transfer of Chirality from Molecular to Supramolecular Level

14:40 to 15:00

Nina Berova
Personal notes about Silviu Balaban.

15:00 to 15:20

Maria Elena Fragalà (Department of Chemical Science, University of Catania, Catania, Italy), Massimiliano Gaeta, Rosalba Randazzo, Alessandro D'Urso, Roberto Purrello
Modulation of ZnTPPS Chiral Aggregation by Triggering Polylysine Chain Length

15:20 to 15:40

Naoki Ousaka (Graduate School of Engineering, Nagoya University, Nagoya, Japan), Shinya Yamamoto, Eiji Yashima
Chiral Recognition with a Double-Stranded Bisporphyrin Helicate and its Deracemization

15:40 to 16:00

Sankar Rath (Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, India)
Induction and Rationalization of Supramolecular Chirality Using Bisporphyrin Tweezers: Insights from Experimental and DFT Studies

16:00 to 16:10

Chuanjiang Hu (College of Chemistry / Chemical Engineering and Materials Science, Soochow University, Suzhou, China), Tingting Hu, Zhihao Zhang
Chirality Transfer in Amide-Linked Bisporphyrin Systems

16:30 to 17:00

Coffee Break

FRIDAY

S26 Porphyrinoids for Solar Cells

Room "Ballsaal"



Chaired by Hiroshi Imahori and Hong Wang

14:00 to 14:20

Hwan Kyu Kim (Global GET-Future Laboratory / Department of Advanced Materials Chemistry, Korea University, Sejong, Korea), Sung Ho Kang, Haoran Zhou, Jeong Min Ji
Zn-Porphyrin Sensitizers with Donor and Acceptor Structural Engineering for Superior Performance Dye-Sensitized Solar Cells

14:20 to 14:40

Fernando Langa (Institute of Nanoscience, Nanotechnology and Molecular Materials, University of Castilla-La Mancha, Toledo, Spain), Pilar de la Cruz, Maida Vartanian, Virginia Cuesta, Ganesh D. Sharma
Design and Development of Porphyrins for Organic Photovoltaics

14:40 to 15:00

Yutaka Matsuo (School of Engineering, University of Tokyo, Tokyo, Japan)
Magnesium Tetraethynylporphyrins for Bulk Heterojunction Organic Solar Cells

15:00 to 15:20

Garry Rumbles (Chemistry and Nanoscience, National Renewable Energy Laboratory, Golden, USA), Natalie Pace, Obadiah Reid
Charge Generation in Conjugated Polymer Films Sensitized with Macrocyclic Dopants

15:20 to 15:40

Yongshu Xie (Laboratory for Advanced Materials / Institute of Fine Chemicals, East China University of Science and Technology, Shanghai, China), Pingchun Wei, Kai Zhang, Yueqiang Wang, Yunyu Tang, Jiahui Kong, Miao Li
Syntheses and Applications of Novel Porphyrins and Porphyrinoids

15:40 to 16:00

Christof Wöll (Institute of Functional Interfaces, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany)
Photophysical Properties of Porphyrin-Based, Surface-Anchored Metal-Organic Frameworks (SURMOFs)

16:00 to 16:10

Gloria Cardenas-Jiron (Laboratorio de Quimica Teorica, Universidad de Santiago de Chile, Santiago, Chile), Merlys Borges-Martinez, Cristian Molina, Ricardo Pino-Rios, Raul Mera-Adasme, Ramon Lopez, Maria Isabel Menendez, Tunna Baruah
Tuning the Properties of Porphyrins in Dye-Sensitized Solar Cells by Using Density Functional Theory

16:10 to 16:20

Tomohiro Higashino (Department of Molecular Engineering / Graduate School of Engineering, Kyoto University, Kyoto, Japan), Hiroshi Imahori
Development of Robust Anchoring Groups for Durable Porphyrin-Sensitized Solar Cells

FRIDAY

16:20 to 16:30

Sankar Jeyaraman (Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, India), Ruchika Mishra, Ramprasad Regar, Ganesh D. Sharma

Unsymmetrical Porphyrin-Perylenebisimide Conjugates for Bulk Heterojunction Solar Cells

16:30 to 17:00

Coffee Break

FRIDAY

S35 Heme Proteins and Synthetic Analogues

Room "Partenkirchen"

Chaired by John Dawson and Takashi Hayashi

14:00 to 14:20

Christian Obinger (Department of Chemistry, University of Natural Resources and Life Sciences, Vienna, Austria), Irene Schaffner, Giulietta Smulevich, Gianantonio Battistuzzi, Paul Furtmüller
Molecular Mechanism of Enzymatic Chlorite Degradation

14:20 to 14:40

Koichiro Ishimori (Department of Chemistry, Faculty of Science, Hokkaido University, Sapporo, Japan)
Structural and Functional Significance of Heme Binding as a Signaling Molecule in Iron Regulator Proteins (IRPs)

14:40 to 15:00

Shigetoshi Aono (Institute for Molecular Science, National Institutes of Natural Sciences, Okazaki, Japan)
Structural Analyses of the Heme Uptake Machinery in *Corynebacterium Glutamicum*

15:00 to 15:20

Ekaterina Pletneva (Department of Chemistry, Dartmouth College, Hanover, USA)
Ligands, Protons, Neighboring Redox Centers, and Protein Fold in Electron-Transfer Reactions of Heme Proteins

15:20 to 15:40

Paola Turano (CERM / Department of Chemistry, University of Florence, Sesto Fiorentino, Italy)
About Surface Properties of Proteins and their Interactome: An NMR Approach

15:40 to 16:00

Kyle Lancaster (Department of Chemistry and Chemical Biology, Cornell University, Ithaca, USA)
Mechanistic Details Concerning Hydroxylamine Oxidation by Heme P460 Cofactors

16:00 to 16:20

Hiroaki Kitagishi (Department of Molecular Chemistry and Biochemistry, Doshisha University, Kyotanabe, Japan)
Synthetic Analogues of Heme Enzymes in Water

16:30 to 17:00

Coffee Break

FRIDAY

S42 Chemistry and Biology of Chlorophylls and Bacteriochlorophylls

Room "Atlanta"

Chaired by Mathias O. Senge and Hioshi Tamiaki

14:00 to 14:20

Hugo Scheer (Department Biology 1, Ludwig Maximilian University of Munich, Munich, Germany), Bernhard Monien, Heike Kunze-Snigula, Friedel Drepper, Niels de Jonge, Wolfgang Haehnel
Binding of Bacteriochlorophyllides with Different Central Metals by Modular Four-Helix Bundle Proteins

14:20 to 14:40

Yuichi Fujita (Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan), Yoshiki Morimoto, Masanori Yamamoto, Norito Esaka, Hisanori Yamakawa, Yuichi Fujita
Assembly of the Catalytic Component, NB Protein, of Dark-Operative Protochlorophyllide Oxidoreductase

14:40 to 15:00

Dror Noy (Migal – Galilee Research Institute, Kiryat Shmona, Israel), Vadivel Prabahar, Livnat Jurnou, Yigal Lahav, Igor Schapiro
Spectral Tuning Mechanisms in Class II Water-Soluble Chlorophyll-Binding Proteins from Brassicaceae (WSCP)

15:00 to 15:20

Jiro Harada (Department of Biochemistry / School of Medicine, Kurume University, Kurume, Japan), Tadashi Mizoguchi, Yutaka Shibata, Ken Yamamoto, Hitoshi Tamiaki
Chlorosomal Pigment Bacteriochlorophyll *e* in Brown-Colored Green Sulfur Bacteria

15:20 to 15:40

Leszek Fiedor (Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Kraków, Poland), Mariusz Pilch, Alina Dudkowiak
The Type of Bonding to the Central Metal Ion Governs the Properties of Metallochlorophylls

15:40 to 16:00

Hisashi Ito (Institute of Low Temperature Science, Hokkaido University, Sapporo, Japan)
Analysis of Plant Mg-Dechelataase Involved in Chlorophyll Degradation

16:00 to 16:05

Kota Ohashi (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Yusuke Kinoshita, Hitoshi Tamiaki
Synthesis of Chlorophyll-*a* Derivatives Possessing the 3-(2-Acylethenyl) Group by Cross-Aldol Condensation and their Optical Properties

16:30 to 17:00

Coffee Break

FRIDAY

S43 Theory and Spectroscopy

Room "Barcelona"

Chaired by Nagao Kobayashi and Martin J. Stillman

14:00 to 14:20

Heike Fliegl (Department of Chemistry, University of Oslo, Oslo, Norway)

Theoretical Studies of Magnetically Induced Currents as a Tool for Understanding the Aromatic Character of Porphyrinoid Compounds

14:20 to 14:40

Dongho Kim (Department of Chemistry, Yonsei University, Seoul, Korea)

Unravelling of Baird's Rule *via* Vibrational Analysis: Reversal of Aromaticity in the Excited-Singlet States

14:40 to 15:00

Leeor Kronik (Department of Materials and Interfaces, Weizmann Institute of Science, Rehovoth, Israel)

Electronic Structure of Metal-Organic Complexes from an Optimally-Tuned Range-Separated Hybrid Functional

15:00 to 15:20

Atsuya Muranaka (Elements Chemistry Laboratory, RIKEN, Wako, Japan), Yoshinao Shirasaki, Takara Yagi, Masanobu Uchiyama

Relationship between Paratropic Ring Current Effect and the HOMO-LUMO Gap in 20π -Electron Hemiporphyrazine

15:20 to 15:40

Jacek Waluk (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland)

Hydrogen Tunneling in Porphyrin Isomers: From Ensemble Studies to Single Molecules

15:40 to 16:00

Yuhlong Oliver Su (Department of Applied Chemistry, National Chi Nan University, Nantou, Taiwan), Thai T.H. Tran, Meng-Ru Gan, Yi-Ping Tzeng, Hsin Shaw, Tuan K.A. Hoang, Ming-Yu Kuo

Experimental and Computational Study on the Electrochemistry of *meso*-Tetrasubstituted Porphyrins: Effects of Resonance and Inductive Substituents

16:30 to 17:00

Coffee Break

FRIDAY

S45 Award Lectures

Room "Ballsaal"



Chaired by Dirk M. Guldi, laudatio: Dirk M. Guldi

17:00 to 18:00

Jonathan L. Sessler (Department of Chemistry, University of Texas at Austin, Austin, USA), Jong Seung Kim,
Hyo Sung Jung
Chemical Efforts to Improve Photodynamic Therapy

Closing Ceremony

Room "Ballsaal"

18:00 to 18:15

FRIDAY

Symposia of Poster Session 1 - Tuesday, July 3, 2018

- | | |
|---|--|
| S01 Corroles | S13 Phthalocyanines and Related Systems |
| S02 Phthalocyanines and Related Systems | S14 Optical, Electrical and Optoelectronic Phenomena in Porphyrins and Phthalocyanines |
| S03 Porphycenes | S17 High-Valent Metal-Oxo and Their Precursor Macrocyclic Complexes: Structure and Reactivity |
| S04 SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids | S28 Biomimetic Solar Conversion |
| S05 Functionalization of Porphyrins | S30 Porphyrin Derivatives for Medical/Biological Applications |
| S06 NIR-Responsive Porphyrinoids | S37 Chemistry, Properties, and Applications of Corrinoids and Related Compounds |
| S09 Novel Pyrrolic Macrocycles and Chromophores | |
| S10 Metalloporphyrinoids | |
| S11 Exotic Coordination Chemistry of Porphyrinoid Systems | |
| S12 Corrole – Properties | |

Symposia of Poster Session 2 - Thursday, July 5, 2018

- | | |
|---|---|
| S07 Porphyrazines | S25 Catalytic Chemical Transformations by Metalloporphyrins |
| S08 BODIPY Dyes | S26 Porphyrinoids for Solar Cells |
| S15 Chiral Aspects of Porphyrin Supramolecular Chemistry | S27 Photo- and Electro-Catalytic Processes |
| S18 Sandwich Tetrapyrrole Rare Earth Materials | S29 Antimicrobial Photodynamic Therapy |
| S19 Porphyrin Assemblies on Bioinspired Templates | S31 Phthalocyanine Materials for PDT |
| S20 Porphyrin Assemblies in Confined Space | S32 Targeting in PDT |
| S21 Nanomaterials for Energy Conversion, Storage and Catalysis | S34 Porphyrin-Based Cancer-Imaging and Therapy |
| S22 Hard-Matter Nanoscale Objects for Electro-Optics and Energy Conversion | S35 Heme Proteins and Synthetic Analogues |
| S23 Porphyrinoids Based Chemical Sensors | S38 Heme Enzymes: Structure and Function |
| S24 Electron Transfer and Applications of Tetrapyrrole-Nanocarbon Systems | S42 Chemistry and Biology of Chlorophylls and Bacteriochlorophylls |
| | S43 Theory and Spectroscopy |

Tuesday, July 3, 2018 - Poster Session I

Basement | Ground floor | First floor



18:00 to 20:00

S01 Corroles

S01-P-001

Martina Bischetti (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Giuseppe Pomarico, Federica Mandoj, Roberto Paolesse, Daniel Oscar Cicero

NMR Kinetic and Thermodynamic Characterization of Aryl Rings Rotation in *meso*-Triarylcorroles

S01-P-002

Fabrizio Caroleo (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Gabriele Magna, Sara Nardis, Francesca Zurlo, Roberto Paolesse

Novel Strategy to Synthesize 5,10,15-Tris(4-sulfonatophenyl)corrole

S01-P-003

Qiucheng Chen (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Zeev Gross

Novel Synthetic Pathway and Properties of Trifluoromethyl Substituted Contracted and Expanded Porphyrins

S01-P-004

Nicolas Desbois (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Valentin Quesneau, Xiaoqin Jiang, Stéphane Brandès, Meddy Vanotti, Virginie Blondeau Patissier, Karl M. Kadish, Claude P. Gros

Ligated Cobalt Corroles: Electrochemical and Spectral Characterization for Carbon Monoxide (CO) Detection

S01-P-005

Sabrina Gonglach (Institute of Organic Chemistry, Johannes Kepler University, Linz, Austria), Shounik Paul, Michael Haas, Felix Pillwein, Sreejith S. Sreekumar, Soumitra Barman, Ratnadip De, Wolfgang Schöfberger, Soumyajit Roy

Selective Electro-Reduction of CO₂ to Ethanol Using a Co-Corrole Complex at a Low Cost of Energy

S01-P-006

Michael Haas (Institute of Organic Chemistry, Johannes Kepler University, Linz, Austria), Sabrina Gonglach, Stefan Mülleger, Wolfgang Schöfberger

Increasing the π -Electron Conjugation of A₂B-Corroles *via* Sila-Sonogashira-Cross-Coupling

S01-P-007

Niels Klein (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), Kristin Kleeberg, Frédérique M. Brégier, Martin Bröring

Investigations towards Oxocorroles

S01-P-008

Vitali Kuhn (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Germany), S. Bahnmüller, C. Bas, M.-K. Zaretske, M. Bröring
Synthesis of Metalated 10-Azacorroles

S01-P-009

Víctor Mariñas (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Sara Nardis, Roberto Paolesse, Tomás Torres
Subphthalocyanine-Corrole Marriage for Energy Conversion Systems

S01-P-010

Nadine Meyer (Department of Chemistry, University of the Free State, Bloemfontein, South Africa), Jannie C. Swarts
Electrochemical and Spectroscopic Studies of Sterically Hindered Corroles and their Gold(III) Complexes

S01-P-011

Bradley Musselman (Department of Chemistry, University of Michigan, Ann Arbor, USA), Nicolai Lehnert
Catalytic Group Transfer Reactions with Cobalt(III) Corroles

S01-P-012

Rafał Orłowski (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Michał K. Cyrański, Daniel T. Gryko
Amide-Functionalized Self-Assembling

S01-P-013

Jeyaraman Sankar (Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, India), Biju Basumatary, R.V. Ramana Reddy, Rahul Rahul
Lateral π -Extension of Corroles

S01-P-014

Matan Soll (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Tridib Goswami, Irena Saltsman, Mona Shahgholi, Punrajit Lim, Angel J. Di Bilio, John Termini, Harry B. Gray, Zeev Gross
Easily Formed Bioconjugates Composed of Native Proteins and Corroles

S01-P-015

Kento Ueta (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan), Masaya Fukuda, Gakhyun Kim, Soji Shimizu, Takayuki Tanaka, Dongho Kim, Atsuhiko Osuka
meso-Aryl Corrole Silicon(IV) Complexes

S01-P-016

Pinky Yadav (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Matan Soll
Tris(trifluoromethyl)corrole

S01-P-017

Marc-Kevin Zaretske (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), Peter N. Schweyen, Benedikt Wolfram, Martin Bröring
Corrolocenes: Corrole Sandwich Complexes

S02 Phthalocyanines and Related Systems

S02-P-001

Tatjana Ageeva (Research Institute of Macroheterocycles, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Elena S. Golovashova, Evgeny V. Kudrik, Oscar I. Koifman

Organometallic Framework Compounds Based on Metal Phthalocyanines – Catalysts for Oxidation Reactions of Natural Compounds

S02-P-002

Vefa Ahsen (Chemistry Department, Gebze Technical University, Kocaeli, Turkey), Gülçin Ekineker, Fabienne Dumoulin

AABB Push-Pull Phthalocyanines

S02-P-003

Gabriel Canard (Centre Interdisciplinaire de Nanosciences de Marseille, Aix-Marseille University, Marseille, France), Lucien Lavaud, Simon Pascal, Khaled Metwally, Damien Gasteau, Anabela Da Silva, Olivier Siri

N-Aryl vs. N-Alkyl: How a Subtle Modification of the Peripheral Substituents Impacts the Self-Assembly of Azacalixpyrins and their Photoacoustic Properties

S02-P-004

Lei Cong (Department of Chemistry, University of Houston, Houston, USA), Gaurav Kumar, Nivedita Chaudhri, Muniappan Sankar, Karl M. Kadish

Intriguing Electrochemistry and Spectroscopic Properties of π -Extended Porphyrins

S02-P-005

Di Gao (Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, China), Pui-Chi Lo

Polymeric Micelles Encapsulating pH-Responsive Doxorubicin Prodrug and Glutathione-Activated Zinc(II) Phthalocyanine for Combined Chemotherapy and Photodynamic Therapy

S02-P-006

Yuliya Korostei (Department of Chemistry, M.V. Lomonosov Moscow State University, Moscow, Russia), Alexander Yu. Tolbin, Alexander V. Dzuban, Victor E. Pushkarev, Marina V. Sedova, Sergey S. Maklakov, Larisa G. Tomilova

Selective Synthesis of A₃B Type Phthalocyanine Aluminum Complex and its Stable Supramolecular J-Dimer

S02-P-007

Elena Kuzmina (Department of Chemistry, M.V. Lomonosov Moscow State University, Moscow, Russia), Tatiana V. Dubinina, Nataliya E. Borisova, Larisa G. Tomilova

Halogen-Substituted Lanthanide(III) Phthalocyaninates: Synthesis and Optical Properties

S02-P-008

Leandro M.O. Lourenço (Department of Chemistry / QOPNA, University of Aveiro, Aveiro, Portugal), João P.C. Tomé, Tomás Torres, Dirk M. Guldi

Supramolecular Self-Assembly of Thiopyridyl-Phthalocyanines with Ruthenium Phthalocyanines

S02-P-009

Alena Malyasova (Ivanova State University of Chemistry and Technology, Ivanova, Russia), Serafima A. Znoyko, Ekaterina A. Kostrova, A.I. Petlina, Artur S. Vashurin

Fluorescent Properties of Flying-Seed-Like Phthalocyanines

S02-P-010

Luis M. Mateo de Doni (Department of Organic Chemistry, Autonoma University of Madrid, Madrid, Spain), Giovanni Bottari, Beatriz Ballesteros, Beatrice Berionni Berna, Tomás Torres

Hydrogen Bonding and π -Stacking-Induced Self-Assembly of Picolinic Acid-Substituted Phthalocyanine Derivatives

S02-P-011

Mucahit Ozdemir (Chemistry Department, Marmara University, Istanbul, Turkey), Mustafa Bulut, Bahattin Yalçın
Zinc(II) and Chloroindium(III) Phthalocyanines Bearing 7-Oxy-3-ethyl-4-methyl-6-hexylcoumarin Groups: Synthesis, Characterization and Investigation of their Photophysicochemical Properties

S02-P-012

Miguel Ángel Revuelta Maza (Department of Organic Chemistry, Autonoma University of Madrid, Madrid, Spain), Gema de la Torre, Tomás Torres

Synthesis of A_2B_2 -Type Functionalized Phthalocyanines as Photosensitizer Synthons for Singlet Oxygen Generation

S02-P-013

Songül Sahin (Department of Chemistry, Ondokuz Mayıs University, Samsun, Turkey), Ferda Erşahin, Erbil Ağar
Investigating of Spectroscopic Properties and Synthesis of Phthalocyanine Containing some Aza Group

S02-P-014

Songül Sahin (Department of Chemistry, Ondokuz Mayıs University, Samsun, Turkey), Ferda Erşahin, Erbil Ağar
Investigating of Spectroscopic Properties and Synthesis of Phthalocyanines Substituted with 2,2'-Methylenebis(4-chlorophenoxy)

S02-P-015

Tatyana Tikhomirova (Ivanova State University of Chemistry and Technology, Ivanova, Russia), Serafima A. Znoyko, Vladimir E. Maizlish, Artur S. Vashurin

Synthesis and Properties of Cobalt(II) Carboxyphenoxy / Thio / Aminophthalocyanines

S03 Porphycenes

S03-P-001

Daiki Koga (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Toshikazu Ono, Yoshio Hisaeda

meso-Dicycloalkylporphycenes as Unique Porphyrin Isomer

S03-P-002

Arkadiusz Listkowski (Faculty of Mathematics and Natural Sciences / College of Science, Cardinal Stefan Wyszyński University, Warsaw, Poland), Natalia Masiera, Jakub Raćkowski, Jacek Waluk

Novel Porphycenes: Synthesis and Properties

S04 SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids

S04-P-001

Krzysztof Bartkowski (Department of Chemistry, University of Wrocław, Wrocław, Poland), Miłosz Pawlicki
Benzoheterocycles Fused with Oxatriphyrin(2.1.1)

S04-P-002

Esmeralda Bukuroshi (Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Canada), Alan J. Lough, Timothy P. Bender
Fluorinated Boron Subphthalocyanines: Clarification on the Chemistry, Full Fluoride Exchange Process and Property Assessment

S04-P-003

Annelmie Crause (Department of Chemistry, University of the Free State, Bloemfontein, South Africa), Jannie C. Swarts
Synthesis, Spectroscopic and Electrochemical Properties of Contracted and Expanded Porphyrins

S04-P-004

Lorena Höfer (Institute for Chemistry / Center for Interdisciplinary Nanostructure Science and Technology, University of Kassel, Kassel, Germany), Roman Münnich, Rüdiger Faust
Axially Modified Subporphyrazines as Singlet Oxygen Storage Systems

S04-P-005

Koki Kise (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan), Atsuhiko Osuka
Synthesis and Characterization of Diarylamine-Fused Subporphyrins

S04-P-006

Giulia Lavarda (Department of Organic Chemistry, Autònoma University of Madrid, Madrid, Spain), Johannes Zirzmeier, Marco Gruber, Rik Tykwinski, Tomás Torres, Dirk M. Guldi
Panchromatic Promotion of Molecular Singlet Exciton Fission in Subphthalocyanine Based Conjugates

S04-P-007

Ryo Nozawa (Graduate School of Engineering, Nagoya University, Nagoya, Japan), Ichiro Hisaki, Won Young Cha, Dongho Kim, Hiroshi Shinokubo
Synthesis and Properties of a Norcorrole Cyclophane

S04-P-008

Wenqian Shan (Department of Chemistry, University of Houston, Houston, USA), Sandrine Pacquelet, Yi Chang, Nicolas Desbois, Claude Gros, Karl M. Kadish
Electrochemistry and Spectroelectrochemistry of Cobalt Bis(phenolate)dipyrrins

S04-P-009

Ivan Skvortsov (Department of Organic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Oleg Razgonyaev, Anton Popov, Nikolay Somov, Pavel Stuzhin
Synthesis and Characterization of Azaanalogues of Boron(III) Subphthalocyanines

S04-P-010

Pieter J. Swarts (Department of Chemistry, University of the Free State, Bloemfontein, South Africa), Jeanet Conradie, Jannie C. Swarts

Synthesis, Electrochemical and Spectroscopic Studies on New Subphthalocyanines

S04-P-011

Yemei Wang (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Koya Uchihara, Hiroyuki Furuta, Soji Shimizu

Synthesis of a Series of Tetrathiafulvalene-Fused Subphthalocyanine and their Supramolecular Columnar Assembly Formation

S05 Functionalization of Porphyrins

S05-P-001

Aleksandr Baklanov (Department of Physics, Technical University of Munich, Garching, Germany), Manuela Garnica, Knud Seufert, Marie-Laure Bocquet, Willi Auwärter

On-Surface Synthesis of Si-Porphyrins

S05-P-002

Nivedita Chaudhri (Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, India), Nivedita Chaudhri, Nitika Grover

β -Functionalized Fused Chlorins and Porphyrins: Facile Synthesis, Spectral and Electrochemical Redox Properties

S05-P-003

Agnieszka Hassa (Department of Chemistry, University of Wrocław, Wrocław, Poland), Natasza Sprutta, Stanisław Krasicki, Karolina Kodz-Wichowska, Kamil Kupietz, Lechosław Latos-Grazynski

Incorporation of *p*-Phenylene Unit into Azuliporphyrinogen Frame

S05-P-004

Kyeong-Im Hong (Department of Chemistry, Yonsei University, Seoul, Korea), Hongsik Yoon

Triazole-Bearing Nickel(II) Porphyrin Host Having Strong Allostereism with Cyanide

S05-P-005

Kenichi Kato (Graduate School of Science, Kyoto University, Kyoto, Japan), Ko Furukawa, Atsuhiko Osuka

Stable Trimethylenemethane Diradical Embedded in Porphyrin-Based Fused π -Framework

S05-P-006

Oskar Koifman (Research Institute of Macrocyclics / Russia International Research Laboratory on Nanomaterials, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Vladimir Sheinin, Olga Kulikova

Water-Soluble Derivative of Methylated N-Confused Porphyrin: Synthesis, Base Properties and Self-Assembly Peculiarities

S05-P-007

Beata Koszarna (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Agnieszka Nowak-Król, Jerzy Romiszewski, Mikhail Drobizhev, Geoffrey Wicks, Maciej Chotkowski, Aleksander Rebane, Ewa Górecka, Daniel T. Gryko

Strong Two-Photon Absorption Enhancement in a Uniquibis-Porphyrin Bearing a Diketopyrrolopyrrole Unit

S05-P-008

Mikalai Kruk (Physics Department, Belarusian State Technological University, Minsk, Belarus), Lizaveta Liulkovich, Svetlana Pukhovskaya, Yulia Ivanova, Alexander Semeikin

Atropoisomerization of the Free Base 5,10,15,20-Tetrakis-(3-N-methylpyridyl)-Porphyrin in Solution

S05-P-009

Francesca Limosani (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Fabio Possanza, Pietro Tagliatesta, Manuela Scarselli, Erica Ciotta, Roberto Pizzoferrato, Robertino Zaroni

Synthesis, Characterization and Functionalization of Carbon Spheres with Porphyrins

S05-P-010

Max Martin (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Norbert Jux

Porphyrin-Hexaarylbenzene-Hexabenzocoronene Conjugates

S05-P-011

Alina Meindl (SFI Tetrapyrrole Laboratory / School of Chemistry, Trinity College Dublin, Dublin, Ireland), Aoife A. Ryan, Atillo A. Cafolla, Mathias O. Senge

Towards Functional π -Extended Porphyrins – Solution and Surface Chemistry of Porphyrin Nanostructures

S05-P-012

Alina Meindl (SFI Tetrapyrrole Laboratory / School of Chemistry, Trinity College Dublin, Dublin, Ireland), Mathias O. Senge

Methodologies towards the Synthesis and Functionalization of Unsymmetrical Push-Pull Porphyrins

S05-P-013

Jakub Ostapko (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland), Aleksander Gorski, Magdalena Ceborska, Mariusz Pietrzak, Grażyna Orzanowska, Jacek Waluk

1,3,5,7-Cyclooctatetraene Functionalized Porphyrins as Ultrabright and Photostable Emitters; Synthesis and Spectroscopy

S05-P-014

James Oyim (University of Nairobi, Nairobi, Kenya), Edith Amuhya, Pitchou Ngoy

Synthesis and Photophysical Studies of 5,10,15,20-Tetrakis [4-(benzyloxy)phenyl] Porphyrinato Indium(III) Chloride and its F127 Pluronic Micelle Capsules

S05-P-015

Fabio Possanza (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Francesca Limosani, Pietro Tagliatesta, Erica Ciotta, Roberto Pizzoferrato

Synthesis and Characterization of New Porphyrin Triads

S05-P-016

Marie Roucan (SFI Tetrapyrrole Laboratory / School of Chemistry, Trinity College Dublin, Dublin, Ireland), Keith J. Flanagan, Mathias O. Senge

N-Substituted Porphyrins

S05-P-017

Michael Ruppel (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Dominik Lungerich, Rainer Lippert, Marcus Speck, Norbert Jux

Improved Synthesis and Investigation of Structural, Optical and Electrochemical Properties of Functionalized Tetrabenzoporphyrins

S05-P-018

Muniappan Sankar (Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, India), Pinki Rath

Asymmetric β -Substituted Porphyrins: Synthesis, Spectral and Electrochemical Redox Properties

S05-P-019

Sergey Syrbu (G.A. Krestov Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia), Nataliya Lebedeva, Yuriy Gubarev, Elena Yurina, Yuliya Veselova, Aleksey Lyubimtsev

Specific Solvation of the 5,10,15,20-Tetrakis [(4- (β -D-galactosyl) phenyl)] Porphyrin by Alcohols

S05-P-020

Sergey Syrbu (G.A. Krestov Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia), Tatyana Lomova, Ekaterina Ovchenkova, Natalia Bichan, Alexander Ksenofontov, Elena Motorina

Coordination Porphyrin / Phthalocyanine – Fullerenes as Photosynthetic Antenna Imitators

S05-P-021

Asahi Takiguchi (Department of Molecular and Macromolecular Chemistry / Graduate School of Engineering, Nagoya University, Nagoya, Japan), Satoru Hiroto

Synthesis and Properties of β, β' -Doubly-Aza-Linked Porphyrin Dimers

S05-P-022

Damaris Thuita (Department of Chemistry, University of Connecticut, Storrs, USA), Michael Luciano, Christian Brückner

A Novel, Unexpected, and Most Efficient Path of Converting Porphyrins to Porpholactams

S05-P-023

Artur Vashurin (Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Mikhail Razumov, Linda Götzke, Dmitry Erzunov, Svetlana Pukhovskaya, Yuliya Ivanova, Jan Weigand

Synthesis and Acid-Base Properties of 5,10,15,20-Tetraphenyl-21-thia- and 5,10,15,20-Tetraphenyl-21,23-dithiaporphyrins in Acetonitrile

S05-P-024

Robby Vroemans (Department of Chemistry, Catholic University of Leuven, Heverlee, Belgium), My Tran Thi Dieu, Mian Gul Sayed, Stijn Boodts, Wim Dehaen

Synthesis and Characterization of Novel Axially Chiral β -Linked 1,2,3-Triazolyl Porphyrins

S05-P-025

Takayuki Yamamoto (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan), Daiki Shimizu, Ko Furukawa, Atsuhiko Osuka

Synthesis and Properties of Phenylene-Bridged Porphyrin *meso*-Oxy Radical Oligomers

S06 NIR-Responsive Porphyrinoids

S06-P-001

Cagla Bas (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), Peter Schweyen, Jens Krumsieck, Martin Bröring

One-Pot Synthesis of Zinc Isoporphyrins

S06-P-002

Norihito Fukui (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan), Atsuhiro Osuka

1,2-Phenylene-Inserted Porphyrin Arch-Tape Dimers

S06-P-003

Jens Krumsieck (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), Dirk Baabe, Cagla Bas, Peter Schweyen, Martin Bröring

Cobalt-Isoporphyrins

S06-P-004

Yingying Ning (College of Chemistry and Molecular Engineering, Peking University, Beijing, China), Ji-Yun Hu, Yi-Wei Liu, Jing-Xiang Wang

Design of Functional NIR Emissive Ytterbium(III) Porphyrins – Part II

S06-P-005

Hiroto Omori (Department of Molecular and Macromolecular Chemistry / Graduate School of Engineering, Nagoya University, Nagoya, Japan), Satoru Hiroto, Youhei Takeda, Satoshi Minakata, Hiroshi Shinokubo

Synthesis of 10-Silacorroles and 10-Phosphacorroles Exhibiting NIR Absorption

S06-P-006

Poornenth Pushpanandan (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Masatoshi Ishida, Hiroyuki Furuta

Synthesis of Doubly N-Confused Calix[6]phyrin(1.1.1.1.1.1) Organopalladium(II) Complexes as Photosensitizers for Singlet Oxygen Generation

S06-P-007

Daiki Shimizu (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan), Atsuhiro Osuka

A Benzene-1,3,5-triaminyl Radical Fused with Zn(II)-Porphyrins: Remarkable Stability and High Spin Quartet Ground State

S06-P-008

Iwamoto Takayuki (Graduate School of Natural and Technology, Kanazawa University, Kanazawa, Japan), Hajime Maeda, Masahito Segi, Taniyuki Furuyama

Versatile Synthesis of Functionalized NIR Light-Absorbing Phthalocyanines

S09 Novel Pyrrolic Macrocycles and Chromophores

S09-P-001

Adil. S. Aslam (Department of Chemistry, Inha University, Incheon, Korea), Min-Sung Ko, Dong-Gyu Cho

A New Phlorin from *meso*-Fused Anthriporphyrin

S09-P-002

Anna Berlicka (Department of Chemistry, University of Wrocław, Wrocław, Poland), Michal J. Bialek, Lechoslaw Latos-Grazynski

Dimerization of 21-Carba-23-thiaporphyrin Leading to Porphyrin Arrays with a Unique Architecture

S09-P-003

Nicolas Desbois (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Wenqian Shan, Valentin Quesneau, Claude P. Gros, Yoann Rousselin, Karl M. Kadish

Synthesis and Electrochemistry of *meso*-Aryl Substituted Open-Chain Pentapyrroles and Sapphyrins

S09-P-004

Tridib Sarma (Center for Supramolecular Chemistry and Catalysis, Shanghai University, Shanghai, China), Jonathan L. Sessler

Redox Switching in an Annulated π -Extended Core Modified Octaphyrin

S09-P-005

Ji-Young Shin (Department of Molecular and Macromolecular Chemistry, Nagoya University, Nagoya, Japan), Nathan H. Faialaga, Hiroshi Shinokubo

Synthesis of Novel Expanded Porphyrinoids: Ni(II)-Induced Nitrile Cyclization of Dicyanovinylene-Bis(*meso*-aryl)dipyrin

S09-P-006

Masaaki Suzuki (Interdisciplinary Graduate School of Science and Engineering, Shimane University, Matsue, Japan), Masato Imafuku, Yutaka Nishigaichi

Synthesis and Metalation of Bromine-Terminated Acyclic Oligo-Pyrrolic Ligands

S09-P-007

Wataru Suzuki (Department of Chemistry / Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan), Hiroaki Kotani, Tomoya Ishizuka, Yoshihito Shiota, Kazunari Yoshizawa, Takahiko Kojima

Formation and Isolation of a Novel Porphyrinoid by Further Two-Electron Reduction of a 20π Isophlorin

S09-P-008

Masataka Umetani (Department of Chemistry / Graduate School of Science, Kyoto University, Kyoto, Japan), Takayuki Tanaka, Atsuhiko Osuka

Synthesis of Novel Heteroporphyrinoids Using Dibromotripyrrin as a Precursor

S09-P-009

Songlin Xue (Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Japan), Daiki Kuzuhara, Naoki Aratani, Hiroko Yamada

Porphyrin(2.1.2.1) Nanobelts

S09-P-010

Yoshio Yano (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Sou Hatanaka, Toshikazu Ono, Yoshio Hisaeda

Acid-Responsive Fluorescence Color Change of Pyrrolopyrrole Derivatives in the Solid State

S09-P-011

Tomoki Yoneda (Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan), Daiki Mori, Tyuji Hoshino, Saburo Neya

meso- and β -Substituted Hybrid Pentaphyrins

S09-P-012

Samson Khene (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Zainab O. Makinde, Marcel S. Louzada, Jonathan Britton, Tebello Nyokong

Nonlinear Optical Properties of Alkyl Thiol Substituted Binuclear Phthalocyanines for Use as Optical Limiters – Part II

S10 Metalloporphyrinoids

S10-P-001

Adinarayana Bellamkonda (Department of Chemistry, Kyoto University, Kyoto, Japan), A. Srinivasan
Syntheses of Bipyricorroles and their *meso-meso* Coupled Dimers

S10-P-002

Mathieu Berthelot (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Guillaume Hoffmann, Asmae Bousfiha, Julie Echaubard, Julien Roger, Hélène Cattey, Anthony Romieu, Dominique Lucas, Paul Fleurat-Lessard, Charles H. Devillers
Oxidative C-N Fusion of Ni(II) *meso*-(Pyridin-2-ylthio)Porphyrins

S10-P-003

Mateusz Garbicz (Faculty of Chemistry, University of Wrocław, Wrocław, Poland), Lechosław Latos-Grażyński
ansa-Ferrocene-Incorporated Contracted Heterocalixpyrroles – Syntheses and Characterization

S10-P-004

Maiko Kawamoto (Interdisciplinary Faculty of Science and Engineering, Shimane University, Matsue-shi, Japan), Yuki Ide, Maiko Kawamoto, Masaaki Suzuki, Shigeki Mori, Saburo Neya, Mikio Nakamura, Takahisa Ikeue
Characterization of 6-Coordinated Oxypyriporphyrin Iron(III) Complex with the Mixed Axial Ligand

S10-P-005

Kamil Kupietz (Department of Chemistry, University of Wrocław, Wrocław, Poland), Lechosław Latos-Grażyński
Transformations of Copper(III) Phenanthriporphyrin and Copper(III) 5,6-Dioxophenanthriporphyrin

S10-P-006

Ivan Meshkov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Yulia Gorbunova, Véronique Bulach, Aslan Tsivadze, Mir Wais Hosseini
Molecular Switches Based on Unusual Porphyrins – Part II

S11 Exotic Coordination Chemistry of Porphyrinoid Systems

S11-P-001

Oskar Koifman (Research Institute of Macroheterocycles / Russia International Research Laboratory on Nanomaterials, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Irina Trifonova, Vladimir Burmistrov, Mikhail Islyaikin
Influence of Specific Solvation of the Sat-Intermediate of Metal-Porphirin Complex Formation

S11-P-002

Natasza Sprutta (Department of Chemistry, University of Wrocław, Wrocław, Poland), Michal J. Bialek, Agnieszka Hassa, Lechosław Latos-Grażyński
Ruthenium Clusters of Azuliporphyrinogens

S11-P-003

Marina Volostnykh (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Anna Sinelshchikova, Gayane Kirakosyan, Alexander Martynov, Maxim Mikhaylov, Mikhail Grigoriev, Yulia Gorbunova, Maxim Sokolov

New Supramolecular Hybrid System Based on Zn(II) Porphyrin and Pyridine End-Decorated Mo(II) Halide Cluster

S12 Corroles - Properties

S12-P-001

Yousef Ajeeb (Art, Sciences and Technology University in Lebanon, Beirut, Lebanon), Tatiana Karlovich, Wouter Maes, Wim Dehaen, Mikalai Kruk

Temperature Dependence of NH-Tautomerization Rate in Free Base Corroles

S12-P-002

Sudhakar Kolanu (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Atif Mahammed, Zeev Gross

Electrocatalysis by Selectively Functionalized Metallocorroles

S12-P-003

Mikalai Kruk (Physics Department, Belarusian State Technological University, Minsk, Belarus), Dmitry Klenitsky, Wouter Maes

On the Relationship between the Substitution Architecture and the Macrocycle Nonplanarity in the Free Base Corroles

S12-P-004

Yogesh Kumar Maurya (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Masatoshi Ishida, Hiroyuki Furuta

Ground Organocopper(III) N-Confused / N-Linked Corroles: Synthesis, Characterization and Redox Reactivity

S12-P-005

Irena Saltsman (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Zeev Gross

Bio-Conjugated Corroles as Catalysts for Asymmetric Transformations

S12-P-006

Beatrice Berionni Berna (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Benedikt Platzer, Maximilian Wolf, Pierluca Galloni, Sara Nardis, Dirk M. Guldi, Tomás Torres, Roberto Paolesse

Design and Synthesis of New Phthalocyanine-Corrole Hybrid Conjugates – Part II

S13 Phthalocyanines and Related Systems

S13-P-001

Anna Filippova (Department of Inorganic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Anastasiya Kerner, Alena Chernova, Serafima Znoyko, Tatyana Tikhomirova, Mikhail Razumov, Artur Vashurin, Oleg Golubchikov

General Regularities of Small Organic Ligands Coordination by Cobalt Phthalocyanines

S13-P-002

Basma Ghazal (Department of Chemistry, Kuwait University, Khaldia, Kuwait), Tomás Torres, Saad Makhseed

Phthalocyanines as Hole Transporting Materials for Perovskite Solar Cells

S13-P-003

Ayşe Gul Gurek (Department of Chemistry, Gebze Technical University, Kocaeli, Turkey)

Synthesis, Photocharacterization and pH-Dependent Fluorescence of Silicon Phthalocyanines Bearing Antienflammatuar Groups

S13-P-004

Mikhail K. Islyaikin (Research Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Yuriy A. Zhabanov, Alexander E. Pogonin, Arseniy A. Otlyotov, Alexandra S. Kuznetsova, Georgiy V. Girichev

Molecular Structures of Hemiporphyrizine and Dicarbahemiporphyrizine as Determined by Gas-Phase Electron Diffraction and Quantum Chemical Calculations

S13-P-005

Mikhail K. Islyaikin (Research Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Igor V. Novikov, Victor V. Aleksandriiskii, Alexandra S. Kuznetsova, Vladimir A. Burmistrov, Oscar I. Koifman

Microwave-Assisted Synthesis of Bornane[2,3-b]pyrazino-Fused Dibenzohemiporphyrizines and their Application as Chiral Inducers of Spiral Liquid Crystalline Phase

S13-P-006

Olga Khelevina (Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Alyona Malyasova, Olga Potehina, Vladimir Maizlish, Oskar Koifman

Synthesis of Mg(II) Complexes Octaphenylphthalocyanines and their Physico-Chemical Properties

S13-P-007

Christoph Schierl (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Beatriz Ballesteros, Virtudes Pardo, Giovanni Bottari, Tomás Torres, Dirk M. Guldi

Electronic Interactions in a Novel Cyclopenta[hi]aceanthrylene Zinc Phthalocyanine Electron Donor-Acceptor Conjugate

S14 Optical, Electrical and Optoelectronic Phenomena in Porphyrins and Phthalocyanines

S14-P-001

Jesin Beneto Arockiam (Department of Organic Material Science and Engineering, Pusan National University, Busan, Korea), Jong Seung Park

Synthesis and Electrochromic Properties of Phthalocyanine Mediated Metallopolymers Constructed from Terpyridine-Metal Coordination

S14-P-002

Xiaofei Chen (Department of Chemistry, Chinese University of Hong Kong, Hong Kong, China), Dennis K.P. Ng

Water-Soluble β -Cyclodextrin-Conjugated Phthalocyanines as Building Blocks for Photosynthetic Models and Photosensitizers for Photooxygenation Reactions

S14-P-003

Sung Cho (Department of Chemistry, Chonnam National University, Gwangju, Korea), Sangdeok Shim

Efficient Electron Transfer Processes and Enhanced Electrocatalytic Activity of Cobalt(II) Porphyrin Anchored on Graphene Oxide

S14-P-004

Njemuwa Nwaji (Department of Chemistry, Rhodes University, Grahamstown, South Africa)

Enhanced Nonlinear Optical Responses in Benzothiazole Substituted Ball-Type Phthalocyanines in the Presence of Metallic Nanoparticles – Part II

S14-P-005

Christine Odile Paul-Roth (Institut National des Sciences Appliquées / Institut des Sciences Chimiques de Rennes, Rennes, France)

Toward Organometallic Dendrimer with Zinc(II) Porphyrin Core for Optics

S14-P-006

Benedikt Platzer (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Beatrice Berionni Berna, Sara Nardis, Tomás Torres, Roberto Paolesse, Dirk M. Guldi

Investigating Photoinduced Electron Transfer-Mechanisms in Novel Free-Base Corrole-Phthalocyanine Donor-Acceptor Conjugates

S14-P-007

Kim Winterfeld (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Ettore Fazio, Gema de la Torre, Dirk M. Guldi, Tomás Torres

An Unidirectional Charge Transfer Cascade in a Panchromatic Multiporphyrinoid Ensemble – Part II

S14-P-008

Anna Zieleniewska (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Shannon R. Harper, Dennis P. Arnold, Dirk M. Guldi

Meso-meso Two-Atom-Bridged Diporphyrins: A Short Story of Electronic Communication Discrepancy – Part II

S14-P-009

Jenya Vestfrid (Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Canada), Timothy Bender

Asymmetric Silicon Phthalocyanines – Part II

S14-P-010

Kutlano Eward Sekhosana (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Tebello Nyokong

The Optical Limiting Applicability of Blue Lanthanide Double-Decker Phthalocyanines at 532 nm – Part I

S17 High-Valent Metal-Oxo and Their Precursor Macrocyclic Complexes: Structure and Reactivity

S17-P-001

Alexander G. Martynov (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry / Laboratory of Novel Physical-Chemical Problems, Russian Academy of Sciences, Moscow, Russia), Yulia G. Gorbunova, Aslan Yu. Tsivadze, Alexander B. Sorokin

Crown-Substituted μ -Nitrido-Bisphthalocyaninatoiron(IV) Complexes: Synthesis and Cation-Induced Assembling

S17-P-002

Manjitha Mukherjee (Department of Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata, India), Abhishek Dey

An Electrochemical Analogue of Cytochrome P450: Catalytic C-H Bond Hydroxylation and Epoxidation by Molecular Oxygen

S25 Catalytic Chemical Transformations by Metalloporphyrins

S25-P-001

Tatiana Ageeva (Research Institute of Macroheterocycles, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Galina Bepalova, Alexandra Morokhina, Evgeny Shabunin, Oscar Koifman

Metalloporphyrins as Catalysts for Curing of Electrodeposited Coatings

S25-P-002

Lucas Dias (Department of Chemistry, University of Coimbra, Coimbra, Portugal), Rui Carrilho, Mário Calvete, Mariette Pereira

Development of Hybrid Metalloporphyrin Based Magnetic Catalysts: Sustainable Sequential Epoxidation / CO₂ Cycloaddition Reactions

S25-P-003

Yassuko Iamamoto (Department of Chemistry, University of São Paulo, Ribeirão Preto, Brazil), Fabrício Zanardi, Lucas Zanatta, Patricia Momo, Kleber De Oliveira

Evaluation of Catalytic Activity of Thiophene-Functionalized Metalloporphyrins as Cythochrome P450 Model

S25-P-004

CANCELLED

Parinaz Nafarieh (Department of Chemistry, K.N. Toosi University of Technology, Tehran, Iran), Saeed Rayati
Fe(III) and Mn(III) Porphyrins Supported onto Multi-Wall Carbon Nanotubes as Efficient Catalyst for Aerobic Oxidation of Alkenes and Alkanes: A Comparative Study

MOVED TO THURSDAY

POSTERS

S25-P-005

Shirley Nakagaki (Chemistry Department, Federal University of Paraná, Curitiba, Brazil), Geani Maria Ucoski, Victor Hugo Araujo Pinto, Gilson DeFreitas-Silva, Júlio Santos Rebouças, Renaldo Marcos da Silva Jr., Irineu Mazzaro, Fábio Souza Nunes

Preparation of Solid Catalyst Selective and Efficient for Oxidation of Linear Alkanes Based on Manganese Porphyrins Immobilized on Magnetic SBA-15 Mesoporous Silica

S25-P-006

Tsubasa Nishimura (Department of Molecular and Macromolecular Chemistry / Graduate School of Engineering, Nagoya University, Nagoya, Japan), Yoshihiro Miyake, Hiroshi Shinokubo

Direct Oxidation of Alkanes Catalyzed by Iron 5,15-Diazaporphyrins

S25-P-007

Michał Ociepa (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Joanna Turkowska, Maciej Giedyk, Dorota Gryko

Vitamin B₁₂ – Versatile Catalyst for Sustainable Synthesis

S25-P-008

Jyoti Rai (Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, India), Biju Basumatary, Jeyaraman Sankar

Catalytic Oxidation of Alkene by Homotrimeric Mn(III)(Corrole-Porphyrin-Corrole) Triad

S25-P-009

Marie Roucan (School of Chemistry, Trinity College Dublin, Dublin, Ireland), Marc Kielmann, Stephen J. Connon, Mathias O. Senge

Bifunctional Organocatalysis Using Free Base and N-Substituted Porphyrins

S25-P-010

Muniappan Sankar (Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, India), Tawseef Ahmad Dar

Robust Electron Deficient Vanadyl Porphyrin Catalysts for Selective Epoxidation and Oxidative Bromination Reactions

S25-P-011

Everton Henrique Santos (Chemistry Department, Federal University of Paraná, Curitiba, Brazil), Shirley Nakagaki

Synthesis of Metalloporphyrin-Based Solids and Investigation of its Catalytic Activity into Assisted Tandem Catalysis Reaction

S25-P-012

Ankita Sarkar (Inorganic Chemistry, Indian Association for the Cultivation of Science, Kolkata, India), Snehadri Bhakta, Abhishek Dey

Distal Superstructure Modified Iron-Porphyrin for N-O / S-O Bond Activation

S25-P-013

João Felipe Stival (Chemistry Department, Federal University of Paraná, Curitiba, Brazil), Karen Mary Mantovani, Shirley Nakagaki

Preparation of a Solid Catalyst by the Immobilization of a Cationic Metalloporphyrin into a Titanate Matrix and Investigation of its Catalytic Activity

S25-P-014

Anne Swartjes (Institute of Molecules and Materials, Radboud University Nijmegen, Nijmegen, Netherlands), Shaji Varghese, Bram Spierenburg, Johannes Elemans, Roeland Nolte

One-Step Synthesis and Optical Resolution of Chiral Porphyrin Cage Compounds

S25-P-015

Pietro Tagliatesta (Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Rome, Italy), Marilena Carbone, Alessandro Leoni, Francesca Limosani, Fabio Possanza

Rhodium and Ruthenium Porphyrins Coupled to Gold Nanoparticles for Cyclopropanation Reactions

S25-P-016

Pietro Tagliatesta (Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Rome, Italy), Marilena Carbone, Alessandro Leoni, Francesca Limosani, Fabio Possanza

Ruthenium Porphyrin Coupled to Gold Nanoparticles for Oligomerization Reactions

S25-P-017

Min Wang (Laboratoire Electrochimie Moléculaire / CNRS, Université Paris Diderot, Paris, France), Ümit Isci, Marc Robert

Hybrid Systems Comprising Cobalt Porphyrins and Phthalocyanines for Highly Efficient Electrocatalytic Reduction of CO₂ in Water – Part II

S28 Biomimetic Solar Conversion

S28-P-001

Georgios Charalambidis (Department of Chemistry, University of Crete, Heraklion, Greece), Vasilis Nikolaou, Yann Pellegrin, Fabian Plass, Asterios Charisiadis, Axel Kahnt, Fabrice Odobel, Athanassios G. Coutsolelos

Development of Dye-Sensitized NiO Photocathodes Based on Porphyrin-Fullerene Dyads for Photovoltaic Applications

S28-P-002

Eleni Glymenaki (Department of Chemistry, University of Crete, Heraklion, Greece), Yann Pellegrin, Sofia Mariola, Georgios Charalambidis, Asterios Charisiadis, Vasilis Nikolaou, Fabrice Odobel, Athanassios Coutsolelos

Synthesis and Photophysical Studies of Porphyrin-Ruthenium(II)polypyridine Complexes for Potential Application at Dye Sensitized Solar Cells

S28-P-003

Hosoowi Lee (Department of Chemistry, Yonsei University, Seoul, Korea), Young-Hwan Jeong, Joo-Ho Kim, Inhye Kim, Eunji Lee, Woo-Dong Jang

Supramolecular Polymer Constructed by Coordination Interaction between Artificial Light-Harvesting Porphyrin Dendrimer and Multipyridyl Porphyrin

S28-P-004

Luise Mintrop (Institute for Inorganic and Analytical Chemistry, Albert-Ludwigs-University Freiburg, Freiburg, Germany), R. Weißer, Ch. Weinmann, Philipp Kurz

Sn(IV)-Porphyrinoids for Proton-Reduction as Model Reactions for the Role of Chlorophylls in Photosynthesis

S30 Porphyrin Derivatives for Medical/Biological Applications

S30-P-001

Enrico Caruso (Department of Biotechnology and Life Science, University of Insubria, Varese, Italy), Marco Ballestri, Andrea Guerrini, Claudia Ferroni, Stefano Banfi, Marzia Gariboldi, Elena Monti, Giovanna Sotgiu, Greta Varchi

Synthesis and *in vitro* Photodynamic Activity Evaluation of Core-Shell Poly-Methyl Methacrylate Nanoparticles Covalently Functionalized with a Diarylic Non-Symmetric Porphyrin – Part II

S30-P-002

Christopher Lemon (Miller Institute for Basic Research in Science / Department of Molecular and Cell Biology, University of California, Berkeley, USA), Michael Marletta

The Development of Red Fluorescent Proteins Using H-NOX as a Protein Scaffold

S30-P-003

Muthumuni Managa (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Ojodomo J. Achadu, Tebello Nyokong

Photophysical Studies of Graphene Quantum Dots – Pyrene-Porphyrins Conjugates Encapsulated in Pluronic F127 Micelles – Part II

S30-P-004

James Oyim (University of Nairobi, Nairobi, Kenya), Edith Amuhaya, John Mack, Tebello Nyokong, Pitchou Ngoy

Synthesis, Photophysical Studies and TD-DFT Calculations of 5,10,15,20-Tetrakis [4-(benzyloxy)phenyl] Porphyrinato Indium(III) chloride

S30-P-005

Laura Senft (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Ivana Ivanovic-Burmazovic

Novel Diaza-Crownether Functionalized Manganese Porphyrins as “Smart” Contrast Agents in MRI

S37 Chemistry, Properties, and Applications of Corrinoids and Related Compounds

S37-P-001

Christopher Brenig (Department of Chemistry, University of Zurich, Zurich, Switzerland), Felix Zelder

Towards Novel Antivitamins B₁₂ for Medicinal Applications – Part II

S37-P-002

Agnieszka Jackowska (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Maciej Giedyk, Marcin Równicki, Joanna Trylska, Dorota Gryko

Vitamin B₁₂ as a Transporter of Modified RNAs into Gram-Negative Bacteria – Part II

S37-P-003

Aleksandra Wierzba (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Marcin Równicki, Tomasz Pieńko, Joanna Trylska, Dorota Gryko

Synthetic Approaches towards Vitamin B₁₂ Conjugates – Part II

Thursday, July 5, 2018 - Poster Session II

Basement | Ground floor | First floor



18:00 to 20:00

S07 Porphyrazines

S07-P-001

Jiri Demuth (Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic), Radim Kucera, Petr Zimcik, Miroslav Miletin, Veronika Novakova

New Azaphthalocyanine Dark Quencher Usable in Polymerase Chain Reaction

S07-P-002

Svetlana Ivanova (Institute of Macrocyclics, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Irina Lebedeva, Svetlana Ivanova, Pavel A. Stuzhin

Synthesis, Spectral-Luminescence and Electrochemical Properties of Perfluorinated Zn(II) Octaphenylporphyrazine and its Derivatives Obtained by Click-Reactions

S07-P-003

Olga Khelevina (Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Alyona Malyasova, Oskar Koifman

Synthesis of Bromotetraazaporphyrins

S07-P-004

Anton Kosov (Department of Chemistry, M.V. Lomonosov Moscow State University, Moscow, Russia), Tatiana Dubinina, Konstantin Drozdov, Larisa Tomilova

Novel Synthetic Approach to Pyrazinoporphyrazine Complexes of Rare-Earth Elements

S07-P-005

Diana-Paola Medina (Department of Organic Chemistry, Autonoma University of Madrid, Madrid, Spain), M. Salomé Rodríguez-Morgade, Tomás Torres

A Series of Push-Pull Porphyrazines for Dye-Sensitized Solar Cells

S07-P-006

Roman Münnich (Institute for Chemistry / Center for Interdisciplinary Nanostructure Science and Technology, University of Kassel, Kassel, Germany), Rüdiger Faust

Structural Control of Relative Binding Site Geometries in Photocatalytic Porphyrazine / TiO₂-Hybrids

S07-P-007

Jong Min Park (Department of Organic and Nano Engineering, Hanyang University, Seoul, Korea), Chang Young Jung, Hyun Dong Choi, Seong Je Park, Yue Wang, Pin Yin Ou

Statistical Copolymer Structures with Tetrapyrazinoporphyrazine Derivatives and Glucose Groups as Pendent Chain for Photodynamic Therapy

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S07-P-008

Pavel Tarakanov (Institute of Physiologically Active Compounds, Russian Academy of Sciences, Chernogolovka, Russia), Anton O. Simakov, Ekaterina N. Tarakanova, Victor E. Pushkarev

Influence of Substituents in 1,4-Diazepine Heterocycle on the Selectivity of Synthesis of A₃B-Type Diazepinoporphyrazines

S08 BODIPY Dyes

S08-P-001

Chellaiah Arunkumar (Department of Chemistry, National Institute of Technology Calicut, Kerala, India), Dijo Prasannan

Alkyne-BODIPYs: Viscosity-Sensitive Fluorescent Probes

S08-P-002

Stijn Boodts (Department of Chemistry, Catholic University of Leuven, Heverlee, Belgium), Johan Hofkens, Wim Dehaen

α -Substituted BOPHY Dyes *via* a Key 3,8-DichloroBOPHY Intermediate

S08-P-003

Enrico Caruso (Department of Biotechnology and Life Sciences, University of Insubria, Varese, Italy), Marco Ballestri, Andrea Guerrini, Claudia Ferroni, Stefano Banfi, Marzia Gariboldi, Elena Monti, Giovanna Sotgiu, Greta Varchi

New BODIPY / Amphiphilic Cyclodextrin Assemblies as Nanophototherapeutics with PDT Efficacy

S08-P-004

Claude Gros (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Jian Yang, Léo Bucher, Nicolas Desbois, Yoann Rousselin, Frédéric Bolze, Hai-Jun Xu

BODIPYs from 1 to 4: The More, the Better?

S08-P-005

Miriana Horacek-Glading (School of Chemical Sciences, University of Auckland, Auckland, New Zealand), Bridget L. Stocker, Mattie S.M. Timmer, David C. Ware, Penelope J. Brothers

Lighting-Up Sugars: Using O-BODIPY Probes as Tools to Study Saccharides

S08-P-006

Deepika Kanyan (School of Chemical Sciences, University of Auckland, Auckland, New Zealand), Penelope J. Brothers, David C. Ware

Light-Driven Hydrogen Production from Water

S08-P-007

Gugu Kubheka (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Odojomo Achadu, John Mack, Tebello Nyokong

Optical Limiting Properties of 3,5-Diphenyldibenzo-AzaBODIPY at 532 nm

S08-P-008

Woohyun Lee (Department of Chemistry, Korea Advanced Institute of Science and Technology, Daejeon, Korea), Tesla Yudhistira, Sandip Vishnu Mulay, David G. Churchill

Organoselenide BODIPY Species in Chemosensing

S08-P-009

Vijayalakshmi Pandey (Department of Chemistry, Indian Institute of Technology Gandhinagar, Gandhinagar, India), Praseetha E. Kesavan, Iti Gupta

BODIPY Dyes: Synthesis and Biological Studies – Part II

S08-P-010

Ritambhara Sharma (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), Mangalampalli Ravikanth, Martin Bröring

3-Pyrrolyl BODIPY Based Fluorescent Systems – Part II

S08-P-011

Martijn Wildervanck (School of Chemical Sciences, University of Auckland, Auckland, New Zealand), Bridget L. Stocker, Mattie S.M. Timmer, David C. Ware, Penelope J. Brothers

Synthesis, Characterization and Optical Properties of Sugar-O-BODIPY Complexes Elucidated with DFT

S08-P-012

Yurii Zatsikha (Department of Chemistry, University of Manitoba, Winnipeg, Canada), Tanner Blesener, Natalia Didukh, Yuriy Kovtun, Andrew Healy, David Blank, Victor Nemykin

The Study of Electron Transfer Properties of NIR-Absorbing Ferrocene-BODIPY-Fullerene Triads

S15 Chiral Aspects of Porphyrin Supramolecular Chemistry

S15-P-001

Rosalba Randazzo (Department of Chemical Sciences, University of Catania, Catania, Italy), Alessandro D'Urso, Maria Elena Fragalà, Roberto Purrello

Chiral Porphyrin Aggregates Obtained by Chemical Template and Physical Force

S18 Sandwich Tetrapyrrole Rare Earth Materials

S18-P-001

Guang Lu (Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Jianzhuang Jiang

Solution-Processed Single Crystal Microsheets of a Novel Dimeric Phthalocyanine-Involved Triple-Decker for High-Performance Ambipolar Organic Field Effect Transistors

S18-P-002

Evgeniya Safonova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Alexander Martynov, Yulia Gorbunova, Aslan Tsivadze

Novel Mono- and Double-Decker Crown-Substituted Naphthalocyanines with Absorption in NIR-Range – Part II

S18-P-003

Andrey Starikov (Institute of Physiologically Active Compounds, Russian Academy of Sciences, Chernogolovka, Russia), T.V. Dubinina, V.P. Kazachenko, P.A. Tarakanov, V.E. Pushkarev

A Simple Synthetic Route to Lanthanide(III) Triple-Decker Phthalocyaninates

S19 Porphyrin Assemblies on Bioinspired Templates

S19-P-001

Mariana Hamer (Instituto de Nanosistemas, University of San Martin, San Martin, Argentina), Peter Eaton, Craig Medforth

Interaction of Porphyrin Nanostructures with Hard Templates – Part II

S19-P-002

Emmanouil Nikoloudakis (Department of Chemistry, University of Crete, Heraklion, Greece), Kostas Karikis, Chrysoula Kokotidou, Georgios Charalambidis, Antonios Douvas, Anna Mitraki, Athanassios Coutsolelos

Self-Assembling Study of PNA-Porphyrin and PNA-BODIPY Hybrids in Mixed Solvent Systems – Part II

S20 Porphyrin Assemblies in Confined Space

S20-P-001

Yulia Enakieva (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Anna Sinelshchikova, Mikhail Grigoriev, Yulia Gorbunova, Aslan Tsivadze

Synthesis and Structural Features of New Porphyrinyl-Phosphonate Metal-Organic Framework

S20-P-002

Chisako Kanzaki (Department of Biomolecular Chemistry / Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Kyoto, Japan), Munenori Numata

Enhanced Supramolecular Self-Assembly of Porphyrins in Non-Equilibrium Microflow Space

S20-P-003

Anna Sinelshchikova (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Yulia Enakieva, Mikhail Grigoriev, Yulia Gorbunova, Aslan Tsivadze

The First Hydrogen-Bonded Organic Framework Based on Nickel(II) Porphyrinyl Tetraphenylphosphonate

S21 Nanomaterials for Energy Conversion, Storage and Catalysis

S21-P-001

Anna Kelm (Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland), Jakub Ostapko, Jacek Waluk

Photophysical Changes in Porphyrins Attached to Gold-Silica Core-Shell Nanoparticles

S21-P-002

Ilias Papadopoulos (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Dominik Thiel, Philipp Haines, Kamil Skonieczny, Daniel T. Gryko, Dirk M. Guldi

Investigation on the Photophysical Properties of Diketopyrrolopyrroles – Part II

S21-P-003

Yana Platonova (Department of Chemistry, M.V. Lomonosov Moscow State University, Moscow, Russia), Alexander Volov, Larisa Tomilova

Use of tert-Butylsubstituted Palladium(II) Phthalocyanine as a New Efficient Catalyst in Phosphine-Free Sonogashira Reaction

S21-P-004

Johannes Schneider (Chemistry and Physics of Materials, University Salzburg, Salzburg, Austria), Raghd Restom, Thomas Berger, Oliver Diwald

Metalation of 2H-Tetraphenylporphyrin on Metal Oxide Nanoparticles: The Influence of Hydroxylation and Hydration

S21-P-005

Hoseung Son (Organic Material Science and Engineering, Pusan National University, Busan, Korea), Jong Seung Park

Effective Functionalization of Carbon Nano-Materials Using Perfluorinated and Alkylated Metallophthalocyanines

S21-P-006

Yufeng Yang (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Masatoshi Ishida, Hiroyuki Furuta

Zirconium-Based Metal-Organic Frameworks Composing of Porphyrin and its N-Confused Analogue: Synthesis and Photophysical Properties

S22 Hard-Matter Nanoscale Objects for Electro-Optics and Energy Conversion

S22-P-001

Fabian Plass (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Vasilis Nikolaou, Axel Kahnt, Fabrice Odobel, Athanassios G. Coutsolelos

Investigating the Photophysical Properties of Triazole Linked ZnP – C₆₀ Conjugates towards Interfacial Electron Transfer Systems – Part II

S22-P-002

Bingzhe Wang (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Shushu Zheng, Youzhi Xu, Ramandeep Kaur, Muqing Chen, Max von Delius, Xing Lu, Dirk M. Guldi

Supramolecular Porphyrin-Fullerene Architectures – Part II

S22-P-003

Joffrey Pijeat (Direction de la Recherche Fondamentale, Saclay, Gif sur Yvette, France), Nataliya Kalashnyk, Rémi Plamont, Teodor S. Balaban, Sylvain Clair, Pierre Thuery, Stéphane Campidelli

Bottom-Up Synthesis of Porphyrin Based Graphene Nanoribbons and Nanomeshes – Part II

S23 Porphyrinoid Based Chemical Sensors

S23-P-001

Ayşe Gul Gurek (Department of Chemistry, Gebze Technical University, Kocaeli, Turkey), H. Karakaş, D. Atilla, H. Al-Sagur, S. Komathi, T. Basova, N. Farmilo, A.K. Hassan

Novel Lutetium Bis-Phthalocyanine Incorporated Silica-Polyaniline Conducting Nanobeads for the Application of Glucose Biosensor

S23-P-002

Mariana Hamer (Instituto de Nanosistemas, University of San Martin, San Martin, Argentina), Rocio Thea, Nicolas López Abdala, Diego Onna, Galo J.A.A. Soler Illia

Optical Sensing with Metalloporphyrins: Towards Nanostructured Sensing Devices

S23-P-003

Jiyoung Hwang (Department of Materials Chemistry and Engineering, Konkuk University, Seoul, Korea), Myung-Seok Choi

A Novel Porphyrin-Based Fluorescent Sensor for Cyanide Ions Detection

S23-P-004

Geonwoo Kim (Department of Materials Chemistry and Engineering, Konkuk University, Seoul, Korea), Turpu Sheshashena Reddy

Photophysical Properties of Water-Soluble Porphyrin-Stilbene Conjugate

S23-P-005

Minki Kim (Department of Materials Chemistry and Engineering, Konkuk University, Seoul, Korea), Myung-Seok Choi

Preparation, Characterization and Application of UV-Curing Urethane Acrylate Films Containing Rhodium(III) Porphyrin for Selective Nitrite Detection

S23-P-006

Jeong Heon Lee (Department of Chemistry, Yonsei University, Seodaemun-gu, Korea), Woo Dong Jang

Porphyrin-Based Receptor: Negative Selectivity Control of Ion Pairs by Solvent System

S23-P-007

Hyungkyu Moon (Department of Materials Chemistry and Engineering, Konkuk University, Seoul, Korea), Myung-Seok Choi

Preparation of Waterborne Polyurethane Film Doped with Porphyrin Fluorescent Probe for Mercury Ions Detection

S23-P-008

Roberto Paolesse (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Andrea Savoldelli, Larisa Lvova, Roberto Paolesse

Dipyrromethane-Substituted Corrole: Electropolymerization and Application for Chemical Sensors

S23-P-009

Turpu Sheshashena Reddy (Department of Materials Chemistry and Engineering, Konkuk University, Seoul, Korea), Myung-Seok Choi

Synthesis, Photophysical, Electrochemical and Metal Ion Sensing Properties of Naphthalimide-Porphyrin Conjugate

S23-P-010

Sohyun Shin (Department of Materials Chemistry and Engineering, Konkuk University, Seoul, Korea), Myung-Seok Choi

A Highly Selective Cadmium Detection of Porphyrin-Based Fluorescent Probe

S24 Electron Transfer and Applications of Tetrapyrrole-Nanocarbon Systems

S24-P-001

Asterios Charisiadis (Department of Chemistry, University of Crete, Heraklion, Greece), Christina Stangel, Fabian Plass, Emmanouil Giannoudis, Georgios Chararalambidis, Kostas Karikis, Georgios Rotas, Galatea E. Zervaki, Nektarios N. Lathiotakis, Nikos Tagmatarchis, Axel Kahnt, Athanassios G. Coutsolelos

Artificial Photosynthetic Systems Based on Self-Assembled C₆₀-Tetra-Pyridyl-(Zn)Porphyrin Hybrids

S24-P-002

Philipp Haines (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Max Martin, Ramandeep Kaur, Norbert Jux, Dirk M. Guldi.

Photophysical Impact of C₆₀ on Novel Zinc Porphyrin – Hexa-Peri-Hexabenzocoronenes Hybrid Systems

S24-P-003

Umit Isci (Department of Chemistry, Gebze Technical University, Kocaeli, Turkey), Tuğba Küçük, Zeynel Şahin, Fabienne Dumoulin

Resorcinarene Cavitands Bearing One, Two or Tri Porphyrins Linked *via* an Ethylene Glycol Spacer; Investigation of their Interaction with Pyridine Fullerene

S24-P-004

Umit Isci (Department of Chemistry, Gebze Technical University, Kocaeli, Turkey), Zeynel Şahin, Tuğba Küçük, Songül Yaşar, Derya Topkaya, Fabienne Dumoulin

Monoporphyrin-Resorcinarene Cavitand Hybrids with Different Linkers

S24-P-005

Atanu Jana (Institute for Supramolecular Chemistry and Catalysis, Shanghai University, Shanghai, China), Jonathan L. Sessler

exTTF-Porphyrin-Based Supramolecular Cyclic Oligomers

S24-P-006

Jan Joseph (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Eduardo Anaya-Plaza, Stefan Bauroth, Michael Sekita, Andrés de la Escosura, Dirk M. Guldi, Tomás Torres

Synergy of Electrostatic and π - π Interactions in the Realization of Nanoscale Artificial Photosynthetic Model Systems

S24-P-007

Marcel Krug (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Anna Zieleniewska, Christina Stangel, Tomás Torres, Nikos Tagmatarchis, Dirk M. Guldi, Athanassios G. Coutsolelos

Photoinduced Electron Transfer in Supramolecular Zinc Phthalocyanine-Fullerene Hybrids

S24-P-008

Arjun Puthiyedath (Department Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Peter W. Münich, Leire de Juan, Emilio M. Pérez, Dirk M. Guldi
Tuning Porphyrin Interactions by Mechanically Interlocking Nanotubes

S24-P-009

Tobias Scharl (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Alejandro Candranel, Philipp Haines, Volker Strauss, Dirk M. Guldi, Andrés Ferrer-Ruiz, Laura Rodríguez-Pérez, M. Ángeles Herranz, Nazario Martin
Fine-Tuning the Assemblies of Carbon Nanodots and Porphyrins

S24-P-010

Woormileela Sinha (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), Zeev Gross
Water Oxidation Catalysis by Corrole-Complexes with Abundant Metals – Part II

S24-P-011

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Christoph Vogl (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Alejandro Candranel, Volker Strauss, Maurizio Prato, Dirk M. Guldi
Pyridylation of Carbon Nanodots Boosts Electron Donor-Acceptor Interactions

S24-P-012

Michel Volland (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Tomás Torres, Dirk M. Guldi
A Strong NIR Absorbing Tetrapyrrole Based Push-Pull Chromophore and its Interaction with Liquid Phase Exfoliated Graphene

S24-P-013

Maximilian Wolf (Department Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Astrid Herrmann, Dominik Lungerich, Maximilian Popp, Carmen Villegas, Olga Trukhina, Juan Luis Delgado, Tomás Torres, Nazario Martín, Timothy Clark, Andreas Hirsch, Dirk M. Guldi
Tetrapyrrole-Fullerene Electron Donor-Acceptor Architectures for Advanced Photon and Charge Management

S24-P-014

Ramandeep Kaur (Department of Chemistry and Pharmacy, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Stefan Bauroth, Fabio Possanza, Francesca Limosani, Pietro Tagliatesta, Dirk M. Guldi
Understanding and Controlling Short and Long-Range Electron Transfer Processes – Part II

S26 Porphyrinoids for Solar Cells

S26-P-001

Nivedita Chaudhri (Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, India), Kamal Prakash, Ravi Kumar, Muniappan Sankar
Facile Synthesis of Donor- π -Acceptor Trans-A₂BC and A₂B₂ Zn(II) Porphyrin Dyes for DSSC Application

S26-P-002

Claude P. Gros (Institut de Chimie Moléculaire de l'Université de Bourgogne / CNRS, Université de Bourgogne Franche-Comté, Dijon, France), Léo Bucher, Nicolas Desbois, Pierre D. Harvey, Ganesh D. Sharma
Porphyrins, DPP and BODIPY as Building Blocks for Efficient Donor Materials in Bulk Heterojunction Solar Cells

S26-P-003

Maria Kandyli (Department of Chemistry, University of Crete, Heraklion, Greece), Stylianos Panagiotakis, Emmanouil Giannoudis, Asterios Charisiadis, Raphaella Paravatou, Maria-Eleni Lazaridi, Kalliopi Ladomenou, Panagiotis Angaridis. H  l  ne Bertrand. Ganesh Sharma, Athanassios Coutsolelos

Increased Efficiency of DSSCs by Incorporation of a π -Spacer in D-A Zinc Porphyrins Bearing Cyanoacrylic Acid as Anchoring Group

S26-P-004

Ruchika Mishra (Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, India), Sankar Jeyaraman, Ganesh D. Sharma

Porphyrin-Perylenebisimide Conjugates as Donors for Bulk Heterojunction Solar Cells

S26-P-005

Michael Papadakis (Department of Chemistry, University of Crete, Heraklion, Greece), Maria Vasilopoulou, Nikolaos Balis, Apostolis Vervkios, Polycarpos Falaras, Athanassios G. Coutsolelos

Enhanced Performance of Perovskite Solar Cells Using a Porphyrin Interfacial Modifier of TiO₂ Electron Transport Layer

S26-P-006

Chen-Yu Yeh (Department of Chemistry, National Chung Hsing University, Taichung, Taiwan), Hsien-Hsin Chou, Wei-Ting Cheng, Yu-Hsien Chiang, Peter Chen

Porphyrins as Hole-Transporting Materials for Perovskite Solar Cells

S27 Photo- and Electro-Catalytic Processes

S27-P-001

Georgios Landrou (Department of Chemistry, University of Crete, Heraklion, Greece), Lawrence Bruce, Elisabeth Gibson, Igor V. Sazanovich, Athanassios G. Coutsolelos

Photochemical Hydrogen Evolution Using Sn-Porphyrin as Photosensitizer and a Series of Cobaloximes as Catalysts

S27-P-002

Julian Oelmann (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), **Martin Bröring**

Electrocatalytic Studies on Metal Corrole Complexes

S27-P-003

Toshikazu Ono (Department of Chemistry and Biochemistry / Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Md Jakir Hossain, Hideki Amii, Dorota Gryko, Yoshio Hisaeda

Electrochemical Trifluoromethylation and Perfluoroalkylation of Arenes and Heteroarenes by Vitamin B₁₂ Derivatives

S27-P-004

Hui Tian (Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Hisashi Shimakoshi, Gyurim Park, Sinheui Kim, Youngmin You, Yoshio Hisaeda

Remarkable Catalytic Performance of B₁₂ Complex with Cyclometalated Iridium(III) Complex as Photosensitized under Visible Light Irradiation

S27-P-005

Adelais Trapali (Department of Chemistry, University of Crete, Heraklion, Greece), Philipp Gotico, Georgios Charalambidis, Zakaria Halime, Ally Aukauloo, Athanassios G. Coutsolelos

Photocatalytic CO₂ Reduction with Covalently Linked Fe(III)porphyrin-Ru(bpy)₃ Dyads

S27-P-006

Xuan Zhan (Schulich Faculty of Chemistry, Technion – Israel Institute of Technology, Haifa, Israel), David G. Churchill, Zeev Gross

Property-Tuning for Photocatalysis, via Trifluoromethylated Phosphorus Corroles

S27-P-007

Zhuo-Yan Wu (College of Chemistry and Molecular Engineering, Peking University, Beijing, China) Yu Rao, Jun-Long Zhang

Deciphering the Importance of Functional Groups in Natural Tunichlorin Cofactor – Part II

S29 Antimicrobial Photodynamic Therapy

S29-P-001

Yuma Shisaka (Department of Chemistry, Nagoya University, Nagoya, Japan), Yusuke Iwai, Shiho Yamada, Takehiko Tosha, Hiroshi Sugimoto, Yoshitsugu Shiro, Yoshihito Watanabe, Osami Shoji

Selective Sterilization of *Pseudomonas Aeruginosa* Utilizing Phthalocyanine Captured by the Heme-Acquisition Protein HasA

S29-P-002

Wangbingfei Chen (Key Laboratory of Eco-Textiles, Jiangnan University, Wuxi, China), Sarah L. Stanley, Qufu Wei, Reza A. Ghiladi, Qingqing Wang

Photoactive Antimicrobial Textiles Based Upon Dual Dye-Colored Fabrics - Part II

S29-P-003

Kristina Sleziakova (Centre of Organic Chemistry Ltd., Rybitvi, Czech Republic) Radka Korinkova, Jiri Cerny, Lubomir Kubac

Smart Polyurethane Nanofibers – Part II

S31 Phthalocyanine Materials for PDT

S31-P-001

Vefa Ahsen (Department of Chemistry, Gebze Technical University, Kocaeli, Turkey), Gülçin Ekineker, Sümeyra Bayır, Laurence Raehm, Christophe Nguyen, Clarence Charnay, Magali Gary-Bobo, Fabienne Dumoulin, Jean-Olivier Durand

Preparation of Phthalocyanine-Based Periodic Mesoporous Organosilica Nanoparticles Using an Octapropargylated Zn Phthalocyanine

S31-P-002

Edith Dube (Department of Chemistry, Rhodes University, Grahamstown, South Africa), David O. Oluwole, Tebello Nyokong

Improved Photophysicochemical Properties of Thiopheneethoxy Substituted Zn Phthalocyanines Immobilized on Gold-Speckled Silica Nanoparticles – Part II

S31-P-003

Fabienne Dumoulin (Department of Chemistry, Gebze Technical University, Kocaeli, Turkey), Hoay Yan Cheah, Siew Hui Voon, Elena Gallon, Julie Movellan, Kia Hui Ng, Serkan Alpugan, Hong Boon Lee, See Ziau Hoe, Nina Japundžić-Žigon, Sofija Glumac, Prem Anand, María J. Vicent, Lip Yong Chung, Lik Voon Kiew

NIR Activatable Phthalocyanine-Poly-L-Glutamic Acid Conjugate: Increased Cellular Uptake, Light-Dark Toxicity Ratio, *in vivo* Safety and Antitumor Efficacy

S31-P-004

Rei Fujishiro (Graduate School of Science and Engineering, Shimane University, Matsue-shi, Japan), Katsumi Yoshino, Takuya Fujimura, Ryo Sasai, Takahisa Ikeue

Spectroscopic Properties and Singlet Oxygen Generation Abilities of Water-Soluble Metallophthalocyanine

S31-P-005

Jan Kollar (Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic), Alena Jancarova, Miloslav Machacek, Miroslav Miletin, Veronika Novakova, Petr Zimcik

Synthesis and Study of Photophysical Properties and Photodynamic Activity of New Sulfonated Tetrapyrazinoporphyrazine as Photosensitizer

S31-P-006

Wenyu Wu (Department of Chemistry, University of Zurich, Zurich, Switzerland), Nadine Giger, Lukas Schneider, Christiane König, Stefano Ferrari

Dual-Function Phthalocyanine Derivatives as Potential Agents for Imaging-Guided Cancer Photodynamic / Chemo-Therapy

S32 Targeting in PDT

S32-P-001

Gaole Dai (Department of Chemistry, Chinese University of Hong Kong, Hong Kong, China), Jonathan C.H. Choi, Dennis K.P. Ng

Polydopamine-Coated Gold Nanorods for Cancer-Related MicroRNA Detection and Photodynamic Therapy

S32-P-002

Fabienne Dumoulin (Department of Chemistry, Gebze Technical University, Kocaeli, Turkey), Mohamed Tarhouni, Denis Durand, Emel Önal, Dina Aggad, Ümit İsci, Frédérique Brégier, Bassem Jamoussi, Vincent Sol, Magali Gary-Bobo

Design, Synthetic Strategy, Photoproperties and Photodynamic Activity of a Triphenylphosphonium-Tetrasubstituted Zn(II) Phthalocyanine

S32-P-003

Dong Keun Han (Department of Biomedical Science / College of Life Sciences, Cha University, Seongnam, Korea), Wooram Park, Keun-Hong Park, Kun Na

pH-Responsive Polymeric Photosensitizer for Effective Cancer-Targeted Photodynamic Therapy

S32-P-004

Dahye Kim (Department of Biotechnology, Catholic University of Korea, Bucheon, Korea), Kun Na

Reactive Oxygen Species (ROS)-Mediated Endo / Lysosomal Escape of Drug for Targeted Cancer Treatment

S32-P-005

Sanghee Lee (Department of Biotechnology, Catholic University of Korea, Bucheon, Korea), Kun Na
Combination of Photodynamic and Antibacterial Therapy Using Lipase-Sensitive Liposomes for Skin Disorder

S32-P-006

Jeong Ju Lee (Department of Biotechnology, Catholic University of Korea, Bucheon, Korea), Kun Na
Both Ends of Hydrophilic Photosensitizer Combine with Cancer Targeting Moiety for Effective Photodynamic Therapy

S32-P-007

David O. Oluwole (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Tebello Nyokong, Sello L. Manoto, Patience Mthunzi-Kufa
Evaluation of the Photophysicochemical Properties and Photodynamic Therapy Effect of Zinc Phthalocyanine-Metallic Nanoparticles Conjugates – Part II

S32-P-008

Yang Xue (Department of Chemistry, Chinese University of Hong Kong, Hong Kong, China), Roy C.H. Wong, Clarence T.T. Wong, Dennis K.P. Ng
Imaging and Photodynamic Therapy of Colorectal Tumor Using Peptide-Conjugated Phthalocyanines

S32-P-009

Yimin Zhou (Department of Chemistry, Chinese University of Hong Kong, Hong Kong, China), Dennis K.P. Ng
Development of BODIPY-Based Bioorthogonal Turn-On Photosensitizers for Photodynamic Therapy

S34 Porphyrin-Based Cancer-Imaging and Therapy

S34-P-001

Valentin Studer (Department of Chemistry and Biochemistry, University of Bern, Bern, Switzerland), Marc Heitz, Jean-Louis Reymond, Julien Furrer, Martina Vermathen
Conjugation of Porphyrinic Photosensitizers to Peptide Dendrimers

S35 Heme Proteins and Synthetic Analogues

S35-P-001

Erwin Abucayon (Department of Chemistry and Biochemistry, University of Oklahoma, Norman, USA), Douglas Powell, George Richter-Addo
Reactivities of Bound NO in Ferric Heme Models

S35-P-002

Andrew Hunt (Department of Chemistry, University of Michigan, Ann Arbor, USA), Nicolai Lehnert
Synthesis and Spectroscopic Characterization of Ferric Heme-Thiolate Complexes as Models for Cytochrome P450_{nor}

S35-P-003

Kirstin Kleeberg (Institute of Inorganic and Analytical Chemistry, Technical University Braunschweig, Braunschweig, Germany), Jan Pippel, Wulf Blankenfeldt, Martin Bröring
Heme Proteins with Non-Natural Cofactor

S35-P-004

Yasuhiro Kudo (Department of Molecular Chemistry and Biochemistry, Doshisha University, Kyotanabe, Japan), Hiroaki Kitagishi
An Aqueous Biomimetic Model of the Heme / Cu Site of Cytochrome c Oxidase

S35-P-005

Qiyue Mao (Department of Molecular Chemistry and Biochemistry, Doshisha University, Kyotanabe, Japan), Hiroaki Kitagishi, Pradip Das, Stephane Le Gac, Bernard Boitrel
An Aqueous Biomimetic Model of Myoglobin with a Distal Polar Functionality

S35-P-006

Erika Sakakibara (Graduate School of Science, Nagoya University, Nagoya, Japan), Yuma Shisaka, Osami Shoji, Hiroshi Sugimoto, Yoshihito Watanabe
Incorporation of Synthetic Metal Complexes into Heme Acquisition Proteins of *Pseudomonas Aeruginosa*

S38 Heme Enzymes: Structure and Function

S38-P-001

Hendrik Auerbach (Department of Physics, University of Kaiserslautern, Kaiserslautern, Germany), Isabelle Faus, Sergej Rackwitz, Juliusz A. Wolny, F. Ann Walker, Aleksandr I. Chumakov, Hideaki Ogata, Markus Knipp, Volker Schünemann
NO Heme Interactions in Nitrophorins

S38-P-002

Stefan Hofbauer (Department of Chemistry, University of Natural Resources and Life Sciences, Vienna, Austria), Lisa Milazzo, Georg Mlynek, Thomas Gabler, Barry D. Howes, Vera Pfanzagl, Kristina Djinovic-Carugo, Paul G. Furtmüller, Giulietta Smulevich, Christian Obinger
Mechanistic Studies on Coproheme Decarboxylase

S38-P-003

Gudrun Lukat-Rodgers (Department of Chemistry and Biochemistry, North Dakota State University, Fargo, USA), Bennett Streit, Celis Arianna, Genevieve Coe, Jennifer DuBois, Kenton Rodgers
Roles of Heme Pocket Residues in Directing the Reactivity of Coproheme Decarboxylase

S38-P-004

Lisa Milazzo (Department of Chemistry Ugo Schiff, University of Florence, Sesto Fiorentino, Italy), Stefan Hofbauer, Barry D. Howes, Thomas Gabler, Paul G. Furtmüller, Christian Obinger, Giulietta Smulevich
Coproheme Decarboxylase from *Listeria Monocytogenes*: Insight into the Active Site Structure

S38-P-005

Vera Pfanzagl (Department of Chemistry, University of Natural Resources and Life Sciences, Vienna, Austria), Stefan Hofbauer, John Beale, Georg Mlynek, Hanna Michlits, Kevin Nys, Sabine Van Doorslaer, Kristina Djinovic-Carugo, Paul G. Furtmüller, Christian Obinger
Crystal and Electronic Structure of Compound I in Dye-Decolorizing Peroxidases

S38-P-006

Benjamin Sevcnikar (Department of Chemistry, University of Natural Resources and Life Sciences, Vienna, Vienna, Austria), Martina Paumann-Page, Romy-Sophie Katz, Monika Soudia, Paul G. Furtmüller, Christian Obinger
Substrate Specificity and Solution Structure of Truncated Human Peroxidase 1

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Kazuto Suzuki (Department of Chemistry / Graduate School of Science, Nagoya University, Nagoya, Japan), Osami Shoji, Joshua Kyle Stanfield, Sota Yanagisawa, Hiroshi Sugimoto, Yoshitsugu Shiro, Yoshihito Watanabe
Development of Stereoselective Oxidation System Catalyzed by Cytochrome P450BM3 Using Decoy Molecules

S38-P-008

Lorenzo Tognaccini (Department of Chemistry Ugo Schiff, University of Florence, Sesto Fiorentino, Italy), Tiziana Placido, Barry D. Howes, Angela Agostiano, Giulietta Smulevich
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S42 Chemistry and Biology of Chlorophylls and Bacteriochlorophylls

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Marie Doi (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Hitoshi Tamiaki
Synthesis of Chlorophyll Derivatives with an Additional *exo*-Cyclic Ring and their Physical Properties

S42-P-002

Jiro Harada (Department of Biochemistry, Kurume University School of Medicine, Kurume, Japan), Tadashi Mizoguchi, Yusuke Kinoshita, Ken Yamamoto, Hitoshi Tamiaki
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Jiro Harada (Department of Biochemistry, Kurume University School of Medicine, Kurume, Japan), Yusuke Kinoshita, Tadashi Mizoguchi, Ken Yamamoto, Hitoshi Tamiaki
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Cornelia Karg (Department of Pharmacy / Pharmaceutical Biology, Ludwig Maximilian University, Munich, Germany), Stefan Zahler, Angelika Vollmar, Simone Moser
Probing the Effects of Tetrapyrroles Derived from Chlorophyll Breakdown on Cancer Cells

S42-P-005

Kota Ohashi (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Yusuke Kinoshita, Hitoshi Tamiaki
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Hitoshi Tamiaki (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Naoya Funayama
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Hitoshi Tamiaki (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Yasunobu Nagano, Shin Ogasawara

Preparation of Regioisomerically Pure Chlorin e_6 Dimethyl Esters

S43 Theory and Spectroscopy

S43-P-001

Yongseok Hong (Department of Chemistry, Yonsei University, Seoul, Korea), Juwon Oh

The Extension of Baird's Rule to Twisted Heteroannulene: Aromaticity Reversal of Twisted [36]Octaphyrins in the Lowest Triplet State

S43-P-002

Sangdeok Shim (Department of Chemistry, Sunchon National University, Sunchon, Korea), Sung Cho

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S43-P-003

Daisy Wong (Department of Chemistry, University of Western Ontario, London, Canada), Deborah Chan, Martin J. Stillman

Spectroscopic and Computational Studies of Fluorinated Zinc Phthalocyanines as a Photosensitizer in Dye-Sensitized Solar Cells

S43-P-004

Angel Zhang (Department of Chemistry, University of Western Ontario, London, Canada), Martin Stillman

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Austria

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Gonglach, Sabrina
Haas, Michael
Hofbauer, Stefan
Kieninger, Christoph
Knör, Günther
Kraeutler, Bernhard
Obinger, Christian
Pfanzagl, Vera
Plaetzer, Kristjan
Schneider, Johannes
Schoefberger, Wolfgang
Sevcnikar, Benjamin

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Belgium

Boodts, Stijn
De Wael, Karolien
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Brazil

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Stival, Joao Felipe
Teixeira Tasso, Thiago

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Kim, Geonwoo
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Kim, Minki
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Lee, Chang-Hee
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Lee, Hyunkyoo
Lee, Jaemoon
Lee, Jeong Heon
Lee, Jeongju
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Park, Jong Seung
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Gurek, Ayse Gul

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