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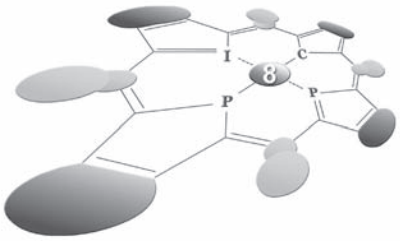

Ninth International Conference on Porphyrins and Phthalocyanines (ICPP-9)

July 3-8, 2016, Nanjing China

Organized by
Society of Porphyrins and Phthalocyanines (SPP)

Hosted by
Jiangsu University
Jiangsu Chemical Industry Association

Co-hosted by
Anhui Normal University
Hunan Normal University
Professional Committee of Material Chemistry
Jiangsu Chemical Industry Association

Scope of the Conference

All aspects of porphyrins, phthalocyanines and related macrocycles will be discussed in the form of Plenary Lectures, Keynote Talks, Symposium Lectures, short oral presentations and posters over the full five-day period of the meeting. Six scientists will be honored by Lifetime Achievement Awards in 2016 and three JPP/SPP Young Investigator Awards will also be presented at the meeting. In addition, a new John Shelnutt Young Investigator Award will be presented for the first time in 2016. All awards will be accompanied by highlighted award lectures.

Chairman
Zhongping Ou *(Jiangsu University ,China)*
Jianzhuang Jiang *(University of Science & Technology Beijing)*

ICPP-9 Secretary of China
Yuanyuan Fang *(Jiangsu University ,China)*

National Representatives:
see SPP website at: **http://www.u-bourgogne.fr/spp/**

ICPP-9 website at **http://www.icpp-spp.org**

Ninth International Conference on Porphyrins and Phthalocyanines (ICPP-9)

July 3-8, 2016
Nanjing, China

Scientific program arranged by day

Sunday, 3 July, 2016

Conference Registration

14:00 to 18:00
Zhongshan Hotel, lobby of the conference center

Welcome Reception

18:30 to 20:30
Zhongshan Hotel, first floor of the main building

Monday, 4 July, 2016 - Morning

Opening Ceremony

Room 1

08:00 to 08:30
Opening remarks

Award Lecture
Linstead Career Award in Phthalocyanine Chemistry

Room 1

Chaired by: M. Salome Rodriguez Morgade

08:30 to 09:30
Tomas Torres (Autonoma University of Madrid, Madrid, Spain)
Phthalocyanines: Old Dyes, New Molecular Materials

09:30 to 10:00
Coffee break

S01 Corrole Synthesis and Functionalization (Part 1)

Room 1

Chaired by: Wouter Maes and Roberto Paolesse

10:00 to 10:20

Daniel T Gryko (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Rafał Orłowski, Barbara Ventura

Self-assembling corroles

10:20 to 10:40

Gabriel Canard (Aix-Marseille-University, CINaM UMR 7325, Marseille cedex 9, France), Teodor Silviu Balaban, Di Gao, Michel Giorgi, Anthony D'Aléo, Christine Videlot-Ackermann

Unravelling the Relationship between Peripheral Substituents and their Steric and Electronic Effects in Corroles Derivatives

10:40 to 11:00

Mikalai Kruk (Belarusian State Technological University, Physics Department, Minsk, Belarus), Wouter Maes, Thien Huynh Ngo, Wim Dehaen

Optical properties of free base meso-triarylcorroles

11:00 to 11:20

Manuela Stefanelli (Dipartimento di Scienze e Tecnologie Chimiche, Università di Roma Tor Vergata, Rome, Italy), Federica Mandoj, Mario Luigi Naitana, Sara Nardis, Giuseppe Pomarico, Roberto Paolesse

New Synthetic Methodologies Leading to β-Substituted Corrole Derivatives

11:20 to 11:40

Mario L. Naitana (ICMUB-P2DA (UMR CNRS 6302), Université de Bourgogne Sciences et Techniques, Dijon cedex, France), Nicolas Desbois, Stéphane Brandes, Franck Gallardo, Xiaoqin Jiang, Karl Kadish, Virginie Blondeau-Patissier, Claude P. Gros

Synthesis and Design of Corroles Endowed with Electron Withdrawing Groups: Examples of Applications

11:40 to 12:00

Takayuki Tanaka (Kyoto University, Kyoto, Japan), Shota Ooi, Kento Ueta, Atsuhiro Osuka

Redox-Interconversions in Fused Corrole Dimers

S08 Advances in the Chemistry of Porphyrazines (Substituted and Annulated)

Room 2

Chaired by: Pavel A. Stuzhin and Petr Zimčik

10:00 to 10:20

Kunio Awaga (Department of Chemistry, Nagoya University, Nagoya, Japan)

Organic Electronics of Phthalocyanines Assisted by Electric Double Layers in Ionic Liquids

10:20 to 10:40

Rüdiger Faust (Institute for Chemistry, University of Kassel, Kassel, Germany), Verena Engelhardt, Patricia Löser, Roman Münnich

Tackling "desymmetrized" [3+1]Porphyrazines

10:40 to 11:00

Taniyuki Furuyama (Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Japan), Takuya Yoshida, Wen Zhou, Daniel Leznoff, Nagao Kobayashi

An Air-stable 19[pi] Azaporphyrinoid Radical

11:00 to 11:20

Tomasz Goslinski (Department of Chemical Technology of Drugs, Poznan University of Medical Sciences, Poznan, Poland)

Selected Sulfur and Nitrogen Porphyrazines: from Synthesis to Physico-Chemical Properties and Biological Activity

11:20 to 11:40

Kejian Deng (College of Chemistry and Material Science, South-central University for Nationalities, Wuhan, China), Peng Zhou, Bingguang Zhang, Changjun Yang, Zehui Zhang

Synthesis of Novel Asymmetrical Cobalt Monobenzo- Thioporphyrazines and their Bio-inspired Catalytic Property

11:40 to 12:00

Miroslav Miletin (Department of Pharmaceutical Chemistry and Drug Control, Charles University in Prague, Faculty of Pharmacy Hradec Kralove, Hradec Kralove, Czech Republic), Kamil Kopecky, Veronika Novakova, Petr Zimcik, Radim Kucera

Azaphthalocyanine-Oligonucleotide Conjugates

S21 Porphyrin Assemblies in Confined Space: from Structural Control to Function

Room 3

Chaired by: Minghua Liu, Penglei Chen and Akihiko Tsuda

10:00 to 10:20

Penglei Chen (Institute of Chemistry, Chinese Academy of Sciences, Beijing, China)
Advanced Materials based on Porphyrins and Graphene Oxide *via* Colloid and Interface Protocols

10:20 to 10:40

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

Photofunctional Supramolecular Architectures Composed of Porphyrin and Polycyclic Aromatic Hydrocarbon Derivatives

10:40 to 11:00

Jonathan Hill (WPI Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Japan), Yongshu Xie, Misaho Akada, Yutaka Wakayama, Katsuhiko Ariga

Porphyrin Clamp and Tripod for Surface Assemblies

11:00 to 11:20

Huibiao Liu (Institute of Chemistry, Chinese Academy of Sciences, Beijing, China)

Synthesis, Self-assembly and Aggregations Nanostructures of Moleular Materials Based Porphyrin Unit

11:20 to 11:40

Linqi Shi (Key Laboratory of Functional Polymer Materials of Ministry of Education, Institute of Polymer Chemistr, Tianjin, China), Ruolin Wang

Assembly and Functionalization of Block Polymers/Porphyrins

11:40 to 12:00

Walter F. Smith (Haverford College, Physics Dept, Haverford, USA), Peco Myint, Emma R. Oxford, Collence Nyazenga, Stefanos G. Logothetis, Zhengqing John Qi, A. T. Johnson

Photoelectronic Properties of DNA-porphyrin Complexes

S28 Porphyrin-based Compounds for Cancer-Imaging and Therapy - a Translational Approach

Room 5

Chaired by: Ravindra K. Pandey and H. Bai

10:00 to 10:20

Qicheng Fang (Department of Chemistry of Natural Products, Institute of Materia Medica, Chinese Academy of Medical Sciences, Beijing, China)

Sinoporphyrin sodium-a novel antineoplastic sensitizing agent for photodynamic therapy

10:20 to 10:40

Zeev Gross (Schulich Faculty of Chemistry, Technion - Israel Institute of Technology, Haifa, Israel), Jae Y. Hwang, Lali K. Medina-Kauwe, Ruijie D. Teo, Harry B. Gray, Punna Lim, John Termini, Matan Soll, Atif Mahammed

Tumor detection and elimination by targeted corrole metal complexes

10:40 to 11:00

Michael Hamblin (Massachusetts General Hospital, Boston, USA)

Photochemical mechanisms in antimicrobial photodynamic inactivation

11:00 to 11:20

Ravindra Pandey (PDT Center, Cell Stress Biology, Buffalo, USA), Marko Aimee, Kevin Siters, Farukh Durrani, Ramona Watson, Joseph Missert, Joseph Cacaccio

Impact of Delivery Vehicles in Tumor-Target Specificity of Cancer-Imaging and Therapeutic Agents (Theranostics)

11:20 to 11:40

Chulhong Kim (Department of Creative IT Engineering, Pohang University of Science and Technology (POSTECH), Pohang, Korea)

In Vivo Multiscale Photoacoustic Based Theraonstics

11:40 to 12:00

Ye Tian (Division of Cardiology, The First Affiliated Hospital, Harbin Medical University, Harbin, China)

Rapid stabilisation of atherosclerotic plaque with 5-aminolevulinicacid-mediated sonodynamic therapy

S31 Electron Transfer Applications of Tetrapyrroles

Room 4

Chaired by: Francis D' Souza and Dirk M. Guldi

10:00 to 10:20

Bo Albinsson (Department of Chemistry and Chemical Engineering, Chalmers University of Technology, Gothenburg, Sweden)

Delocalization and Electron Transfer in Conjugated Systems

10:20 to 10:40

Eric Borguet (Department of Chemistry, Temple University, Philadelphia, USA)

Charge Transport through Single Porphyrins and Related Molecules

10:40 to 11:00

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

Spectroscopic Evidence for Baird's Rule: Janus-faced Hexaphyrins

11:00 to 11:20

Kei Ohkubo (Department of Material and Life Science, Graduate School of Engineering, Osaka University, Suita, Japan), Shunichi Fukuzumi

Supramolecular Electron-Transfer Chemistry of $Li^+@C_{60}$ with Porphyrinoids

11:20 to 11:40

Nikolai Tkachenko (Department of Chemistry and Bioengineering, Tampere University of Technology, Tampere, Finland), Hanna Hakola, Kati Stranius, Lijo George, Alexander Efimov

Photoinduced Charge Transfer Across Organic Monolayer on Semiconductor Surface

S39 Vitamin B12: Crossing all Borders

Room 6

Chaired by: Felix Zelder and Dorota Gryko

10:00 to 10:20

Nicola Brasch (School of Applied Sciences, Auckland University of Technology, Auckland, New Zealand), Diane Cabelli, Rohan Dassanayake, Jacob Shelley

Exploring the Chemistry of Vitamin B12 derivatives with Reactive Oxygen Species

10:20 to 10:40

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

Hybrid Model of Cobalamin-Binding Domain in Methionine Synthase: Myoglobin Reconstituted with a Tetradehydrocorrin Cobalt Complex

10:40 to 11:00

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

Bioinspired Catalysts based on Vitamin B12 Chemistry

11:00 to 11:20

Sergei Makarov (State University of Chemistry and Technology, Ivanovo, Russia)

Vitamins B12 and C. Interplay in the Presence of Sulfur-Containing Compounds

11:20 to 11:40

Bernhard Spingler (Department of Chemistry, University of Zurich, Zurich, Switzerland), Felix Zelder

Structures of modified B12 molecules

11:40 to 12:00

Bernhard Kräutler (Institute of Organic Chemistry, University of Innsbruck, Innsbruck, Austria)

Novel Organometallic B12-Chemistry

S44 Computational Advances in Porphyrin and Phthalocyanine Chemistry

Room 7

Chaired by: Samuel de Visser and Li Ji

10:00 to 10:20

Hajime Hirao (Division of Chemistry and Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore, Singapore)

Computational Insights into Metal-Oxo Species in Heme and Nonheme Environments

10:20 to 10:40

Kasper Kepp (DTU Chemistry, Technical University of Denmark, Kongens Lyngby, Denmark)

The Molecular Evolution of Heme: From Quantum Spin Crossover to Myoglobin in Diving Mammals

10:40 to 11:00

Leeor Kronik (Weizmann Institute of Science, Rehovoth, Israel)

Electronic structure of metal-phthalocyanine and –corrole complexes from first principles

11:00 to 11:20

Martin Stillman (Dept. of Chemistry, The University of Western Ontario, London, Canada)

Trends in the Absorption Spectra of Peripherally-substituted Porphyrins and Phthalocyanines as a Function of the Energies of the Top Two Occupied and the Lowest Two Unoccupied Orbitals

11:20 to 11:40

Yong Wang (Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou, China)

Cytochrome P450-Catalyzed reactions triggered by X-H (X = N, O) bond activation: A tale of the PCET mechanism

11:40 to 12:00

Yong Zhang (Department of Chemistry, Chemical Biology and Biomedical Engineering, Stevens Institute of Technology, Hoboken, USA), Rahul Khade

Catalytic and Biocatalytic Iron Porphyrin Carbene Formation: Effects of Binding Mode, Carbene Substituent, Porphyrin Substituent, and Protein Axial Ligand

MONDAY

Monday, 4 July 2016, Afternoon

S01 Corrole Synthesis and Functionalization (Part 2)

Room 1

Chaired by: Wouter Maes and Roberto Paolesse

13:30 to 13:50

Yuanyuan Fang (Jiangsu University, Zhenjiang, China), Yue Wang, Wenda Wang, Minyuan Chen, Weijie Xu, Zhongping Ou

Electrochemistry of Mono- and Bis-Cobalt and Manganese Triarylcorroles and Catalytic Activities for Electroreduction of Molecular Oxygen in Acid Media

13:50 to 14:10

Karl M. Kadish (Department of Chemistry, University of Houston, Houston, USA), Xiangyi Ke, Lei Cong, Xiaoqin Jiang, Wenqian Shan, Yang Song, Yuanyuan Fang, Zhongping Ou

Electrochemistry of corroles. New insights into the redox reactions of a not so new molecule

14:10 to 14:30

Huynh Thien Ngo (National Institute for Materials Science, Tsukuba, Japan)

Sacrificial Rotaxane – When Copper Demetallation Fails to Provide Free Base Corrole Porphyrin Conjugates

14:30 to 14:50

Jeyaraman Sankar (Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, India), Murugavel Muthuchamy

Multichromophoric Assemblies from Directly-linked Corrole-Porphyrin Units

14:50 to 15:10

Xian-Fu Zhang (Institute of Applied Photochemistry, Hebei Normal University of Science and Technology, Qinhuangdao, China), Xulin Lu, Hao Geng

Functionalized Triazatetrabenzocorroles: Synthesis, Photophysics, Electrochemistry and Photovoltaic Applications

15:10 to 15:30

Abhik Ghosh (Department of Chemistry, UiT - The Arctic University of Norway, Tromso, Norway), Rune F. Einrem, Abraham B. Alemayehu, Henrik Braband, Hugo Vazquez-Lima, Roger Alberto

Comparative studies of 4d and 5d metallocorroles: New $Tc^{V}O$ and $Ru^{VI}N$ corroles

15:30 to 16:00

Coffee break

MONDAY

S05 SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids

Room 2

Chaired by: Atsuhiro Osuka, Soji Shimizu and Salome Rodriguez Morgade

13:30 to 13:50

Andrew Cammidge (School of Chemistry, University of East Anglia, Norwich, United Kingdom), Sonia Remiro-Buenamanana

TribenzodiazaSubporphyrins (Sub-TBDAPs)

13:50 to 14:10

Milosz Pawlicki (Department of Chemistry, University of Wroclaw, Wroclaw, Poland)

Properties of Oxatriphyrins(n.1.1) Tuned by Coordination

14:10 to 14:30

David Gonzalez-Rodriguez (Universidad Autonoma de Madrid, Madrid, Spain), Julia Guilleme, Tomas Torres, Maria Jose Mayoral

Polar Self-assembled Subphthalocyanine Materials

14:30 to 14:50

Eiji Tsurumaki (Department of Chemistry, Graduate School of Science, Kyoto-University, Kyoto, Japan), Atsuhiro Osuka

Subporphyrinatoboron(III) Hydrides and Peroxides

14:50 to 15:10

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

Synthesis of Oxatriphyrin(2.1.1) and its Boron Complex

15:10 to 15:30

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

Boron Subphthalocyanines and Boron Subnaphthalocyanines; Very Versatile Materials with Robust Chemistry for Application in Organic Photovoltaics

15:30 to 16:00

Coffee break

S13 Exotic Coordination Chemistry of Porphyrinoid Systems and its Applications

Room 3

Chaired by: Bernard Boitrel and Penny Brothers

13:30 to 13:50

John Arnold (UC Berkeley, Berkeley, USA)

Synthesis and characterization of out-of-plane corrole complexes with large electropositive metals

13:50 to 14:10

Chang-Hee Lee (Kangwon National University, Chemistry, Chun Cheon, Korea)

π-Conjugated Oligopyrrolic Macrocycles: Rare Classes of Porphyrinoids

14:10 to 14:30

Sebastien Richeter (University of Montpellier, Institut Charles Gerhardt, Montpellier, France), Jean-François Longevial, Magali Gary-Bobo, Charles H. Devillers, Sebastien Clement, Pierre D. Harvey

Synthesis and Properties of Porphyrins Conjugated with Peripheral N-Heterocyclic Carbene Gold(I) Complexes

14:30 to 14:50

Alexander Sorokin (IRCELYON, CNRS, Villeurbanne, France)

Single-Atom Bridged Diiron Macrocyclic Complexes: Influence of the structure on catalytic properties

14:50 to 15:10

Shengfa Ye (Max-Planck Institute for Chemical Energy Conversion, Mülheim an der Ruhr, Germany), Huayi Fang, Christian Roemelt, Thomas Weyhermueller, Penelope J. Brothers, Eckhard Bill, Serena DeBeer, Xuefeng Fu, Frank Neese

Small Molecule Activation Mediated by Porphyrin and Corrole Complexes

15:10 to 15:30

Liang Zhao (Department of Chemistry, Tsinghua University, Beijing , China)

Macrocycle-Directed Controllable Synthesis of Polynuclear Metal Clusters

15:30 to 16:00

Coffee break

S29 Nanotechnology in Delivering PDT Agents to Tumors

Room 5

Chaired by: Zhuang Liu

13:30 to 13:50

Yongdoo Choi (Molecular Imaging and Therapy Branch, National Cancer Center, Goyang, Korea), Hyunjin Kim, Jisu Kim

Activatable Theranostic Agents for Near-infrared Fluorescence Imaging and Photodynamic Therapy

13:50 to 14:10

Anu Puri (RNA Structure and Design Section, Gene Regulation and Chromosome Biology Lab, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Frederick, USA), Mathias Viard, Henry Reichard, Jules Chabot, Farkuh Durrani, Aimee Marko, Ramona Watson, Ravindra Pandey

Novel application(s) of Hydrophobic PDT Molecules for onsite Cargo Release from Lipid-based Drug Delivery Platforms

14:10 to 14:30

Zhuang Liu (Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University, Suzhou, China)

Nanotechnology to overcome tumor hypoxia for enhanced photodynamic therapy of cancer

S30 Basic and Clinical Research in PDT

Room 5

Chaired by: Qicheng Fang, Ying Gu, Libo Li and Naisheng Chen

14:30 to 14:50

Ying Ji (Neurosurgical Center, Beijing Tiantan Puhua Hospital, Beijing, China), Wangmin Che

Sonodynamic Therapy for Treating Brain Stem Cancer

14:50 to 15:10

Hai-Yang Liu (Department of Chemistry, Guangzhou, China), Zhao Zhang, Jin-Yan Wen, Biao-Biao Lv, Xu Li, Xiao Ying, Ya-Jun Wang, Hai-Tao Zhang, Hui Wang, Hai-Yang Liu, C.-K. Chang

Photocytotoxicity and G-quadruplex DNA interaction of water soluble gallium(III) tris(N-methyl-4-pyridyl)corrole complex

15:10 to 15:30

Xiaobing Wang (College of Life Sciences, Shaanxi Normal University, Xi an, China), Pan Wang, Wenli Xiong, Quanhong Liu

A New Sensitizer DVDMS Combined with Multiple Focused Ultrasound Treatment: An Effective Antitumor Strategy

15:30 to 15:50

Xin Zheng (Clinical Pharmacology Research Center, Peking Union Medical College Hospital, Beijing, China), Yiming Zhang, Jinping Xue, Xinxiang Zhang, Naisheng Chen

Human mass balance study of the novel anticancer agent photocyanine using accelerator mass spectrometry

15:30 to 16:00

Coffee break

S34 Porphyrinoids for Dye-Sensitized and Bulk Heterojunction Organic Solar Cells (Part 1)

Room 4

Chaired by: Hiroshi Imahori

13:30 to 13:50

Peng Wang (Department of Chemistry, Zhejiang University, Hangzhou, China), Min Zhang, Zhaoyang Yao, Lin Yang, Jing Zhang

Dye-Sensitized Solar Cells: the Present Status, Challenges, and Future Chances

13:50 to 14:10

Ching-Yao Lin (National Chi Nan University, Puli, Taiwan), Chin-Li Wang, Min Zhang, Yu-Hsin Hsiao, Chuan-Kai Tseng, Chia-Lin Liu, Mingfei Xu, Peng Wang

Porphyrins Bearing a Consolidated Anthryl Donor with Dual Functions for Efficient Dye-sensitized Solar Cells

14:10 to 14:30

Chen-Yu Yeh (Department of Chemistry, National Chung Hsing University, Taichung, Taiwan), Chi-Lun Mai, Chiranjeevulu Kashi, Hsien-Hsin Chou, Hsuan-Wei Lee, Bo-Cheng Guo

Porphyrins for New Generation Solar Cells

14:30 to 14:50

Angela Sastre-Santos (Instituto de Bioingeniería/Universidad Miguel Hernández de Elche, Elche, Spain), Jorge Follana-Berná, Desiré Molina, Luis Martín-Gomis, Martín M. León, Fernando Fernández-Lázaro

Fully Conjugated Phthalocyanine-Electroactive Systems in Dye Sensitized Solar Cells

14:50 to 15:10

Shogo Mori (Division of Chemistry and Materials, Faculty of Textile Science and Technology, Shinshu University, Ueda, Japan)

Molecular Design Guide to Achieve More than 15% Energy Conversion Efficiency for Dye-Sensitized Solar Cells

15:10 to 15:30

Hwan Kyu Kim (Department of Advanced Materials Chemistry, Korea University, Sejong, Korea), Yu Kyung Eom, Sung Ho Kang

Zn-Porphyrin Sensitizers for Superior Performance Dye-Sensitized Solar Cells and their Tandem Solar Cells

15:30 to 16:00

Coffee break

S37 Heme Proteins and Analogues (Part 1)

Room 6

Chaired by: T. Hayashi

13:30 to 13:50

Koichiro Ishimori (Department of Chemistry, Faculty of Science, Hokkaido University, Sapporo, Japan)

Functional and Structural Characterization of Heme Binding in Heme-regulated Proteins

13:50 to 14:10

Emily Weinert (Department of Chemistry, Emory University, Atlanta, USA), Justin Burns, Shannon Rivera

Oxygen-Dependent Globin Coupled Sensor Signaling

14:10 to 14:30

Shigetoshi Aono (Okazaki Institute for Integrative Bioscience & Institute for Molecular Science, Okazaki, Japan)

Structural Basis for Heme Acquisition in Corynebacterium glutamicum

14:30 to 14:50

Shun Hirota (Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Japan), Satoshi Nagao, Yugo Hayashi, Takaaki Miyamoto, Chunguang Ren, Masaru Yamanaka, Ying-Wu Lin, Hirofumi Komori, Yasuhito Shomura, Yoshiki Higuchi

Domain Swapping of *c*-Type Cytochromes and Myoglobin

14:50 to 15:10

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

Electrochemical and Spectroscopic Studies of the Reaction of Iron Porphyrin Nitroxyl Ions with Weak Acids

15:10 to 15:30

John Groves (Department of Chemistry, Princeton University, Princeton, USA), Xiaoshi Wang, Christin Monroe, Kevin Speina

Exploring the reactivity of heme-thiolate oxygenases and peroxygenases – P450 *vs* APO

15:30 to 16:00

Coffee break

S45 Theory and Spectroscopy

Room 7

Chaired by: Martin Stillman and Nagao Kobayashi

13:30 to 13:50

Heike Fliegl (Centre for Theoretical and Computational Chemistry, CTCC, University of Oslo, Oslo, Norway)

Predicting the degree of aromaticity of novel porphyrinoids

13:50 to 14:10

Atsuya Muranaka (RIKEN, Wako, Japan), Shunsuke Yanagi, Naoyuki Toriumi, Masanobu Uchiyama

Synthesis and Electronic Properties of Benziphthalocyanines with a Cross-Conjugated 20π Electron System

14:10 to 14:30

Angela Rosa (Dipartimento di Scienze, Università della Basilicata, Potenza, Italy), Giampaolo Ricciardi, Giovanna De Luca, Andrea Romeo, Maria Rosaria Plutino, Luigi Monsù Scolaro

Platinum(II) Insertion in Meso Tetraaryl Porphyrins: Mechanistic Insights from Density Functional Theory Calculations

14:30 to 14:50

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

Tautomerism in Porphyrin Isomers

14:50 to 15:10

Andreas Goetz (San Diego Supercomputer Center, University of California at San Diego, La Jolla, USA), Longhua Yang, Age Skjevik, Ross Walker, Wen-Ge Han Du, Louis Noodleman

Insights into Structure and Mechanism of Cytochrome *c* Oxidase from Computer Simulations

15:10 to 15:30

Li Ji (College of Environmental and Resource Sciences, Zhejiang University, Hangzhou, China)

Combined Experimental and Theoretical Study on the Reactivity of Compounds I and II in Horseradish Peroxidase Biomimetics

15:30 to 15:50

Leonhard Grill (Department of Physical Chemistry, University of Graz, Graz, Austria)

Manipulation of Single Porphyrin and Porphycene Molecules: Every Atom Counts

15:50 to 16:00

Coffee break

S48 Synthesis and Properties of New Porphyrinoid Derivatives

Room 1

Chaired by: Wubiao Dua

16:00 to 16:10

Giuseppe Pomarico (Department of Chemical Science and Technologies, University of Rome Tor Vergata, Rome, Italy), Federica Mandoj, Frank R. Fronczek, Kevin M. Smith, Roberto Paolesse

One molecule and two chelating systems for more binding opportunities

16:10 to 16:20

Masatoshi Ishida (Department of Chemistry and Biochemistry, Graduate School of Engineering and Education Center for Global Leaders in Molecular Systems for Devices, Kyushu University, Fukuoka, Japan), Koki Ogasahara, Hiroyuki Furuta

Doubly N-Confused [26]Hexaphyrin Bis-metal Complexes with Group 10 Metal Elements as Near-IR Dyes

16:20 to 16:30

Iti Gupta (Chemistry Department, IIT Gandhinagar, Ahmedabad, India), Praseetha E. Kesavan, Sudipta Das

Bridged Bis-BODIPYs: Synthesis & Studies

16:30 to 16:40

Anna Arkhypchuk (Uppsala University, Uppsala, Sweden), Eszter Borbas

Ferrocene substituted chlorins – synthesis and properties

S49 Materials and Self Assemblies

Room 2

Chaired by: Lijuan Jiao

16:00 to 16:10

Samson Khene (Rhodes University, Grahamstown, South Africa), Grace Ngubeni, Kapambwe Kabwe, Jonathan Britton

Synthesis, Spectroscopy and Nonlinear Optical Properties of Nickel Binuclear Phthalocyanine Complexes

16:10 to 16:20

Ewa Dudziak (nee Pacholska) (Department of Chemistry, University of Wroclaw, Wroclaw, Poland), Aleksandra Ksiazek, Michal Szczepaniak, Lechoslaw Latos-Grazynski

Metallacycles built-in the porphyrin skeleton

16:20 to 16:30

Shigeki Mori (Advanced Research Support Center, Ehime University, Matsuyama, Japan), Naoki Kawamoto, Masayoshi Takase, Tetsuo Okujima, Hidemitsu Uno

Synthesis and Properties of Bisporphyrins with Two Bicyclic Units

16:30 to 16:40

Christophe Kahlfuss (Université de Strasbourg, Strasbourg, France), Christophe Bucher, Eric Saint-Aman, Elise Dumont

Redox-controlled molecular assemblies: A new porphyrin-based molecular tweezer

16:40 to 16:50

Larissa Maiorova-Valkova (Research Institute of Macroheterocyclic Compounds, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Oskar Koifman

Physical Approach to Formation of Supermolecular Macroheterocyclic Nanomaterials

S50 Biomedical Applications of Porphyrins and Related Derivatives

Room 3

Chaired by: Stanley Brown

16:00 to 16:10

Nicolas Desbois (ICMUB, UMR CNRS 6302, Dijon, France), Clément Michelin, Yi Chang, Claude P. Gros

Synthesis of Corroles for Medical Imaging Applications

16:10 to 16:20

Jonathan Britton (Chemistry, Grahamstown, South Africa), Zane Watkins, Ojodomo Achadu

An examination of Fluorescence Resonance Energy Transfer between phthalocyanines and nanomaterials

16:20 to 16:30

Martina Vermathen (Department of Chemistry and Biochemistry, Bern, Switzerland), Ilche Gjuroski, Julien Furrer

Encapsulation of Porphyrinic Photosensitizers into Polymers monitored by NMR Spectroscopy

16:30 to 16:40

Xin Sun (Division of Cardiology, the First Affiliated Hospital, Cardiovascular Institute, Harbin Medical University, Harbin, China), Zhitao Li, Shuyuan Guo, Ye Tian

Rapid Stabilization of Atherosclerotic Plaque with 5-Aminolevulinic Acid Mediated Sonodynamic Therapy

S51 Synthesis and Properties of New Porphyrinoid Derivatives

Room 4

Chaired by: Kejian Deng

16:00 to 16:10

Bingguang Zhang (College of Chemistry and Material Sciences, South-central University for Nationalities, Wuhan, China), Peng Zhou, Yang Liu, Xuanmu Zhou, Kejian Deng

A Novel Biomimic Catalyst for the Aerobic Oxidation: Metal Corrolazines

16:10 to 16:20

Inez Weidinger (Department of Chemistry, Technische Universität Berlin, Berlin, Germany), Huong Khoa Ly, Patrycja Kielb, Robert Götz, Pierre Wrzolek, Matthias Schwalbe

Charge transfer dynamics and electrocatalytic activity of porphyrin based hangman complexes on electrodes probed *via* surface enhanced vibrational spectroscopy

16:20 to 16:30

Keith o Proinsias (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland)

Vitamin B12 Catalysis: A Novel Twist on a Classic Compound

Award Lecture
Eraldo Antonini Award

Room 1

Chaired by: Roberto Paolesse

17:00 to 18:00

Maurizio Brunori (Dept of Biochemical Sciences, Sapienza University of Rome, Rome, Italy), Paolo Ascenzi

A Molecule for All Seasons: The Heme

Tuesday, 5 July 2016, Morning

Award Lecture
Thomas Dougherty Award for Excellence in PDT

Room 1

Chaired by: Ravindra Pandey

08:30 to 09:30
Stanley B. Brown (University of Leeds and Photopharmica Ltd, Leeds, United Kingdom)
Porphyrins, Phthalocyanines and PDT - The Last 50 Years

09:30 to 10:00
Coffee break

S02 Sandwich Tetrapyrrole Rare Earth Functional Molecular Materials

Room 1

Chaired by: Yongzhong Bian, Yulia Gorbunova and Jianzhuang Jiang

10:00 to 10:20

Marcel Bouvet (Univ Bourgogne Franche-Comté, Dijon, France), Jean-Moïse Suisse

Rare Earth Phthalocyanines: How their Radical Nature Allows for a Versatile Behavior Towards Polluting Gases

10:20 to 10:40

Yanli Chen (College of Science, China University of Petroleum (East China), Qingdao, China)

Controlled Aggregation Structure and Improved Performance for Stable Ambipolar Organic Field-Effect Transistor Based on An Asymmetrically Substituted Tris(phthalocyaninato) Europium Semiconductor

10:40 to 11:00

Takamitsu Fukuda (Department of Chemistry, Graduate School of Science, Osaka University, Toyonaka, Japan)

Observation of Low Energy π-π* Transitions in Oxidized Forms of Multi-Layered Phthalocyanines

11:00 to 11:20

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

The Octupolarization Hidden in Porphyrin/Phthalocyanine Skeletons: Theoretical Comprehension to the Second-order Nonlinear Optical (NLO) Properties

11:20 to 11:40

Kentaro Tashiro (International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Japan)

Ligand Rotational Motions of Metal Bisporphyrinate Double-Decker Complexes Revisited with C_{60}

11:40 to 12:00

Larisa Tomilova (Department of Chemistry, Moscow, Russia), Ekaterina Tarakanova, Pavel Tarakanov, Victor Pushkarev

Tetradiazepinoporphyrazine-based sandwich-type rare earth complexes

12:00 to 12:20

Kang Wang (Beijing Key Laboratory for Science and Application of Functional Molecular and Crystalline Materials, Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Yuehong Zhang, Juwon Oh, Chao Chen, Wei Cao, Kyu Hyung Park, Dongho Kim, Jianzhuang Jiang

Unprecedented Heteroleptic Tetrapyrrole-fused Dimeric and Trimeric Skeletons

TUESDAY

S06 Functionalization of Porphyrins

Room 2

Chaired by: Norbert Jux and Christian Brueckner

10:00 to 10:20

Dorota Gryko (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland)

Porphyrins as photocatalysts for visible-light induced selective functionalizations of aldehydes

10:20 to 10:40

Franz-Peter Montforts (Instititute of Organic and Analytical Chemistry, University of Bremen, Bremen, Germany)

Functionalization of Naturally Occurring Tetrapyrroles - a Valuable Tool for Partial Synthesis of Artificial and Natural Porphyrinoids

10:40 to 11:00

Romain Ruppert (Institut de Chimie, UMR CNRS 7177, Université de Strasbourg, Strasbourg, France)

Electronic and Magnetic Interactions between Porphyrins

11:00 to 11:20

Victor Nemykin (Department of Chemistry & Biochemistry, University of Minnesota Duluth, Duluth, USA), Yuriy Zatsikha, Yuriy Kovtun, Kullapa Chanawanno, Christopher Ziegler

Synthetic strategies for preparation of ferrocene-containing BODIPYs and azaBODIPYs by core modification reactions

11:20 to 11:40

Hiroshi Shinokubo (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan)

Functionalization of an Antiaromatic Porphyrinoid Norcorrole Ni(II) Complex

11:40 to 12:00

Chi Kwong (Chris) Chang (Chemistry, Academia Sinica, Taipei, Taiwan) Chiranjeevulu Kashi, Chen-Yu Yeh

Synthesis of the Landmark Octafluoroporphyrin

12:00 to 12:20

Maxwell Crossley (School of Chemistry, The University of Sydney, Australia), Sutharsiny Indusegaram, Victor Akpe

Silicon Porphyrins - New Aspects of Chemistry and Photophysics

S14 Porphyrin- and Phthalocyanine-based Nanomaterials for Energy Conversion, Storage and Catalysis

Room 3

Chaired by: Yujiang Song

10:00 to 10:20

Feng Bai (Key Laboratory for Special Functional Materials of the Ministry of Education, Henan University, Kaifeng, China), Yong Zhong, Jiefei Wang, Yanqiu Liu, Na Zhang

Controlled Self-assembly of Porphyrin and Applications

10:20 to 10:40

Stephane Campidelli (CEA Saclay, Gif sur Yvette, France), Ismail Hijazi, Tiphaine Bourgeteau, Renaud Cornut, Adina Morozan, Bruno Jousselme, Stephane Campidelli

Carbon Nanotube-Templated Synthesis of Covalent Porphyrin Network for Oxygen Reduction Reaction

10:40 to 11:00

Gema de la Torre (Department of Organic Chemistry, Madrid, Spain), Ettore Fazio, Maxence Urbani, Tomas Torres

New multicomponent, phthalocyanine-based ensembles for energy conversion schemes

11:00 to 11:20

Sang Hoon Joo (School of Energy and Chemical Engineering, UNIST, Ulsan, Korea)

Macrocyclic Compounds-Driven Highly Active Electrocatalysts for Oxygen Reduction Reaction

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

Bio-inspired Heme Model Compounds as Electrocatalysts for Oxygen Reduction Reaction in Polymer Electrolyte Fuel Cells

11:40 to 12:00

Shengqian Ma (Department of Chemistry, University of South Florida, Tampa, USA)

Metal–metalloporphyrin frameworks: from Design to Applications

12:00 to 12:20

Lianqing Chen (College of Chemistry and Material Science, South-Central University for Nationalities, Wuhan, China)

Preparation and enhancing photocatalytic performance of hollow Titania boxes with porphyrin composite materials

S22 Antimicrobial Photodynamic Therapy

Room 5

Chaired by: Kristjan Plaetzer and Reza Ghiladi

10:00 to 10:20

Reza Ghiladi (Department of Chemistry, North Carolina State University, Raleigh, USA), Bradley Carpenter, Sarah Stanley

Photosensitizer-Modified Cellulose and Polyacrylonitrile Fibers as Anti-infective Materials

10:20 to 10:40

Nicole Snyder (Department of Chemistry, Davidson College, Davidson, USA), Joshua Ruppel, Taylor Adams, Dennis Akrobetu, Rachel Barkley, Morgan Burch, Gabriel Cambronero, Shamus Cooper, David Dennis, Ryan Dolewski, Peter Garrett, Kevin Graepel, Hilary Langat, George Mukosera, Rachel Rothbarth, Raymond Wiggins, Erin Xu

The Synthesis of Carbohydrate Porphyrin, Bacteriochlorin and Phthalocyanine Conjugates for Photodynamic Therapy

10:40 to 11:00

Zhuo Chen (Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou, China), Linsen Li, Yaxin Zhang, Jincan Chen, Ping Hu, Mingdong Huang

Zinc phthalocyanines in photodynamic antimicrobial chemotherapy

11:00 to 11:20

Vincent Sol (University of Limoges, Laboratoire de Chimie des Substances Naturelles, Limoges, France)

Photosensitizers as efficient agents for photo-antibacterial surfaces

11:20 to 11:40

Dmitry Berezin (Organic Chemistry Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Andrey Kustov, Evgeniy Venediktov, Vladimir Makarov, Sergey Kruchin, Dmitry Belykh

Photosensitizers for Antibacterial PDT: Synthesis, Singlet Oxygen Generation, Hydrophilicity Control and Toxicity Assays

11:40 to 12:00

Kristjan Plaetzer (Laboratory of Photodynamic Inactivation of Microorganisms, University of Salzburg, Salzburg, Austria), Nicole Tortik, Michael Glueck, Andre Graeler, Tim Maisch, Andreas Spaeth

Photodynamic decontamination as tool for increasing food safety

S32 High-Valent Metal Oxo Macrocyclic Complexes and their Precursors (Part 1)

Room 4

Chaired by: Wonwoo Nam and Alexander Sorokin

10:00 to 10:20

Wonwoo Nam (Department of Chemistry and Nano Science, Seoul, Korea)

Biomimetic Metal-Oxygen Intermediates in Dioxygen Activation Chemistry

10:20 to 10:40

Takehiro Ohta (Picobiology Institute, Graduate School of Life Science, University of Hyogo, Sayo-gun, Japan), Perumandla Nagaraju, Yoshinori Naruta

2nd Coordination Sphere Controlled Oxygen Reduction Reaction Catalyzed by a Bio-inspired Iron Porphyrin

10:40 to 11:00

Pavel Afanasiev (CNRS, Villeurbanne, France)

High-valent iron phthalocyanine, porphyrin and porphyrazine μ - dimers: the insights from spectroscopies and DFT calculations

11:00 to 11:20

Guochuan Yin (School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan, China)

Oxidative Relationships of High-valent Metal Oxo and Hydroxo and Their Implications

11:20 to 11:40

Shunichi Fukuzumi (Ewha Womans University, Seoul, Korea), Shoko Aoi, Kentaro Mase, Kei Ohkubo

Electrocatalytic and Photocatalytic Reduction of CO_2 to CO with a Cobalt Chlorin Complex Adsorbed on Multi-Walled Carbon Nanotubes

11:40 to 12:00

Wangyang Lu (College of Materials and Textiles, Zhejiang Sci-Tech University, Hangzhou, China), Nan Li, Tiefeng Xu, Zhenan Wang, Zhen Xu, Wangyang Lu, Dongjing Ni, Xiyi Wang, Wenxing Chen

Bioinspired Catalytic Generation of High-valent Cobalt-oxo Species by the Axially Coordinated CoPc on Pyridine-functionalized MWCNTs

TUESDAY

S37 Heme Proteins and Analogues (Part 2)

Room 6

Chaired by: John Dawson

10:00 to 10:20
Emma Raven (Department of Chemistry, Leicester, United Kingdom)
Heme-dependent regulation of circadian rhythm

10:20 to 10:40
Jiangyun Wang (Institute of Biophysics, CAS, Beijing, China)
Metalloprotein Design Using Genetic Code Expansion

10:40 to 11:00
Paul Champion (Physics Department, Northeastern University, Boston, USA)
Vibrational Coherence and Kinetic Studies of Heme Proteins

11:00 to 11:20
W. Robert Scheidt (Department of Chemistry, Notre Dame, USA), Nicole C. Branagan, J. Timoty Sage, Laura Brothers, Munendra Yadav, D. Scott Bohle
Vibrational Spectroscopy of Synthetic Malarial Pigment

11:20 to 11:40
Paola Turano (CERM & Department of Chemistry, Sesto Fiorentino, Italy)
Heme proteins interactome: an NMR view

11:40 to 12:00
Yoshitsugu Shiro (RIKEN SPring-8 Center, Sayo, Japan)
Molecular Mechanism of NO Reduction by Bacterial Nitric Oxide Reductases

Tuesday, 5 July 2016, Afternoon

S03 Advances in the Synthesis and Properties of Phthalocyanines and Related Systems (Part 1)

Room 1

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

13:30 to 13:50

Dennis Kee Pui Ng (Department of Chemistry, The Chinese University of Hong Kong, Hong Kong, China), Sun Y. S. Chow, Roy C. H. Wong, Shuirui Zhao, Pui-Chi Lo

Self-Quenched Phthalocyanines as Smart Photosensitizers for Photodynamic Therapy

13:50 to 14:10

Zhen Shen (School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China), Zhikuan Zhou, Fan Wu, Yi Chang

Artificial Porphyrinoids Embedded with Functional Building Blocks

14:10 to 14:30

M. Salome Rodriguez-Morgade (Departamento de Quimica Organica, Universidad Autonoma de Madrid, Madrid, Spain), Javier Fernández Ariza, Diana Paola Medina, Esmeralda Caballero, Maxence Urbani, Tomas Torres

New Photosensitizers Based on Porphyrazines

14:30 to 14:50

Cornelus van Nostrum (Department of Pharmaceutics, Utrecht University, Utrecht, Netherlands), Jos Wennink, Wim Hennink

Polymeric Micelles' Application in Photodynamic Therapy

14:50 to 15:10

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

Conjugates of Phthalocyanines with Nanomaterials for Electrode Modification

15:10 to 15:30

Janarthanan Jayawickramarajah (Department of Chemistry, Tulane University, New Orleans, USA), Xiao Zhou, Mengyuan Zhu

Multi-Chromophoric Architectures in Water: Constructed *via* Host-Guest Interactions

15:30 to 16:00

Coffee break

S07 NIR-Responsive Porphyrinoids: Synthesis, Properties, and Applications

Room 2

Chaired by: Jishan Wu, Yoshihiro Matano and Hiroko Yamada

13:30 to 13:50

Martin Bröring (Institut für Anorganische und Analytische Chemie, Technische Universität Braunschweig, Braunschweig, Germany), Peter Schweyen, Richard Wicht

Isocorroles and Isoporphyrins – NIR responsive dyes with broken conjugation

13:50 to 14:10

Tetsuo Okujima (Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan)

Synthesis of Cyclo[n]pyrroles with Intense NIR Absorptions

14:10 to 14:30

Christian Brückner (University of Connecticut, Storrs, USA)

Synthesis of NIR Absorbing Porphyrinoids Containing Non-pyrrolic Building Blocks by Conversion of Porphyrins

14:30 to 14:50

Jishan Wu (Department of Chemistry, National University of Singapore, Singapore, Singapore)

Porphyrin and BODIPY Based Diradicaloids

14:50 to 15:10

Hideki Yorimitsu (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Kenichi Kato, Keisuke Fujimoto, Norihito Fukui, Atsuhiro Osuka

Triply Diarylamine-, Diarylmethane-, or Diarylborane-fused π-Extended Porphyrins

15:10 to 15:30

Lechoslaw Latos-Grażyński (Department of Chemistry, Wroclaw, Poland)

Aceneporphyrinoids: Synthesis and Transformations

15:30 to 16:00

Coffee break

S12 Nonlinear Optical Phenomena in Porphyrins and Phthalocyanines

Room 4

Chaired by: Angela Sastre-Santos and Fernando Fernandez-Lazaro

13:30 to 13:50

Yulia G. Gorbunova (Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia), Antonina D. Grishina, Anatoly V. Vannikov, Aslan Yu. Tsivadze

The Crucial Role of Self-Assembling in Nonlinear Optical Properties of Substituted Phthalocyanines

13:50 to 14:10

Ferdinand Grozema (Department of Chemical Engineering, Delft University of Technology, Delft, Netherlands)

Exciton diffusion, singlet fission and photochemical upconversion in aromatic molecular crystals

14:10 to 14:30

Ismael Lopez-Duarte (Department of Organic Chemistry, Autonoma University of Madrid (UAM), Madrid, Spain), Luis Carlos Asensio, Tomas Torres

Design and Synthesis of Phthalocyanine and Porphyrin-based Conjugated π-Systems for Nonlinear Optical Imaging

S34 Porphyrinoids for Dye-Sensitized and Bulk Heterojunction Organic Solar Cells (Part 2)

Room 4

Chaired by: Wouter Maes

14:30 to 14:50

Akihiko Fujii (Graduate School of Engineering, Osaka University, Suita, Japan), Yo Shimizu, Masanori Ozaki

Solution-Processable Bulk-Heterojunction Solar Cells Utilizing Non-Peripherally Alkyl-Substituted Phthalocyanine-Tetrabenzoporphyrin Hybrid Macrocycles

14:50 to 15:10

Yutaka Matsuo (Department of Chemistry, School of Science, The University of Tokyo, Tokyo, Japan)

Magnesium Complex of Diporphyrins with Long-Wavelength Light Absorption for Organic Solar Cells

15:10 to 15:30

Chen-Hsiung Hung (Institute of Chemistry, Academia Sinica, Taipei, Taiwan)

Oxasmaragdyrins as High-Efficiency Hole Transporting Materials for Perovskite Solar Cells

15:30 to 16:00

Coffee break

S15 Chiral Aspects of Porphyrin Supramolecular Chemistry

Room 3

Chaired by: Robert Purrello and Nina Berova

13:30 to 13:50

Victor Borovkov (Tallinn University of Technology, Faculty of Science, Department of Chemistry, Chair of Green Chemistry, Tallinn, Estonia), Nicholas Gathergood

Application of Octaethylporphyrin Structural Motif for Supramolecular Chirogenesis

13:50 to 14:10

Chuanjiang Hu (Soochow University, Suzhou, China), Li Li, Congcong Zhuo

Application of Amide-linked Bisporphyrins and Trisporphyrins in Chirality Transfer

14:10 to 14:30

Minghua Liu (Institute of Chemistry, CAS, Beijing, China), Li Zhang

Supramolecular Chirality in the TPPS Assemblies

14:30 to 14:50

Nathalie Solladie (Laboratoire de Chimie de Coordination, CNRS, Toulouse, France)

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

14:50 to 15:10

Eugen Stulz (School of Chemistry, University of Southampton, Southampton, United Kingdom), Iwona Mames

Chrial porphyrin assemblies using DNA as scaffold

15:30 to 16:00

Coffee break

S23 Hydrosoluble Porphyrin Derivatives for Medical/Biological Applications

Room 5

Chaired by: M. Graca H. Vicente and Claude P. Gros

13:30 to 13:50

Kevin M. Smith (Department of Chemistry, Louisiana State University, Baton Rouge, USA), R. G. Waruna Jinadasa, Hui Chen, Lijuan Jiao, Zehua Zhou, Alex L. Nguyen, Frank R. Fronczek, Graca Vicente

PDT Sensitizers Derived from Chlorin-e_6

13:50 to 14:10

Bernard Boitrel (UMR CNR 6226 Institut des Sciences Chimiques de Rennes, Rennes, France), Stéphane Le Gac, Victoria Ndoyom

Coordination of ^{213}Bi into porphyrins: the filiation elements are important as well

14:10 to 14:30

Brigitte Guérin (Department of Nuclear Medicine and Radiobiology, Faculty of Medicine and Health Sciences/Université de Sherbrooke, Sherbrooke, Canada), Samira Osati, Michel Paquette, Simon Beaudoin, Hasrat Ali, Jeffrey V. Leyton, Johan E. van Lier

BODIPY-Estradiol Conjugates as Multi-Modality Tumor Imaging Agents

14:30 to 14:50

Hong Wang (Chemistry and Biochemistry, Miami University, Oxford, USA), R. G. Waruna Jinadasa, Siddhartha Kumar, Yuanyuan Fang, Xiaoqin Jiang, Yi Hu, Karl Kadish

Functionalization of π-Extended Porphyrins

14:50 to 15:10

Wei Liu (State Key Laboratory of Crystal Materials, Jinan, China), Liqiang Luan, Wenjuan Fang, Xi Chen, Yuxing Ni

The Impact of Substituents on the Physicochemical and Photodynamic Therapy Properties of Phthalocyanine-cRGD Conjugates

15:10 to 15:30

Il Yoon (Photodynamic Therapy Institute and School of Nanoscience and Engineering, Gimhae, Korea), Eun Seon Kang, Young Key Shim

Water-Soluble Ionic Liquid Type Photosensitizers for Photodynamic Therapy

15:30 to 16:00

Coffee break

S38 Resonance Raman and EPR probes of the Crucial Intermediates Encountered in the Catalytic Cycles of Heme Enzymes

Room 6

Chaired by: James Kincaid and Anabella Ivancich

13:30 to 13:50

Cancelled - Takashi Ogura (Graduate School of Life Science, University of Hyogo, Sayo, Japan), Shoko Watanabe, Sachiko Yanagisawa, Satoru Nakashima, Kyoko Shinzawa-Itoh, Shinya Yoshikawa

Ultraviolet Resonance Raman Spectroscopic Study on Cytochrome *c* Oxidase P Reaction Intermediate

13:50 to 14:10

Denis Rousseau (Department of Physiology and Biophysics, Albert Einstein College of Medicine, Bronx, USA), Masahide Hikita, Izumi Ishigami, Shibom Basu, Chelsie Conrad, Garret Nelson, Chufeng Li, Meng Liang, Mark Hunter, Petra Fromme, Raimund Fromme, Syun-Ru Yeh

Serial Femtosecond X-Ray Crystallography of Oxidized Bovine Cytochrome c Oxidase

14:10 to 14:30

Thomas Poulos (UCI, Irvine, USA)

Kinetic, Structural and Computational Approaches to Peroxidase Catalysis

14:30 to 14:50

Ann English (Chemistry and Biochemistry, Concordia University, Montreal, Canada), Meena Kathiresan, Anabella Ivancich

Multiple Cycles of Heme-mediated Radical Transfer in Cytochrome *c* Peroxidase: Insights from LC-MS/MS and EPR Analysis

14:50 to 15:10

David Goodin (Department of Chemistry, University of California, Davis, USA)

Effect of Heme Oxidation and Coordination State on the Conformational of P450cam Reaction Intermediates

15:10 to 15:30

Denis Proshlyakov (Michigan State University, East Lansing, USA), Christopher John, Yegor Proshlyakov, Dawei Chen, Zipin Zhang, John McCracken, Greg Swain, Robert Hausinger

Oxygenic ligands in the catalysis by highly oxidized species of heme and non-heme iron enzymes

15:30 to 16:00

Coffee break

Plenary Lecture

Room 1

Chaired by: Kevin Smith

16:00 to 17:00

Teodor Silviu Balaban (Aix Marseille University, CNRS UMR 7313, Centrale Marseille, Institut des Sciences Moléculaires de Marseille, Chirosciences, Marseille, France)

Self-Assembling Tetrapyrroles

Wednesday, 6 July 2016, Morning

Award Lecture
Lifetime Achievement Award for use of Porphyrinoids in Medicine and Materials

Room 1

Chaired by: Zhongping Ou

08:30 to 09:30
Naisheng Chen (Department of Chemistry, Fuzhou, China)
Some Thoughts on the Study of Porphyrins and Phthalocyanines

09:30 to 10:00
Coffee break

SPP / JPP Award Lectures

Room 1

Chaired by: Kevin Smith

10:00 to 10:30
Lijuan Jiao (College of Chemistry and Materials Science, Anhui Normal University, China)
Boron Dipyrromethenes and Related Systems: Synthesis, Reactivity and Property

Chaired by: Atsuhiro Osuka

10:30 to 11:00
Soji Shimizu (Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan)
Design and Creation of Novel Porphyrinoids Based on the Structure-Property Relationship

Chaired by: Tomás Torres

11:00 to 11:30
Giovanni Bottari (Departamento de Química Orgánica, Madrid, Spain)
Phthalocyanine-based multifunctional ensembles

Chaired by: Roberto Paolesse

11:30 to 12:00
Alessandro D'Urso (Department of Chemical Science, University of Catania, Catania, Italy)
Porphyrin Supramolecular Systems in Aqueous Solution: Chiroptical Probes, Multicomponent Arrays and Molecular Switches

Thursday, 7 July 2016, Morning

Plenary Lecture

Room 1

Chaired by: Francis D'Souza

08:30 to 09:30

Michael Therien (Department of Chemistry, Duke University, Durham, USA), Nicholas Polizzi, Ting Jiang, David Beratan

U-Turn Electron Transfers in Chemistry and Biology

09:30 to 10:00

Coffee break

S03 Advances in the Synthesis and Properties of Phthalocyanines and Related Systems (Part 2)

Room 1

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

10:00 to 10:20

Andreas Hirsch (Department of Chemistry, Germany, Germany)

Synthesis of Fullerene-Porphyrine Hybrids

10:20 to 10:40

Christopher Ziegler (Department of Chemistry, University of Akron, Akron, USA)

Templating Isoindoline Units to Make Chelates: Constructing Half of a Porphyrazine

10:40 to 11:00

Fernando Fernández-Lázaro (Instituto de Bioingeniería, Universidad Miguel Hernández, Elche, Spain), Vicente M. Blas-Ferrando, Jorge Follana-Berná, Javier Ortiz, Ana M. Gutiérrez, Ángela Sastre-Santos

Parallel- *versus* Perpendicular-Arranged Phthalocyanine-Perylenediimide Conjugated Systems

11:00 to 11:20

Yongzhong Bian (Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Mengliang Zhu, Dongli Zhang, Wenxin Lu, Jinghui Zhang

FRET-based Ratiometric Detection of Heavy Metal Ions

11:20 to 11:40

Mikhail Islyaikin (International Research Laboratory on Nanomaterials, Research Institute of Macroheterocycles, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Olga Trukhina, Oskar Koifman, Tomas Torres

Synthesis, structure particularities and properties of hemihexaphyrazines and their metal complexes

11:40 to 12:00

Andres de la Escosura (Organic Chemistry Department, Madrid, Spain), Eduardo Anaya-Plaza, Francesca Setaro, Eveline van de Winckel, Joona Mikkila, Mauri A. Kostiainen, Tomas Torres

Protein- and Sugar-Based Phthalocyanine Biohybrids

S04 Porphycenes

Room 2

Chaired by: Santi Nonell and Jacek Waluk

10:00 to 10:20

Piotr Fita (Institute of Experimental Physics, Faculty of Physics, University of Warsaw, Warsaw, Poland), Piotr Ciacka, Arkadiusz Listkowski, Czeslaw Radzewicz, Jacek Waluk

Dominant role of tunneling in tautomerization of porphycenes

10:20 to 10:40

Daiki Kuzuhara (Graduate School of Materials Science, Nara Institute of Science and Technology, Ikoma, Japan), Takuya Okabe, Mika Sakaguchi, Naoki Aratani

Functionalized Porphycenes for Organic Electronics

10:40 to 11:00

Arkadiusz Listkowski (Faculty of Mathematics and Natural Sciences, College of Science, Cardinal Stefan Wyszyñski University, Warsaw, Poland), Natalia Masiera, Pawel Jêdrzejewski, Piotr Pawlak, Jacek Waluk

Custom design of novel porphycenes

11:00 to 11:20

Koji Oohora (Department of Applied Chemistry, Frontier Research Base for Global Young Researchers, JST-PRESTO, Graduate School of Engineering, Osaka University, Suita, Japan), Ayumu Ogawa, Yasunobu Tanaka, Jun-ya Hasegawa, Takashi Hayashi

Dibenzoporphycene with Annulated Benzene Rings at Two Ethylene Bridges of the Porphycene Framework

11:20 to 11:40

Pradeepta Panda (School of Chemistry, University of Hyderabad, Hyderabad, India), Tridib Sarma, Anup Rana, Narendra Nath Pati, Sathish Kumar Bijigiri

Emergence of Porphycene

S16 Covalent and Noncovalent Assembly of Porphyrins on DNA

Room 3

Chaired by: Eugen Stulz and Alessandro D'Urso

10:00 to 10:20

Nina Berova (Department of Chemistry, Columbia University, New York, USA), Ana G. Petrovich

Insights into Sensitivity and Distinctive Chiroptical Response of Arylporphyrins in Molecular and Supramolecular Systems

10:20 to 10:40

Seog K. Kim (Department of Chemistry, Gyeongsan City, Gyeong-buk, Korea), Yoon Jung Jang

Z-form Poly[d(A-T)$_2$] Induced by a Cationic Porphyrin

10:40 to 11:00

Karl Börjesson (University of Gothenburg, Gothenburg, Sweden), Jerker Mårtensson, Bengt Nordén, Marcus Wilhelmsson, Tom Brown, Bo Albinsson

DNA Constructs with Multifunctional Porphyrin Units Covalently Attached

11:00 to 11:20

Roberto Purrello (Department of Chemical Sciences, Catania, Italy), Alessandro D'Urso, Sara Nardis, Giuseppe Pomarico, Maria Elena Fragala, Roberto Paolesse

Corroles-Polynucleotides interactions

11:20 to 11:40

Ayşe Gül Gürek (Gebze Technical University, Kocaeli, Turkey), Duygu Aydin Tekdas, Veysel Koc, Aytac Cavus, Devrim Atilla, Eugeny Ermilov, Fabienne Dumoulin, Vefa Ahsen

Phthalocyanine Complexes as Theranostic Agents for MRI and PDT

11:40 to 12:00

Juan Chen (University Health Network, Univerisity of Toronto, Toronto, Canada), Juan Chen, Liyang Cui, Nidal Muhanna, Cheng Jin, Gang Zheng

A PEG-free Biomimetic Porphyrin Nanoplatform for Personalized Cancer Theranostics

S24 Phthalocyanine Materials for PDT

Room 5

Chaired by: Dennis Ng, Pui-Chi Lo and Jinping Xue

10:00 to 10:20

Pui-Chi Lo (City University of Hong Kong, Hong Kong, China)

"Smart" Photosensitizers for Targeted Photodynamic Therapy

10:20 to 10:40

Fabienne Dumoulin (Chemistry Dpt, Gebze Technical University, Gebze, Kocaeli, Turkey), Serkan Alpugan

Tumor-site activation in photodynamic therapy: An alternative to targeting strategies

10:40 to 11:00

Jonathan Lovell (Department of Biomedical Engineering, University at Buffalo, Buffalo, USA)

Porphyrin and Phthalocyanine Theranostic Agents

11:00 to 11:20

Petr Zimčík (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Hradec Kralove, Czech Republic), Veronika Novakova, Miloslav Machacek, Jan Kollar, Antonin Cidlina

Water Soluble Non-aggregating Phthalocyanines for Photodynamic Therapy

11:20 to 11:40

João Tomé (Department of Chemistry, Aveiro, Portugal), Patricia Pereira, Leandro Lourenço, Nutalapati Venkatramaiah, Rosa Fernandes

Amphiphilic Phthalocyanines for Photomedicine

11:40 to 12:00

Mingdong Huang (Department of Chemistry, Fuzhou, China)

Albumin-embedding and tumor targeting of phthalocyanine photosensitizers

S32 High-Valent Metal Oxo Macrocyclic Complexes and their Precursors (Part 2)

Room 4

Chaired by: Wonwoo Nam and Alexander Sorokin

10:00 to 10:20
Kallol Ray (Department of Chemistry, Humboldt Universität zu Berlin, Berlin, Germany)
High Valent Metal Oxo Cores in Chemistry and Biology

10:20 to 10:40
Sayam Sen Gupta (CSIR-National Chemical Laboratory, Pune, India)
The Reactivity Landscape of the Elusive $Fe^{V}(O)$

10:40 to 11:00
Shuang Gao (Dalian Institute of Chemical Physics, CAS, Dalian, China)
Design and application of porphyrin-inspired ligands in asymmetric epoxidaion of olefins

11:00 to 11:20
David Harris (Department of Chemistry, Northwestern University, Evanston, USA), John Anderson, Audrey Gallagher, Jung Yoon Lee, Lujia Liu, Margaret Kelty, Jesse Park
Isolation and Studies of Reactive Metalloporphyrin Species in Metal-Organic Frameworks

11:20 to 11:40
Michito Yoshizawa (Chemical Resources Laboratory, Tokyo Institute of Technology, Yokohama, Japan)
Efficient Catalytic Epoxidation by Mn-Porphyrins within Polyaromatic Capsules

11:40 to 12:00
Qizhi Ren (School of Chemistry and Chemical Engineering, Shanghai Jiaotong University, Shanghai, China), Kaifang Sun, Cheng Cai, Lintong Guo
Porphyrin-Functional Material Systems as Efficient Recyclable Biomimetic Catalysts for H_2O_2 Oxidation

S42 Natural Porphyrinoid Pigments: Synthesis, Structure and Biological Function

Room 6

Chaired by: Franz-Peter Montforts and Bernhard Kräutler

10:00 to 10:20

Norbert Jux (Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany), Kathrin Eder, Helen Hölzel

Novel pyropheophorbide a conjugates

10:20 to 10:40

Hitoshi Tamiaki (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Meiyun Xu, Shogo Matsubara, Yusuke Kinoshita

Semisynthesis of Chlorophyll-*c* Analogs by Oxidative Modification of Naturally Occurring Chlorophyll-*a*

10:40 to 11:00

Saburo Neya (Chiba University, Chiba City, Japan), Tomoki Yoneda, Tyuji Hoshino, Masaaki Suzuki

Practical synthesis of symmetric isomers of diacetyl-, hemato-, and protoporphyrins

11:00 to 11:20

Bernard Golding (School of Chemistry, Newcastle upon Tyne, United Kingdom)

Using All the Isotopes of Hydrogen to Probe Mechanisms of Coenzyme B_{12}-dependent Radical Enzymes

11:20 to 11:40

Stuart Ferguson (University of Oxford, Oxford, United Kingdom), Shilpa Bali, Martin Warren

The route *via* siroheme for making the d1 heme of the periplasmic cytochrome-type nitrite reductase

11:40 to 12:00

Andrew D. Lawrence (School of Biosciences, University of Kent, Canterbury, United Kingdom) Martin J. Warren

Biosynthesis of corrins

Thursday, 7 July 2016, Afternoon

S03 Advances in the Synthesis and Properties of Phthalocyanines and Related Systems (Part 3)

Room 1

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

13:30 to 13:50

Fernando Langa (Institute for Nanoscience and Molecular Materials, University of Castilla-La Mancha, Toledo, Spain), Susana Arrechea, Pilar de la Cruz, Gabriela Moran

New Porphyrins for Solar Cells

13:50 to 14:10

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

Functionalized Fluorinated Phthalocyanines

14:10 to 14:30

Dan Pantos (Department of Chemistry, University of Bath, Bath, United Kingdom), Koujiro Tambara, Takayuki Tanaka, Tiberiu Gianga

The organisation of porphyrin-and phthalocyanine-functionalised naphthalenediimides into discrete, defined supramolecular architectures

14:30 to 14:50

Jianxin Song (College of Chemistry and Chemical Engineering, Changsha, China), Yunmei Liu, Lei Xu

Construction of Multi-poprhyrin Arrays

14:50 to 15:10

Wouter Maes (Design & Synthesis of Organic Semiconductors (DSOS), Institute for Materials Research (IMO-IMOMEC), Hasselt University, Diepenbeek, Belgium), Mathias Kelchtermans, Jasper Deckers, Jurgen Kesters, Laurence Lutsen, Dirk Vanderzande, Jean Manca

Push-Pull Porphyrins with Varying Donor Units for Bulk Heterojunction Organic Photovoltaics and Photodetectors

15:10 to 15:30

Di Wu (College of Chemistry, Sichuan University, Chengdu, China)

Discovering Highly Efficient DSSC Sensitizers Based on the Calculation of the First Transition Dipole Moment

15:30 to 16:00

Coffee break

S09 BODIPY Dyes: Past, Present and Future

Room 2

Chaired by: Kevin M Smith and Erhong Hao

13:30 to 13:50

Claude Gros (Université de Bourgogne Franche-Comté, ICMUB-P2DA (UMR 6302), Dijon Cedex, France), Léo Bucher, Nicolas Desbois, Pierre D. Harvey

BODIPY-porphyrin and corrole dyads and polyads. Synthesis and antenna effects

13:50 to 14:10

Ravikanth Mangalampalli (Department of Chemistry, IIT-Bombay, Mumbai, India)

Fluorescent Boron Complexes of Dipyrrins and Expanded Porphyrinoids

14:10 to 14:30

Graca Vicente (Department of Chemistry, Baton Rouge, USA)

Functionalization of the BODIPY platform

14:30 to 14:50

Penelope J. Brothers (University of Auckland, Auckland, New Zealand), Bowen Liu, Nina Novikova, David C. Ware, Bridget L. Stocker, Mattie S. M. Timmer, Cather M. Simpson

New Chemistry of O-BODIPY: Boron-oxygen-saccharide Conjugates

14:50 to 15:10

Erhong Hao (College of Chemistry and Materials Science, Anhui Normal University, Wuhu, China), Changjiang Yu, Wanle Sheng, Jun Wang, Xin Zhou

Oxidative Coupling of BODIPYs for NIR dyes

15:10 to 15:30

Kazuya Kikuchi (Graduate School of Engineering, Osaka University, Suita, Japan), Hiroki Maeda, Toshiyuki Kowada, Junichi Kikuta, Masayuki Furuya, Shin Mizukami, Masaru Ishii

Real-time Intravital Imaging of pH Variation Associated with Osteoclast Activity Using BODIPY Based Two Photon Excitation Probes

15:30 to 16:00

Coffee break

S17 Porphyrin-Modified Hard-Matter Nanoscale Objects for Electro-Optics and Energy Conversion

Room 3

Chaired by: Mike Therien

13:30 to 13:50

Dirk Guldi (Department of Chemistry and Pharmacy, Erlangen, Germany)

Integrating Porphyrins / Phthalocyanines and Nanocarbons into Novel Optoelectronic Materials

13:50 to 14:10

Dario Bassani (Institute of Molecular Sciences, CNRS UMR5255 University of Bordeaux, Talence, France)

Conjugated supramolecular materials for electro-optical applications

14:10 to 14:30

Francis D'Souza (Department of Chemistry, University of North Texas, Denton, USA), Gary N. Lim, Chandra B. KC

Graphene Decorated Biomimetic Donor-Acceptor Conjugates for Modulating Electron Transfer Dynamics

14:30 to 14:50

Hui-Lei Hou (University of Erlangen-Nürnberg, Institute of Organic Chemistry II, Erlangen, Germany), Andreas Hirsch

Synthesis of Edge- and Basal Plane-type NiTPP-Graphene with Directly Covalent C-C Bond *via* Diazonium Reation

14:50 to 15:10

Pravas Deria (Chemistry & Biochemistry, Southern Illinois University, Carbondale, USA), Mashni Jamil, Jack Pertile

Porphyrin based Metal-Organic Frameworks (MOFs): New Materials for Electro-optics and Energy Conversion

15:10 to 15:30

Hiroshi Imahori (Institute for Integrated Cell-Material Sciences (WPI-iCeMS), Kyoto University, Kyoto, Japan)

Modulating Bridge in Donor-Bridge-Acceptor Systems for Photoinduced Charge Separation and Solar Energy Conversion

15:30 to 16:00

Coffee break

S26 Targeting in PDT: the Different Strategies

Room 5

Chaired by: Céline Frochot and Fabienne Dumoulin

13:30 to 13:50

Mireille Blanchard-Desce (University Bordeaux, Talence, France)

Synergic multiporpyrin systems for combined imaging and photodynamic therapy by two-photon excitation

13:50 to 14:10

Juanjuan Chen (Fuzhou University, Fuzhou, China), Fengling Zhang, Meiru Song, Jinping Xue

The Cooperative Anticancer Manner of Zn (II) Phthalocyanine and Small Molecula targeted-based Drug Gefitinib Conjugates

14:10 to 14:30

Céline Frochot (LRGP, CNRS-Université de Lorraine, Nancy, France), Samir Acherar, Henri Azaïs, Muriel Barberi-Heyob, Serge Mordon, Sophie Pinel, Régis Vanderesse

Targeted porphyrins and nanoparticles for both detection and photodynamic therapy

14:30 to 14:50

Francesca Giuntini (School of Pharmacy and Biomolecular Sciences, Liverpool John Moores University, Liverpool, United Kingdom), Loredana Serpe, Ivana Fenoglio, Gianni Durando, Roberto Canaparo

The effect of metal on the sonodynamic activity of cationic water-soluble porphyrin complexes

14:50 to 15:10

Santi Nonell (Institut Quimic de Sarria, Universitat Ramon Llull, Barcelona, Spain), Oriol Planas, Thibault Gallavardin

Protein-Sensitiser Conjugates for Theranostic Applications

15:10 to 15:30

Véronique Rosilio (UMR CNRS 8612, University Paris-Sud, Châtenay-Malabry, France), Ali Makky, Jean-Philippe Michel, Donia Essaid, Katia Daghildjian, Su Chen, Athena Kasselouri, Philippe Maillard

Physicochemical Approach for the Assessment of Targeting Efficiency of Glycoconjugated Tetraphenylporphyrins Usable in One- and Two-photon PDT

15:30 to 16:00

Coffee break

S33 Catalytic Chemical Transformations by Metalloporphyrins
Room 4

Chaired by: Peter Zhang and Xuefeng Fu

13:30 to 13:50
Emma Gallo (Department of Chemistry, Università degli Studi di Milano, Milan, Italy), Daniela Intrieri, Daniela Maria Carminati, Lucio Toma, Stéphane Le Gac, Bernard Boitrel
'Totem' C2-Symmetrical Iron(III) Porphyrin Complexes to Stereoselectively Promote Alkene Cyclopropanation

13:50 to 14:10
Keith Woo (Chemistry Iowa State University, Ames, USA), Taiwo Dairo
Metalloporphyrin Catalyzed Carbene Transfer – Scope and Mechanistic Aspects

14:10 to 14:30
Chi-Ming Che (Department of Chemistry, The University of Hong Kong, Hong Kong, China), Annapureddy Rajasekar Reddy, Fei Hao, Kai Wu, Zhen Guo, Jinhu Wei, Cong-Ying Zhou
Metal Porphyrin-Catalyzed Alkylcarbene C-H Insertion and Cyclopropanation

14:30 to 14:50
Hongjian Lu (School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China), X. Peter Zhang
Stereoselective Radical C–H Amination *via* Co(II)-Based Metalloradical Catalysis

14:50 to 15:10
Gerard Simonneaux (Institute of Chemical Sciences of Rennes, Rennes, France), Paul Le Maux, Daniel Carrie, Soizic Chevance
Metal-Porphyrin Asymmetric Catalysis in Water

15:10 to 15:30
Tadashi Ema (Graduate School of Natural Science and Technology, Okayama University, Okayama, Japan), Chihiro Maeda
Metalloporphyrins as Catalysts for CO_2 Fixation

15:30 to 16:00
Coffee break

THURSDAY

S41 Biochemistry of Linear Tetrapyrroles

Room 6

Chaired by: Kai-Hong Zhao and Hugo Scheer

13:30 to 13:50

Noam Adir (Schulich Faculty of Chemistry, Haifa, Israel), Shira Bar Zvi, Roy Ben Harosh, Liron David, Sudeshna Ghosh, Dvir Harris, Ofir Tal, Ido Eisenberg, Nir Keren, Yossi Paltiel, Collins Nganou, Martin Mkandawire, Robert E. Blankenship

The extraordinary energy transfer capabilities of the phycobilisome

13:50 to 14:10

Min Chen (ARC centre of Excellence for Translational photosynthesis, Sydney, Australia)

The red-shifted phycobiliprotein complexes isolated from the chlorophyll *f*-containing cyanobacterium *Halomicronema hongdechloris*

14:10 to 14:30

Lars-Oliver Essen (Department of Chemistry, Philipps University, Marburg, Germany), Silke von Horsten, Katrin Anders

The secret life of phytochromes: Mechanisms of photoconversion and interactions

14:30 to 14:50

Wolfgang Gärtner (Max-Planck-Institute for Chemical Energy Conversion, Mülheim, Germany), Xiulin Xu, Ping-Ping Hu, Ya-Fang Sun, Kun Tang, Alexander Gutt, Julian Simon, Ming Zhou, Kai-Hong Zhao

Bilin-binding photoreceptors as tools in fluorescence microscopy and optogenetics applications

14:50 to 15:10

Xiaojing Yang (Department of Chemistry, University of Illinois at Chicago, Chicago, USA), Heewhan Shin, Zhong Ren

Structures and Signaling Mechanism of Modular Phytochrome Photoreceptors

15:10 to 15:30

Kai-Hong Zhao (Huazhong Agricultural University, Wuhan, China), Bao-Qing Zhao, Lu Lu, Wen-Long Ding, Dan Miao, Ming Zhou, Hugo Scheer

New far-red and near infrared fluorescent proteins derived from biliproteins

15:30 to 16:00

Coffee break

Award Lecture

Robert Burns Woodward Career Award in Porphyrin Chemistry

Room 1

Chaired by: Shunichi Fukuzumi

16:00 to 17:00

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

Synthetic Porphyrinoids Chemistry

Friday, 8 July 2016, Morning

Plenary Lecture

Room 1

Chaired by: Atsuhiro Osuka

08:30 to 09:30

Hiroyuki Furuta (Department of Chemistry and Biochemistry, Kyushu University, Fukuoka, Japan)

N-Confused Corroles: Novel Ligands for Higher Oxidation States of Metals

09:30 to 10:00

Coffee break

S03 Advances in the Synthesis and Properties of Phthalocyanines and Related Systems (Part 4)

Room 1

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

10:00 to 10:20

Athanassios Coutsolelos (Department of Chemistry, Heraklion, Greece)

Bioinspired Solar Energy Conversion Strategies Based on Hybrid Porphyrin Derivatives

10:20 to 10:40

Roberto Paolesse (Scienze e Tecnologie Chimiche, University of Rome Tor Vergata, Rome, Italy), Beatrice Berionni Berna, Sara Nardis, Manuela Stefanelli, Federica Mandoj, Giuseppe Pomarico, Daniel O. Cicero, Frank R. Fronczek, Kevin M. Smith

Corroles with annulated aromatic rings

10:40 to 11:00

David Sánchez-García (Institut Químic de Sarrià, Barcelona, Spain), Gonzalo Anguera, Brice Kauffmann, José I. Borrell, Salvador Borrós

Quaterpyrrole and Sexipyrrole: Extended Bipyrroles for Expanded Porphyrins?

11:00 to 11:20

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

Carbonization of Self-assembled Porphyrin as Highly Efficient Electrocatalysts toward Oxygen Reduction Reaction

11:20 to 11:40

Alexander Efimov (Tampere University of Technology, Tampere, Finland), Essi Sariola-Leikas, Hanna Hakola, Lijo George, Arto Hiltunen, Zafar Ahmed, Nuno Candeias, Paola Vivo, Elena Efimova

Building up colors: supramolecular arrays of peryleneimides and phthalocyanines on solid substrates

11:40 to 12:00

Ümit Işçi (Gebze Technical University, Gebze, Kocaeli, Turkey), Zeynel Sahin, Derya Topkaya, Suleyman Gokhan Colak, Mine Ince, Vefa Ahsen, Fabienne Dumoulin

Porphyrinoids-resorcinarene cavitand hybrids: A strategy to maximize interactions between phthalocyanines and fullerenes

12:00 to 12:20

Halina Abramczyk (Technical University of Lodz, Institute of Applied Radiation Chemistry, Laboratory of Laser Molecular Spectroscopy, Lodz, Poland), Beata Brozek-Pluska

Spectroscopy and Raman imaging studies of phthalocyanines in diagnostics and treatment of cancer in human tissue

S10 Novel Pyrrolic Macrocycles and Chromophores Synthesis, Properties and Applications

Room 2

Chaired by: Zhen Shen and John Mack

10:00 to 10:20

Nagao Kobayashi (Faculty of Textile Science and Technology, Shinshu University, Ueda, Japan), Taniyuki Furuyama, Takehito Sato

Investigation of the Dimerization Reaction of Phthalonitrile with Thiolate Anion and Its Application to the Synthesis of Expanded Phthalocyanines

10:20 to 10:40

Kin Shing Chan (Department of Chemistry, Chinese University of Hong Kong, NT, China), Ching Tat To, Chun Meng Tam

Group 9 Metalloporphyrin-Catalyzed Hydrogenation of Carbon-Carbon Aliphatic Bond with Water

10:40 to 11:00

Jun-Long Zhang (Chemistry Department, Peking University, Beijing, China), Ji-Yun Hu, Ying-Ying Ning

Design of NIR emissive lanthanide porpholactones

11:00 to 11:20

Hidemitsu Uno (Ehime University, Matsuyama, Japan)

Synthesis of pyrrolic compounds as a promising candidate for NIR-selective dyes

11:20 to 11:40

Knut Rurack (Chemical and Optical Sensing Division (1.9), Bundesanstalt für Materialforschung und –prüfung (BAM), Berlin, Germany)

Bright Long-wavelength Pyrrolic Dyes – Prospects for Applications in Fluorescence Sensing

11:40 to 12:00

Jianzhang Zhao (State Key Laboratory of Fine Chemicals, Dalian University of Technology, Dalian, China)

Design of BODIPY-Based Triplet Photosensitizers and Applications in Triplet-triplet Annihilation Upconversions

12:00 to 12:20

Reinhard Neier (Department of Chemistry, University of Neuchatel, Neuchatel, Switzerland), Guillaume Journot, William Maupillier, Christophe Letondor, Valeria Blangy, Helen Stoeckli-Evans, Andrea Gualandi, Lucia Cerisoli

Hydrogenation of Calix[4]pyrrole: Creating and Studying Novel Ligands from a Macrocycle Known for 130 years

S20 Porphyrinoids Based Chemical Sensors

Room 3

Chaired by: Corrado Di Natale and Marcel Bouvet

10:00 to 10:20

Marc Debliquy (University of Mons, Materials Science, Mons, Belgium), Driss Lahem, Antonio Bueno, Christophe Caucheteur, Jean-Pierre Raskin, Marcel Bouvet

Phthalocyanine based optical fiber sensors

10:20 to 10:40

Sergey Borisov (Institute of Analytical Chemistry and Food Chemistry, Graz University of Technology, Graz, Austria), Peter Zach, Maximilian Maierhofer, Sabrina Püschmann, Ingo Klimant

New NIR phosphorescent benzoporphyrin complexes for photonic applications

10:40 to 11:00

Charles Devillers (Institute of Molecular Chemistry of Burgundy University (ICMUB) UMR CNRS 6302, University of Bourgogne Franche-Comté, Dijon, France), Abdou K. D. Dimé, Seydou Hebié, Sébastien Rolle, Sophie Fournier, Dominique Lucas, Hélène Cattey, Dmitry V. Konev, Mikhail A. Vorotyntsev

Magnesium Porphine Electropolymerization and Electrografting of *meso*-Diazonium Porphyrins: Towards Sensing Materials

11:00 to 11:20

Felix Zelder (Institute of Chemistry, University of Zurich, Zurich, Switzerland), Huaiyi Huang, Hui Chao, Gilles Gasser, Namita Kumari

A Disassembly-Based Approach for Analyte Detection

11:20 to 11:40

Muniappan Sankar (Indian Institute of Technology Roorkee, Roorkee, India), Mandeep K. Chahal, Nivedita Chaudhri, Kamal Prakash, Ravi Kumar, Nitika Grover, Pinky Yadav

'Naked-eye' Detection of Toxic Anions using Porphyriniod Chemosensors and Their Reusability Studies

11:40 to 12:00

Larisa Lvova (Department of Chemical Science and Technologies, University "Tor Vergata", Rome, Italy), Donato Monti, Corrado Di Natale, Roberto Paolesse

Anion-Exchanger Side-Substituted Metalloporphyrin Ionophores: Systematic Anionic Selectivity Tailoring

S27 Porphyrin-Based Nanoscale Compositions for in Vivo Imaging

Room 5

Chaired by: Mike Therien

10:00 to 10:20

Marina Kuimova (Chemistry Department, Imperial College London, London, United Kingdom)

Porphyrin Dimers as Fluorescent Dual-Mode Viscosity and Temperature Sensors

10:20 to 10:40

Dmitri B. Papkovsky (School of Biochemistry and Cell Biology, University College Cork, Cork, Ireland), Ruslan Dmitriev, Alexander Zhdanov

High-Resolution Imaging of Tissue Hypoxia with Cell-Penetrating Phosphorescent Porphyrin Nanosensors

10:40 to 11:00

Sergei Vinogradov (University of Pennsylvania, Philadelphia, USA), Tatiana Esipova

Two-Photon Microscopy of Oxygen with Porphyrin-Based Phosphorescent Probes

11:00 to 11:20

Gang Zheng (University of Toronto, Toronto, Canada), Juan Chen

From nano to micro, and back: Explore porphyrin supramolecular chemistry for cancer imaging and therapy

S36 Photo- and Electro-Catalytic Processes

Room 4

Chaired by: Zeev Gross

10:00 to 10:20

Beate Roeder (Humboldt-Universitaet zu Berlin, Department of Physics, Berlin, Germany), Tobias Bornhuetter, Judith Pohl, Annegret Preuß

2D singlet oxygen luminescence observation of photodynamic inactivation of microorganisms on surfaces

10:20 to 10:40

Ally Aukauloo (Institut de Chimie Moléculaire et des Matériaux d'Orsay, Orsay, France)

Light Induced Electron Transfer in Fused Porphyrin-Imidazole-Phenol and Porphyrin-Catalyst Dyads as Biomimetic Models of PSII

10:40 to 11:00

Rui Cao (School of Chemistry and Chemical Engineering, Shaanxi Normal University, Xi'an, China)

Hydrogen and Oxygen Evolution Reactions Catalyzed by Single Site Metal Porphyrins and Corroles

11:00 to 11:20

Lior Elbaz (Bar-Ilan University, Ramat-Gan, Israel), Naomi Levy, Atif Mahammed, Zeev Gross

Electropolymerized Metallocorroles as Electrocatlysts for Oxygen Reduction

11:20 to 11:40

Günther Knör (Institute of Inorganic Chemistry, Johannes Kepler University Linz (JKU), Linz, Austria)

Tetrapyrrole-based Metal Complexes Designed for Bio-inspired Catalysis and Solar Fuel Production

11:40 to 12:00

Matthias Schwalbe (Institut für Chemie, Humboldt-Universität zu Berlin, Berlin, Germany)

Photochemical CO_2 Reduction Catalyzed by Mono- and Dinuclear Phenanthroline-Extended Tetramesityl Porphyrin Complexes

S40 Heme Enzymes: Structure and Function

Room 6

Chaired by: Dennis Rousseau and Syun-Ru Yeh

10:00 to 10:20

Maria Almira Correia (Cellular & Molecular Pharmacology, UCSF, San Francisco, USA), Sung-Mi Kim, YongQiang Wang, Shay Karkashon, Syun-Ru Yeh

Human Tryptophan 2,3-Dioxygenase (TDO) Protein Degradation: Structural Determinants

10:20 to 10:40

Stefan Franzen (Department of Chemistry, Raleigh, USA), Reza Ghiladi, Nikolette McCombs, Leiah Carey, Jing Zhao

Factors that Govern Function Switching in Multifunctional Heme Enzymes

10:40 to 11:00

Jim Kincaid (Department of Chemistry, Marquette University, Milwaukee, USA)

Structural Characterization of Cytochrome P450 Intermediates by Resonance Raman Spectroscopy

11:00 to 11:20

Shingo Nagano (Department of Chemistry and Biotechnology, Graduate School of Engineering, Tottori University, Tottori, Japan), Keisuke Fujiyama, Masahiro Kanadani, Tomoya Hino, Masaharu Mizutani

Crystal Structure of CYP90B1, which is Involved in Brassinosteroid Biosynthesis

11:20 to 11:40

George Richter-Addo (Department of Chemistry and Biochemistry, University of Oklahoma, Norman, USA), Erwin Abucayon, Rahul Khade, Yong Zhang

Hydride Attack at the Coordinated Nitrosyl in a Ferric Porphyrin Generates the Fe-HNO Derivative

11:40 to 12:00

Sachiko Yanagisawa (Graduate School of Life Science, University of Hyogo, Sayo-gun, Japan), Kuree Kayama, Masayuki Hara, Hiroshi Sugimoto, Yoshitsugu Shiro, Takashi Ogura

UV resonance Raman study on Indoleamine 2,3-dioxygenase

12:00 to 12:20

Jianfeng Li (College of Materials Science and Opto-electronic Technology, University of Chinese Academy of Sciences, Beijing, China), Bin Hu, W. Robert Scheidt

$\{FeNO\}^6$, $\{FeNO\}^7$ and $\{FeNO\}^8$ Porphyrinates – Structures and Vibrations

FRIDAY

Friday, 8 July 2016, Afternoon

S11 Metalloporphyrinoids: Design, Spectroscopy and Application

Room 1

Chaired by: Jun-Long Zhang and Kin Shing Chan

13:30 to 13:50
I-Jy Chang (Department of Chemistry, National Taiwan Normal University, Taipei, Taiwan), Da-An Chian, Li-Rong Huang
Photosensitizer Reactions with Iron Porphyrin

13:50 to 14:10
Hua Lu (Hangzhou Normal University, Hang Zhou, China)
Rational Design of Tuned-wavelength BODIPYs: From Blue to Near Infrared Region

14:10 to 14:30
John Mack (Department of Chemistry, Rhodes University, Grahamstown, South Africa), Poulomi Majumdar, Jessica Harris, Lizhi Gai, Maohu Shi, Tebello Nyokong, Zhen Shen
Rational design, synthesis and properties of non-benzo fused-ring-expanded phthalocyanines and aza-BODIPYs

14:30 to 14:50
Hongmei Su (Beijing Normal University, Beijing, China)
DNA G-Quadruplex / Porphyrin Interactions Studied by Transient Absorption Spectroscopy

14:50 to 15:10
Jinping Xue (Colloge of Chemistry, Fuzhou, China)
Design Synthesis and Activity of Small molecular Targeted Anticancer Photosensitizer

15:10 to 15:30
Peter Zhang (Department of Chemistry, Boston College, Chestnut Hill, USA)
New Applications of Cobalt(II) Porphyrin-Based Metalloradical Catalysis

15:30 to 16:00
Coffee break

S18 Chirality and Spatially Pre-Organized Multi-Porphyrins with Induced Properties

Room 2

Chaired by: Nathalie Solladie and Victor Borovkov

13:30 to 13:50

Piotr J. Chmielewski (Department of Chemistry, University of Wroclaw, Wroclaw, Poland)

2-Aza-21-carbaporphyrin Derivatives as Versatile Chirality Sensors with Memory

13:50 to 14:10

Corrado Di Natale (Department of Electronic Engineering, University of Rome Tor Vergata, Roma, Italy), Roberto Paolesse, Donato Monti

The Enantioselective Sensors Based on Porphyrins Aggregates

14:10 to 14:30

Naoki Komatsu (Kyoto University, Kyoto, Japan)

Diporphyrin Nanotweezers and Nanocalipers for Optical Resolution of Single-Walled Carbon Nanotubes

14:30 to 14:50

Mathias O. Senge (School of Chemistry, Trinity College Dublin, the University of Dublin, Dublin, Ireland)

Spatial Organization and Molecular Modulation of Photosynthetic Chromophores and Biomimetic Multi-porphyrin Arrays

14:50 to 15:10

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

Discrete Ladders and Macroporous Film from Zipper-like Dimerization of *meso-meso* Linked Zinc Porphyrin Arrays

15:10 to 15:30

Xuehai Yan (National Key Laboratory of Biochemical Engineering, Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China), Qianli Zou, Kai Liu, Manzar Abbas

Cooperative Self-assembly of Simple Peptides and Porphyrins into Complex Synthetic Systems with Functional Properties

15:30 to 16:00

Coffee break

FRIDAY

S19 Phthalocyanine-Based Devices

Room 3

Chaired by: Marcel Bouvet and Yanli Chen

13:30 to 13:50

Catherine Hirel (Gebze Teknik Üniversitesi Temel Bilimler Fakültesi, Gebze- Kocaeli, Turkey), Sevinç Topal, Vefa Ahsen

Phthalocyanines as Fluorescent Chemosensors for Cu^{2+}

13:50 to 14:10

Renjie Li (College of Chemistry and Molecular Science, Wuhan University, Wuhan, China), Yingying Guo, Xiaohu Zhang

Asymmetric Phthalocyanine as a Sensitizer of Graphitic Carbon Nitride for Efficient Photocatalytic H_2 Production

14:10 to 14:30

Qingyun Liu (School of Chemistry and Environmental Engineering, Shandong University of Science and Technology, Qingdao, China), Mingxing Chen, Lifang Sun, Miaomiao Chen, Yanan Ding

Porphyrin/Phthalocyanine Modified Inorganic Nanomaterials: Promising Peroxidase Mimetics for H_2O_2 and Glucose Detection

14:30 to 14:50

Salih Zeki Yildiz (Sakarya University, Department of Chemistry, Sakarya, Turkey), Pinar Sen, Ertug Yildirim

Schiff Base Complexes Functionalized Phthalocyanines for Oxidation Catalysts in Bleaching System

14:50 to 15:10

Abdurrahman Sengul (Chemistry Department, Bülent Ecevit University, Zonguldak, Turkey), Fatih Pekdemir, Sebile Isik Buyukeksi, Ozer Bekaroglu

Synthesis of Bay Substituted PDI Derivatives for PVs

15:30 to 16:00

Coffee break

S35 Towards Two Dimensional Tetrapyrrole Nanostructures

Room 4

Chaired by: Jianxin Song and Jianzhuang Jiang

13:30 to 13:50

Yoshihiro Matano (Department of Chemistry, Faculty of Science, Niigata University, Niigata, Japan)

Covalently Linked Dimers of 10,20-Diaryl-5,15-Diazaporphyrin–Metal Complexes

13:50 to 14:10

Yongshu Xie (Key Laboratory for Advanced Materials and Institute of Fine Chemicals, East China University of Science and Technology, Shanghai, China), Yunyu Tang, Pingchun Wei, Masatoshi Ishida, Hiroyuki Furuta

Porphyrins and Analogues for Optoelectronic Applications

14:10 to 14:30

Pavel A. Stuzhin (Research Institute of Macroheterocycles, Ivanovo State University of Chemical Technology, Ivanovo, Russia), Oskar Koifman, Maksim S. Mikhailov

1,2,5-Telluradiazoloporphyrazines and Their Peripheral Modification

14:30 to 14:50

Satoru Hiroto (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan), Satoru Ito, Hiroshi Shinokubo

Highly-twisted porphyrin oligomers: Synthesis, characterization and applications

15:30 to 16:00

Coffee break

FRIDAY

S43 Heme Enzymes : Functional Mechanisms

Room 6

Chaired by: Takashi Ogura and Shingo Nagano

13:30 to 13:50

Giulietta Smulevich (Dipartimento di Chimica, Ugo Schiff Università di Firenze, Sesto Fiorentino (Fi), Italy), Lisa Milazzo, Lorenzo Tognaccini, Barry D. Howes, Maria Fittipaldi, Federica Sinibaldi, Roberto Santucci

Cytochrome *c*-Cardiolipin interaction at the molecular level

13:50 to 14:10

Anabella Ivancich (CNRS & Aix-Marseille University, Marseille, France), Toni Kuhl, Kai Wada, Vincent L. Pecoraro

Mechanistic Insights to the Ferryl High-valent Intermediates in Peroxidases, KatGs and *de novo* Mini-heme Catalysts

14:10 to 14:30

Syun-Ru Yeh (Albert Einstein College of Medicine, Bronx, USA)

Oxygen Intermediate of Human Tryptophan 2,3-Dioxygenase: From Structure to Function

14:30 to 14:50

Irina Sevrioukova (Department of Molecular Biology and Biochemistry, University of California, Irvine, USA), Thomas Poulos

Unraveling the mechanism of CYP3A4 catalysis and inhibition: challenges and advances

14:50 to 15:10

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

The Coupling Mechanism Between Proton Pumping and Oxygen Reduction Reaction in Cytochrome *c* Oxidase

15:10 to 15:30

Toshitaka Matsui (IMRAM, Tohoku University, Sendai, Japan), Shusuke Nambu, Masao Ikeda-Saito

Unusual Heme Degradation Achieved by Unprecedented Coupling of Two Distinct Oxygenation Modes

15:30 to 16:00

Coffee break

Award Lecture
Hans Fischer Career Award in Porphyrin Chemistry

Room 1

Chaired by: Hiroyuki Furuta

16:00 to 17:00

Jonathan L. Sessler (Department of Chemistry, University of Texas, Austin, USA)

Non-porphyrin pyrrolic macrocycles

Symposia of Poster Session I, Tuesday, 5 July 2016

S01 Corrole Synthesis and Functionalization
S02 Sandwich Tetrapyrrole Rare Earth Functional Molecular Materials
S03 Advances in the Synthesis and Properties of Phthalocyanines and Related Systems
S04 Porphycenes
S05 SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids
S06 Functionalization of Porphyrins
S07 NIR-Responsive Porphyrinoids: Synthesis, Properties, and Applications
S08 Advances in the Chemistry of Porphyrazines (Substituted and Annulated)
S09 BODIPY Dyes: Past, Present and Future
S10 Novel Pyrrolic Macrocycles and Chromophores Synthesis, Properties and Applications
S11 Metalloporphyrinoids: Design, Spectroscopy and Application
S11-P-001 to S11-P-018
S28 Porphyrin-Based Compounds for Cancer-Imaging and Therapy - a Translational Approach
S28-P-002, S28-P-005

Symposia of Poster Session II, Thursday, 7 July 2016

S11 Metalloporphyrinoids: Design, Spectroscopy and Application
S11-P-019 to S11-P-021
S12 Nonlinear Optical Phenomena in Porphyrins and Phthalocyanines
S13 Exotic Coordination Chemistry of Porphyrinoid Systems and its Applications
S14 Porphyrin- and Phthalocyanine-based Nanomaterials
for Energy Conversion, Storage and Catalysis
S16 Covalent and Noncovalent Assembly of Porphyrins
on DNA
S17 Porphyrin-Modified Hard-Matter Nanoscale Objects
for Electro-Optics and Energy Conversion
S18 Chirality and Spatially Pre-Organized Multi-Porphyrins
with Induced Properties
S19 Phthalocyanine-Based Devices
S20 Porphyrinoid Based Chemical Sensors
S21 Porphyrin Assemblies in Confined Space: from Structural Control to Function
S22 Antimicrobial Photodynamic Therapy
S23 Hydrosoluble Porphyrin Derivatives for Medical/Biological Applications
S24 Phthalocyanine Materials for PDT
S26 Targeting in PDT: the Different Strategies
S28 Porphyrin-Based Compounds for Cancer-Imaging
and Therapy - a Translational Approach
S29 Nanotechnology in Delivering PDT Agents to Tumors
S30 Basic and Clinical Research in PDT
S31 Electron Transfer Applications of Tetrapyrroles
S33 Catalytic Chemical Transformations by Metalloporphyrins
S34 Porphyrinoids for Dye-Sensitized and Bulk Heterojunction Organic Solar Cells
S35 Towards Two Dimensional Tetrapyrrole Nanostructures
S36 Photo- and Electro-Catalytic Processes
S37 Heme Proteins and Analogues
S39 Vitamin B12: Crossing all Borders
S40 Heme Enzymes: Structure and Function
S41 Biochemistry of Linear Tetrapyrroles
S42 Natural Porphyrinoid Pigments: Synthesis, Structure and Biological Function
S44 Computational Advances in Porphyrin and Phthalocyanine Chemistry
S45 Theory and Spectroscopy

POSTERS

Tuesday, 5 July, 2016 - Poster Session I

S01 Corrole Synthesis and Functionalization

S01-P-001

Lei Cong (University of Houston, Houston, USA), Xiangyi Ke, Yuanyuan Fang, Pinky Yadav, Muniappan Sankar, Karl M. Kadish

Electrochemical and spectroelectrochemical studies of phenylethynyl β-substituted corroles and porphyrins

S01-P-002

Xiangyi Ke (University of Houston, Houston, USA), Lei Cong, Yuanyuan Fang, Ravi Kumar, Muniappan Sankar, Karl M. Kadish

Electrogeneration and electrochemistry of σ-bonded cobalt porphyrins with π-extended systems and/or highly electron-withdrawing pyrrole substituents

S01-P-003

Sudhakar Kolanu (Schulich Faculty of Chemistry, Haifa, Israel), Giribabu Lingamallu, Zeev Gross

Corrole Based Donor-Acceptor Systems

S01-P-004

Mario L. Naitana (ICMUB-P2DA (UMR CNRS 6302), Université de Bourgogne Sciences et Techniques, Dijon cedex, France), Nicolas Desbois, Franck Gallardo, Claude P. Gros

Nitrocorroles as potential agents against human cytomegalovirus infection

S01-P-005

Hiroto Omori (Department of Applied chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan), Satoru Hiroto, Hiroshi Shinokubo

Azacorroles from Nitrogen Bridged Bisdipyrrins

S01-P-006

Shota Ooi (Kyoto University, Kyoto, Japan), Takayuki Tanaka, Atsuhiro Osuka

Triply Linked Corrole Dimers

S01-P-007

Rafał Orłowski (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland)

Novel meso-amide corroles

S01-P-008

Justyna Sniechowska (Department of Structural Studies, Centre of Molecular and Macromolecular Studies of Polish Academy of Sciences, Lodz, Poland), Piotr Paluch, Grzegorz Bujacz, Marcin Gorecki, Jadwiga Frelek, Daniel T. Gryko, Marek J. Potrzebowski

Chiral crystals of 5,10,15-tris(pentafluorophenyl)corrole

S01-P-009

Yang Song (Department of Chemistry, Houston, USA), Yuanyuan Fang, Zhongping Ou, Karl Kadish

Electrochemistry and acid/base properties of free-base octabromo triarylcorroles in nonaqueous media

POSTERS

S01-P-010

Wenda Wang (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Lina Ye, Zhongping Ou, Yuanyuan Fang, Yang Song, Karl Kadish

Effect of NO_2 substitution and solvent on UV-visible spectra, redox potentials and electron transfer mechanism of β-nitrocopper triarylcorroles. Proposed electrogeneration of a Cu(I) oxidation state

S02 Sandwich Tetrapyrrole Rare Earth Functional Molecular Materials

S02-P-001

Xiaoqin Jiang (Department of Chemistry, University of Houston, Houston, USA), Wenqian Shan, Hong-Guang Jin, Guifen Lu, Karl Kadish, Tepdor Silviu Balaban

Electrochemistry and Spectroelectrochemistry of Triple Decker Complexes Containing Phthalocyanines and Porphyrin or Corrole Macrocycles

S02-P-002

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

Sandwich-type tetrapyrrole-based OFETs and SMMs

S02-P-003

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

Tris(phthalocyaninato) Europium-based Ambipolar OFET: Temperature Effect of Solvent Vapor Annealing on the Morphology and Performance

S02-P-004

Qi Ma (Department of Chemistry, University of Science and Technology Beijing, Beijing, China)

Tetrakis(phthalocyaninato) Terbium-cadmium Quadruple-decker Liquid Crystals with Good Semiconducting Properties

S03 Advances in the Synthesis and Properties of Phthalocyanines and Related Systems

S03-P-001

Sun, Y. S. Chow (Department of Chemistry, The Chinese University of Hong Kong, Hong Kong, China), Dennis Kee Pui Ng

Synthesis of the First ABCD-Type Phthalocyanine via Intramolecular Cyclization

S03-P-002

Ettore Fazio (Departamento de Quimica, Universidad Autonoma de Madrid, Madrid, Spain), Gema de la Torre, Jonathan Nitschke, Tomas Torres

Synthesis of Novel ABAB Phthalocyanine-Edged M_4L_6 Cages

S03-P-003

Mikhail Islyaikin (Research Institute of Macroheterocycles, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Yuriy Zhabanov, Alexander Zakharov, Nina Giricheva

Structural features and coordination bonding in hemihexaphyrazine complexes with Y, La and Lu: a theoretical study

S03-P-004

Hong-Guang Jin (Aix-Marseille Université, CNRS UMR 7313, Marseille, France), Mihaela Carmen Balaban, Sabine Chevallier-Michaud, Michel Righezza, Teodor Silviu Balaban

Biomimetic Self-assembling Acylphthalocyanines

S03-P-005

Chang Young Jung (Department of Organic and Nano Engineering, Hanyang University, Seoul, Korea), Jong Min Park, Joong Hyun Cho, Dae Hyun Kim

Synthesis of Novel Porphyrin-Phthalocyanine Dyads Photosensitizer

S03-P-006

Houhe Pan (Beijing Key Laboratory for Science and Application of Functional Molecular and Crystalline Materials Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Chao Chen, Kang Wang

Unsymmetrical Pyrene-Fused Phthalocyanine Derivatives: Synthesis, Structure, and Properties

S03-P-007

Munyaradzi Shumba (Rhodes Universty, Grahamstown, South Africa), Tebello Nyokong

Electrode Modification Using Nanocomposites of Boron or Nitrogen Doped Graphene Oxide and Cobalt (II) Tetra Aminophenoxyphthalocyanine Nanoparticles

S03-P-008

Lara Tejerina González (Universidad Autónoma de Madrid, Madrid, Spain), M. Victoria Martínez-Díaz, Mohammad Khaja Nazeeruddin, Tomas Torres

The Influence of Substituent Orientation on the Photovoltaic Performance of Phthalocyanine-Sensitized Solar Cells

S04 Porphycenes

S04-P-001

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

Synthesis of Non-planar Porphycene Dimers for New n-type Organic Semiconductors

POSTERS

S05 SubPcs, SubPzs, SubPors and Related Contracted Porphyrinoids

S05-P-001

Yuan Dong (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Zhaoli Xue, Yemei Wang, Weihua Zhu

Synthesis, Characterization and Electrochemistry of meso-Substituted [14]Triphyrin(2.1.1) Rhenium(I) complexes

S05-P-002

David Guzman (Universidad Autonoma de Madrid, Cantoblanco, Spain), Esmeralda Caballero, M. Salomé Rodríguez-Morgade, Purificación Vázquez, Tomas Torres

Preparation of New Extended-Conjugated Systems by Peripheral Modification on Subporphyrazines

S05-P-003

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

Subporphyrazine/TiO_2–Hybrids for Dual Pathway Photocatalysis

S05-P-004

Zhaoli Xue (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Yemei Wang, Yuan Dong, Zhongping Ou

Synthesis and Structures of [14]Tribenzotriphyrin(2.1.1) Metal Complexes

S06 Functionalization of Porphyrins

S06-P-001

Nivedita Chaudhri (Indian Institute of Technology Roorkee, Roorkee, India), Nitika Grover, Kumari Anshul, Muniappan Sankar

Facile Synthesis of Unsymmetrical β-substituted Porphyrins via Nucleophilic Substitution Reactions

S06-P-002

Hervé Dekkiche (Institut de Chimie, Université de Strasbourg, Strasbourg, France), Romain Ruppert, Laurent Ruhlmann, Sébastien Richeter, Antoine Buisson, Adam Langlois, Paul-Ludovic Karsenti, Pierre D. Harvey

Ultrafast energy transfers in bis-porphyrin dyads

S06-P-003

Charles Devillers (ICMUB UMR6302, CNRS, University of Bourgogne Franche-Comté, Dijon, France), Abdou Khadre Djily Dimé, Hélène Cattey, Dominique Lucas

Anodic Reactivity of Zinc(II) and Nickel(II) Tri-Meso-Aryl-Porphyrins with One Meso-Free Position

S06-P-004

Charles Devillers (ICMUB UMR6302, CNRS, University of Bourgogne Franche-Comté, Dijon, France), Seydou Hebié, Dominique Lucas, Hélène Cattey, Sébastien Clément, Sébastien Richeter

Aromatic Nucleophilic Substitution of meso-Nitroporphyrin with Azide and Amines

POSTERS

S06-P-005

Keisuke Fujimoto (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Hideki Yorimitsu, Atsuhiro Osuka

Synthesis and Characterization of Diphenylborane-fused Porphyrins

S06-P-006

Masaya Fukuda (Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Soji Shimizu, Hiroyuki Furuta

Synthesis of N-Confused Porphyrin-aza-Dipyrrin Conjugates: Porphyrin Analogues Bearing Exterior and Interior Coordination Sites

S06-P-007

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

Highly Planar Diarylamine-fused Porphyrins and Their Stable Radical Cations

S06-P-008

Nitika Grover (Indian Institute of Technology Roorkee, Roorkee, India), Yang Song, Muniappan Sankar, Karl M. Kadish

Synthesis, Photophysical, Spectroelctrochemical and Redox Properties of "Push–Pull" Octaphenylporphyrins

S06-P-009

Yuya Hiraoka (Graduate School of Engineering Nagoya University, Nagoya, Japan), Yoshihiro Miyake, Hiroshi Shinokubo

Synthesis and Properties of Tetrapyridyldiazaporphyrin

S06-P-010

Helen Hölzel (FAU Erlangen-Nürnberg, Erlangen, Germany), David Reger, Dominik Lungerich, Norbert Jux

Uncommon Hexaarylbenzenes as Platform for Porphyrin-Fullerene Systems

S06-P-011

Xiaoqin Jiang (Department of Chemistry, University of Houston, Houston, USA), Wenqian Shan, Yuanyuan Fang, R.G. Waruna Jinadasa, Siddhartha Kumar, Karl Kadish, Hong Wang

Electrochemistry and Spectroelectrochemistry of π-Extended Porphyrins

S06-P-012

Chang Young Jung (Department of Organic and Nano Engineering, Hanyang University, Seoul, Korea), Jong Min Park, Joong Hyun Cho, Dae Hyun Kim

Synthesis of A3B-Type Quinoxaline-substituted Porphyrin Photosensitizer

S06-P-013

Kenichi Kato (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Hideki Yorimitsu

Porphyrin Analogues of Trityl Cation and Anion

S06-P-014

Mikalai Kruk (Belarusian State Technological University, Physics Department, Minsk, Belarus), Irina Vershilovskaya, Stefano Stefani, Pieter Verstappen, Thien Ngo, Ivan Scheblykin, Wim Dehaen, Wouter Maes

Fluorescence of Mixed Phenyl-Mesityl 5,10,15,20-Tetraarylporphyrin Series: Role of Macrocycle Conformation

S06-P-015

Ruoshi Li (Department of Chemistry, University of Connecticut, Storrs, USA), Eileen Meehan, Matthias Zeller, Christian Brückner

Surprising Outcomes of Classic Ring Expansion Reactions When Applied to Octaethyloxochlorin

S06-P-016

Ryo Nozawa (Graduate School of Engineering, Nagoya University, Japan, Nagoya, Japan), Soji Shimizu, Ichiro Hisaki, Won-Young Cha, Dongho Kim, Hiroshi Shinokubo

Synthesis and Properties of Stacked Antiaromatic Norcorrole Dimer

S06-P-017

Nisansala Pitiduwa-Hewage (Department of Chemistry, University of Connecticut, Storrs, USA), Matthias Zeller, Christian Brückner

Oxidizing Chromene-annulated Chlorin

S06-P-018

Maximilian Popp (Department of Chemistry and Pharmacy Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany), Andreas Hirsch

Triazole linked porphyrin-cyclo-[2]-malonate conjugates - a new building block for fullerene chemistry

S06-P-019

David Reger (FAU Erlangen-Nürnberg, Department of Chemistry and Pharmacy, Organic Chemistry II, Erlangen, Germany), Ann-Kristin Steiner, Dominik Lungerich, Norbert Jux

Porphyrin-derivatives linked to Ir(III)-Complexes as potential Materials for OLEDs

S06-P-020

Michael Ruppel (Department of Chemistry and Pharmacy, Chair of Organic Chemistry II, Friedrich-Alexander-University Erlangen-Nuremberg, Erlangen, Germany), Dominik Lungerich, Norbert Jux

Improved Synthesis and Optical Properties of Functionalized Arylated Tetrabenzoporphyrins

S06-P-021

Yuta Saegusa (Department of Chemistry, University of Tsukuba, Tsukuba, Japan), Tomoya Ishizuka, Tatsuhiro Kojima, Shigeki Mori, Masaki Kawano, Takahiko Kojima

Supramolecular Assembly between a Monomeric Quadruply Ring-Fused Porphyrin and Fullerenes

S06-P-022

Meenakshi Sharma (Department of Chemistry/University of Connecticut, Storrs, USA), Eileen Meehan, Christian Brückner

β-Alkyloxazolochlorins: Ozonation of Octaalkylporphyrins

S06-P-023

Marcus Speck (Department of Chemistry and Pharmacy, Organic Chemistry II, Erlangen, FAU Erlangen-Nuremberg, Germany), Rohde Sofia, Pinkert Ute, Hirsch Andreas

Different synthetic Pathways toward Porphyrin substituted Hexaphenylbenzenes

POSTERS

S06-P-024

Wataru Suzuki (Department of Chemistry, University of Tsukuba, Tsukuba, Japan), Hiroaki Kotani, Tomoya Ishizuka, Kei Ohkubo, Shunichi Fukuzumi, Takahiko Kojima

Hydrogen-Bond-Assisted Selective Formation of Monoprotonated Dodecaphenylporphyrin and the Photodynamics of Intermolecular Electron Transfer

S06-P-025

Shi-Ju Wang (Department of Applied Chemistry, National Chi Nan University, Nantou Hsien, Taiwan), Guan-Ling Chen, Kuo Yuan Chiu, Yuhlong Oliver Su

Engineering zinc porphyrin linked with meso-phenylenediamine substituent for electrochemically controlled ligand shuttling

S06-P-026

Ayaka Yamaji (Department of Applied Chemistry, Graduate School of Engineering, Nagoya University, Nagoya-city, Japan), Yoshihiro Miyake, Hayato Tsurugi, Kazushi Mashima, Hiroshi Shinokubo

Chemo- and Regioselective Reduction of Diazaporphyrins

S06-P-027

Takuya Yoshida (Department of Applied Chemistry Graduate School of Engineering Nagoya University, Nagoya, Japan), Kohtaro Takahashi, Hiroko Yamada, Hiroshi Shinokubo

Tetrabenzonorcorrole: a benzo-fused 16π antiaromatic porphyrinoid

S07 NIR-Responsive Porphyrinoids: Synthesis, Properties, and Applications

S07-P-001

Won-Young Cha (Department of Chemistry, Seoul, Korea), Taeyeon Kim

Realization of Three-Dimensional Aromaticity in Bridged Core-Modified Octaphyrin

S07-P-002

Jiazhu Li (College of Chemistry and Chemical Engineering, Yantai, China), Yan-Long Li, Nailiang He, Jun-Gang Yin, Jin-Jun Wang

Aromatic Ring Fused Chlorophylls: Efficient Synthesis and Unique Optical Properties

S07-P-003

Pradeepta Panda (School of Chemistry, University of Hyderabad, Hyderabad, India), M. V. Nanda Kishore

First solid state structural characterization in novel bronzaphyrins: Synthesis and photophysical properties

S07-P-004

Takanori Soya (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Hirotaka Mori, Atsuhiro Osuka

Syntheses and Characterizations of Internally Bridged Expanded Porphyrins

S08 Advances in the Chemistry of Porphyrazines (Substituted and Annulated)

S08-P-001

Chang Youn Jung (Department of Organic and Nano Engineering, Hanyang University, Korea, Korea), Jong Min Park, Joong Hyun Cho, Dae Hyun Kim

Fluorescent Chemosensor for Copper(II) based on new A_3B Zinc Phthalocyanine

S08-P-002

Satoshi Omomo (Department of Fundamental Sciences, Graduate School of Science and Technology, Niigata University, Niigata, Japan), Kenichi Sugiura, Tomohiro Higashino, Hiroshi Imahori, Yoshihiro Matano

Synthesis and Properties of β-Aryl-5,15-diazaporphyrin Derivatives with Large Charge Transfer Character

S09 BODIPY Dyes: Past, Present and Future

S09-P-001

Raja Sekhar Adiki (Chemistry Department, Indian Institute of Science Education and Research, Bhoapl, India), Sankar Jeyaraman

Aliphatic amine discrimination by Pentafluorophenyl-dibromo BODIPY

S09-P-002

Raja Sekhar Adiki (Chemistry Department, Indian Institute of Science Education and Research, Bhoapl, India), Sankar Jeyaraman

Novel Fluorescent Zwitter-ionic BODIPYs: Water-soluble small molecular bio-markers for living cells

S09-P-003

Iti Gupta (Chemistry Department, IIT Gandhinagar, Ahmedabad, India), Naresh Balsukuri

Donor-Acceptor Type Aza-BODIPYs

S09-P-004

Yutaka Hisamune (Department of Chemistry and Biochemistry, Fukuoka, Japan), Keiichi Nishimura, Kazuhisa Yamasumi, Masatoshi Ishida, Hiroyuki Furuta

Synthesis and Properties of Corrorin-based Boron Difluoride Complex with a Helical Motif Skeleton

S09-P-005

Yuto Kage (Kyushu University, Fukuoka, Japan), Shigeki Mori, Hiroyuki Furuta, Soji Shimizu

Pyrrolopyrrole Aza-BODIPY Monomers and Dimers: Control of Absorption in the Far-red and NIR Regions

S09-P-006

Mikalai Kruk (Belarusian State Technological University, Physics Department, Minsk, Belarus), Nguyen Tran Nguyen, Bram Verbelen, Volker Leen, Wim Dehaen

Excitation Energy Deactivation Funnel in 3-Substituted BODIPY-Zn-porphyrin Conjugate

POSTERS

S09-P-007

Yuya Matsuzaki (Graduate School of Science and Engineering, Ehime University, Bunkyo-cho 2-5, 790-8577, Japan), Yoichi Shida, Shigeki Mori, Masayoshi Takase, Hidemitsu Uno, Tetsuo Okujima

Synthesis and Properties of 1,5-Diazafulvalenes

S09-P-008

Qianli Meng (Chemistry, Louisiana State University, Baton Rouge, USA), Frank R. Fronczek, Graca Vicente

Synthesis of Near-IR BODIPYs via Functionalization of β,β'-Bicyclo-3,5-Diiodo-8-Aryl-BODIPYs

S09-P-009

Maodie Wang (Louisiana State University, Baton Rouge, USA), Alex L. Nguyen, Graca Vicente

Synthesis and Investigation of 4,4'-dicyano-BODIPY Derivatives

S09-P-010

Tyrslai Williams (Department of Chemistry, Louisiana State University, Baton Rouge, USA), Graça Vicente

Contemporary Synthesis and Investigation of Peptidic-BODIPY Conjugates

S09-P-011

Sunting Xuan (Chemistry, Baton Rouge, USA), Ning Zhao, Zehua Zhou, Frank Fronczek, Graca Vicente

Synthesis and In Vitro Properties of a Series of Carborane-containing BODIPYs

S09-P-012

Ning Zhao (Department of Chemistry, Louisiana State University, Baton Rouge, USA), Sunting Xuan, Frank Fronczek, Kevin M. Smith, Graca Vicente

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Stefanie Bahnmüller (Institute of Inorganic and Analytical Chemistry, Braunschweig, Germany), Martin Bröring

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Gabriel Canard (Aix-Marseille University, CINaM UMR 7325, Marseille cedex 09, France), Olivier Siri, Zhongrui Chen, Gabriel Marchand, Denis Jacquemin, Lucien Lavaud

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Catherine Hirel (Gebze Teknik Üniversitesi, Temel Bilimler Fakültesi, Gebze Kocaeli, Turkey), Emel Onal, Sevinç Zehra Topal, Ismail Fidan, Fabienne Dumoulin

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Nobuhiro Hiura (Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan), Shigeki Mori, Masayoshi Takase, Hidemitsu Uno, Tetsuo Okujima

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Xian-Sheng Ke (The University of Texas at Austin, Austin, USA), James Brewster II, Jonathan Sessler

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

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Hiroki Matsumoto (Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan), Shigeki Mori, Masayoshi Takase, Hidemitsu Uno, Tetsuo Okujima

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Kosuke Oki (Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan), Yoshiki Sasaki, Masayoshi Takase, Shigeki Mori, Tetsuo Okujima, Hidemitsu Uno

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

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Pradeepta Panda (School of Chemistry, University of Hyderabad, Hyderabad, India), Bijigiri Sathish Kumar

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Bartosz Szyszko (Department of Chemistry, University of Wroclaw, Wroclaw, Poland), Marcin Malecki, Anna Berlicka, Agata Bialonska, Kamil Kupietz, Michal Bialek, Ewa Pacholska-Dudziak, Lechoslaw Latos-Grazynski

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Kazunari Tagawa (Department of Chemistry and Biology, Graduate School of Science and Engineering, Ehime University, Matsuyama, Japan), Shigeki Mori, Masayoshi Takase, Tetsuo Okujima, Hidemitsu Uno

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Masataka Umetani (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Koji Naoda, Takayuki Tanaka

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Anastasia Vogel (Georg-August-University, Institute of Inorganic Chemistry, Göttingen, Germany), Sebastian Dechert, Michael John, Christian Brückner, Franc Meyer

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Weijie Xu (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Lina Ye, Songlin Xue, Wenda Wang, Yuanyuan Fang, Zhongping Ou, Yang Song, Karl Kadish

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Tomoki Yoneda (Chiba University, Chiba, Japan), Taeyeon Kim, Takanori Soya, Saburo Neya, Juwon Oh, Dongho Kim, Atsuhiro Osuka

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Changjiang Yu (Anhui Normal University, Wuhu, China), Qinghua Wu, Lijuan Jiao, Erhong Hao

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Yimin Zhou (Department of Chemistry, The Chinese University of Hong Kong, Hong Kong, China), Dennis Kee Pui Ng, Shirui Zhao, Pui-Chi Lo

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S11 Metalloporphyrinoids: Design, Spectroscopy and Application

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Dmitry Berezin (Ivanovo State University of Chemistry and Technology, Ivanovo, Russia), Thao Vu Thi, Olga Shukhto, Anastasiya Talanova, Nadezhda Berezina, Mikhail Krestyaninov, Alexander Semeykin

Isomeric, N-Substituted and Contracted Porphyrinoids: Tautomeric and Acid-Base Equilibria, Thermal and Acid Media Stability and Electrocatalysis by Metallocomplexes

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Michal Bialek (University of Wroclaw, Wroclaw, Poland), Lechoslaw Latos-Grazynski

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Ahmet T. Bilgiçli (Department of Chemistry, Sakarya University, Sakarya, Turkey), Armagan Günsel, M. Nilüfer Yarasir, Mehmet Kandaz

New phthalocyanines with thiol functional substituents for detection of heavy metal ions by induced aggregations

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Ahmet T. Bilgicli (Department of Chemistry, Sakarya University, Sakarya, Turkey), M. Nilüfer Yarasir, Orhan Güney, Mehmet Kandaz

Selective Discriminating of Mercuric and Mercurous Ions with a Thiol-Functionalized Phthalocyanine

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Armağan Günsel (Department of Chemistry, Sakarya, Turkey), Ahmet T. Bilgicli, M. Nilüfer Yarasir

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Karolina Hurej (University of Wroclaw, Wroclaw, Poland), Milosz Pawlicki, Ludmila Szterenberg, Lechoslaw Latos-Grazynski

Transformations of rhodium(III) 21-carbaporphyrin. The intramolecular reversible C-C cleavage.

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Mehmet Kandaz (Department of Chemistry, Sakarya University, Sakarya, Turkey), Merve Umutlu, Orhan Güney

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Taeyeon Kim (Department of Chemistry, Yonsei Univ, Seoul, Korea)

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Daniel LaMaster (Department of Chemistry, Louisiana State University, Baton Rouge, USA)

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Minzhi Li (School of Chemistry and Chemical Engineering, Zhenjiang, China), Minzhi Li, Xu Liang, Tingting Huang, Mingfeng Qin, Weihua Zhu

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Minzhi Li (School of Chemistry and Chemical Engineering, Zhenjiang, China), Minzhi Li, Xu Liang, Lili Liang, Cui Ni, Weihua Zhu

Rational Molecular Design of Metallo-Porphyrin towards Enhanced Removal of Toxic Organochlorides

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Murugavel Muthuchamy (Indian Institute of Science Education and Research Bhopal, Bhopal, India), R. V. Ramana Reddy, Sankar Jeyaraman

First Example of a Modular Porphyrinoid Assembly Capable of Stabilizing Different Metal Ions in a Single Molecular Scaffold

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Murugavel Muthuchamy (Indian Institute of Science Education and Research Bhopal, Bhopal, India), Jyoti Rai, R. V. Ramana Reddy, Sankar Jeyaraman

Corrole-Porphyrin-Corrole ($C_{[10]}$•$P_{[5,15]}$•$C_{[10]}$) Hybrids with Metal Ions in Multiple Oxidation States

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Daiki Shimizu (Kyoto University, Kyoto, Japan)

Triarylporphyrin meso-Oxy Radicals: Remarkable Chemical Stabilities and Oxidation to Oxophlorin [pi]-Cations

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Takayuki Tanaka (Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto, Japan), Mondo Izawa, Shin-ichiro Ishida, Atsuhiro Osuka

Syntheses and Properties of [28]Hexaphyrin Ge(IV) and Sn(IV) Complexes

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Ruisheng Xiong (Department of Chemistry-Ångström, Uppsala University, Uppsala, Sweden), Anna Arkhypchuk, Daniel Kovacs, Andreas Orthaber, Eszter Borbas

Synthesis and Charaterization of Chlorin Dimers

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Ruisheng Xiong (Department of Chemistry-Ångström, Uppsala University, Uppsala, Sweden), Eszter Borbas

Hydroporphyrin sensitised NIR lanthanide luminescence

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M. Nilüfer Yarasir (Department of Chemistry, Sakarya University, Sakarya, Turkey), Orhan Güney, M. Nilüfer Yarasir

Covalent Immobilization of a Fluorescent Metal-Sensitive Ptholocyanine Dye in Sol–Gel Films

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M. Nilüfer Yarasir (Department of Chemistry, Sakarya University, Sakarya, Turkey), Orhan Güney, Mehmet Kandaz

Valuable Metal-Ion Selective Binding Properties of Chemosensor Phthalocyanines

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Weihua Zhu (School of Chemistry and Chemical Engineering, Zhenjiang, China), Xu Liang, Minzhi Li, John Mack, Nagao Kobayashi

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Weihua Zhu (School of Chemistry and Chemical Engineering, Zhenjiang, China), Minzhi Li, Li Xu, Xu Liang

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

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Nina Novikova (The University of Auckland, School of Chemical Sciences, Auckland, New Zealand), Cather M. Simpson, Penelope J. Brothers

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Aaron Tay (School of Chemical Sciences, University of Auckland, Auckland, New Zealand), Penelope J. Brothers, David C. Ware

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S14 Porphyrin- and Phthalocyanine-based Nanomaterials for Energy Conversion, Storage and Catalysis

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Thomas Biellmann (Laboratoire CLAC, Institut de Chimie, UMR 7177, CNRS, Université de Strasbourg, Strasbourg, France), Jennifer Wytko, Jean Weiss

Poprhyrin-tetrakis Dithenylethene Scaffolds: Synthesis and Optical Switching Properties

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Georgios Charalambidis (Chemistry Department, University of Crete, Heraklion, Greece), Evangelos Georgilis, Anna Mitraki, Teodor Silviu Balaban, Athanassios G. Coutsolelos

Formation of Self-assembled Artificial Antenna Nanostructures based on Diphenylalanine–Porphyrin Derivatives

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Minyuan Chen (School of Chemistry and Chemical Engineering, Jiangsu University, China), Lina Ye, Weijie Xu, Yuanyuan Fang, Zhongping Ou, Yang Song, Karl Kadish

Nonplanar cobalt tetrabutano- and tetrabenzo-tetraaryl- porphyrins: Synthesis, electrochemistry and catalytic activity for reduction of molecular oxygen in acid media

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Lianqing Chen (College of Chemistry and Material Science, South-Central University for Nationalities, Wuhan, China)

Nitrogen and sulfur co-doped anatase-phase TiO_2 hollow boxes with enhancing visible photocatalytic performance

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Sébastien Clément (Institut Charles Gerhardt, Montpellier, France)

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Claude Gros (Université de Bourgogne Franche-Comté, ICMUB (UMR CNRS 6302), Dijon, France), Nicolas Desbois, Haijun Xu, Adam Langlois, Paul-Ludovic Karsenti, Pierre D. Harvey

Energy transfers in donor-acceptor dyads built upon a truxene core

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Tingting Huang (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Xu Liang, Junxia Wen, Minzhi Li, Weihua Zhu

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Hua-Wei Jiang (Department of Chemistry, Oxford, United Kingdom)

Porphyrin Nanorings for Quantum Interference

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Chang Young Jung (Department of Organic and Nano engineering, Hanyang University, Seoul, Korea), Jong Min Park, Joong Hyun Cho, Dae Hyun Kim

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Christophe Kahlfuss (Université de Strasbourg, Strasbourg, France), Jennifer Wytko, Renaud Cornut, Bruno Jousselme, Stéphane Campidelli, Jean Weiss

Strapped porphyrins functionalized MWNTs for photoconversion and electrocatalysis

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Patricia Löser (University of Kassel, Institute of Chemistry, Kassel, Germany), Rüdiger Faust

Fluorinated asymmetric porphyrazines for resistant photocatalytically active hybrid nanoparticles

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Zhongping OU (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Jijun Tang, Rui Guo, Yuanyuan Fang, Dong Huang, Jing Zhang, Jiaoxia Zhang, Song Guo, Fredrick M. McFarland, Yang Song, Karl M. Kadish

Functionalized cobalt triarylcorrole covalently bonded with graphene oxide: highly efficient electrocatalyst for oxygen reduction reaction in alkaline media

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Haijun Xu (College of Chemical Engineering, Nanjing Forestry University, Nanjing, China)

The synthesis of multichromophores based on a truxene

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Changjun Yang (South-Central University For Nationalities, Wuhan, China), Bingguang Zhang, Lanchang Gao, Kejian Deng

Self-assembled metal thioporphyrazine nanomicrospheres and their photocatalytic activity

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Xia Zuo (Department of Chemistry, Beijing, China)

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S16 Covalent and Noncovalent Assembly of Porphyrins on DNA

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Stephane Campidelli (Laboratoire d'Innovation en Chimie des Surfaces et Nanosciences, Gif sur Yvette, France), Gregory Chatelain, Christine Saint-Pierre, Didier Garsaprutto

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Miroslav Miletin (Charles University in Prague, Faculty of Pharmacy Hradec Kralove, Hradec Kralove, Czech Republic), Veronika Novakova, Petr Zimcik

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Minfeng Qin (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Xu Liang, Minzhi Li, Weihua Zhu

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Ojodomo Achadu (Chemistry, Rhodes, Grahamstown, South Africa), Tebello Nyokong

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Xiaofei Chen (Chemistry Department, The Chinese University of Hong Kong, Hong Kong, China), Dennis Kee Pui Ng

Push-Pull Phthalocyanine-Based Photosensitizers for Dye-Sensitized Solar Cells

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Gülay Gümüb (Tübitak Marmara Research Center, Materials Institute, Kocaeli, Turkey), Dilek Erbahar, Zafer en, Emel Musluoglu, Mika Harbeck

Hexafluoro isopropyl substituted phthalocyanines for selective detection of VOCs with chemical sensors

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Ilke Gurol (Tubitak Marmara Research Center Materials Inst., Kocaeli, Turkey), Ayse Gul Gurek, Faruk Oytun, Fevzihan Basarir, Esma Sezer, Esra Ozkan zayim, Cihat Tasaltin

A novel bioelectrochemical sensing platform based on LBL assembly of cobalt phthalocyanines with amine modified MWCNT.

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Jaemoon Lee (Materials Science and Engineering, Seoul National University, Seoul, Korea), Sim Bum Yuk, Sang-a Choi, Se Hun Kim

Correlation Between Structure of Zn Phthalocyanine and Redox Stability for Solar Water Splitting Cell

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Jaemoon Lee (Materials Science and Engineering, Seoul , Korea), Sim Bum Yuk, Sang-a Choi, Jin Woong Namgoong

Synthesis of highly dispersed cationic phthalocyanine dyes for improving transmittance of LCD green color filter

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Lukas Lochman (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Kralove, Charles University in Prague, Hradec Kralove, Czech Republic), Veronika Novakova, Petr Zimcik, Sergey Borisov

Optical Carbon Dioxide Sensors Based on Azaphthalocyanine Indicators

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Jinwoong Namgoong (Material Science and Engineering, Seoul National University, Seoul, Korea), Sei-won Chung, Jae Moon Lee, Se Hun Kim

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Chihiro Nanjo (Nagoya University, Nagoya, Japan), Michio M. Matsushita, Kunio Awaga

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Gülenay Tunç (Gebze Technical University, Kocaeli, Turkey)

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Mehnaaz F. Ali (Department of Chemistry Xavier University of Louisiana, New Orleans, USA), Justin A. Grennell

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Nivedita Chaudhri (Indian Institute of Technology Roorkee, Roorkee, India), Ravi Kumar, Mandeep K. Chahal, Muniappan Sankar

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Nitika Grover (Indian Institute of Technology Roorkee, Roorkee, India), Muniappan Sankar

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Catherine Hirel (Gebze Teknik Üniversitesi, Temel Bilimler Fakültesi Kimya Bölümü, Gebze Kocaeli, Turkey), Emel Önal, Stephan Saß, Jeanne Hurpi, Sevinç Zehra Topal, Kadriye Ertekin, Michael Kumke

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Mario L. Naitana (ICMUB-P2DA (UMR CNRS 6302), Université de Bourgogne Sciences et Techniques, Dijon cedex, France), Claude P. Gros, Valentin Quesneau, Nicolas Desbois, Stéphane Brandès, Meddy Vanotti, Virginie Blondeau-Patissier, Sylvain Ballandras

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Mengliang Zhu (Department of Chemistry, University of Science and Technology Beijing, Beijing, China), Yabin Zhou, Liguo Yang, Lin Li, Dongdong Qi, Ming Bai, Yuting Chen, Hongwu Du, Yongzhong Bian

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Wubiao Duan (Department of Chemistry, School of Science, Beijing Jiaotong University, Beijing, China), Qingdao Zeng, Siqi Zhang

Supramolecular Assembly of Zinc Protoporphyrin Studied by Scanning Tunneling Microscopy

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Jiwon Seo (Department of Chemistry, Gwangju Institute of Science and Technology, Gwangju, Korea), Boyeong Kang, Woojin Yang

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S22 Antimicrobial Photodynamic Therapy

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Quan Zhang (Department of Textile & Clothing Jiangnan University, Wuxi, China), Yaxuan Dai, Jiancheng Dong, Qingqing Wang

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S23 Hydrosoluble Porphyrin Derivatives for Medical/Biological Applications

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Nicolas Desbois (Université de Bourgogne Franche-Comté, ICMUB (UMR CNRS 6302), Dijon, France), Clément Michelin, Sandrine Pacquelet, Claude P. Gros

Synthetic strategy for preparation of corrole or porphyrin DOTA complexes as potential bimodal contrast agents in medical imaging

S23-P-002

Nicolas Desbois (Université de Bourgogne Franche-Comté, ICMUB (UMR CNRS 6302), Dijon, France), Aurélien Laguerre, Yi Chang, Hai-Jun Xu, David Monchaud, Claude P. Gros

Design of porphyrins as G-quadruplex ligands

S23-P-003

Michael Luciano (University of Connecticut, Storrs, USA), Mohsen Erfanzadeh, Feifei Zhou, Quing Zhu, Christian Brückner

Water-Soluble Quinoline-Annulated Porphyrins as Contrast Agents for Photoacoustic Cancer Imaging

S24 Phthalocyanine Materials for PDT

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Vefa Ahsen (Gebze Technical University, Kocaeli, Turkey), Serkan Alpugan, Deniz Kutlu Tarakci, Chiara Mauriello Jimenez, Magali Gary-Bobo, Marie Maynadier, Marcel Garcia, Laurence Raehm, Fabienne Dumoulin, Jean-Olivier Durand

First Developments of Phthalocyanine-Based Bridged Silsesquioxane Nanoparticles

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Joana Ferreira (Departamento de Química Organica, Facultad de Ciencias, Universidad Autónoma de Madrid, Madrid, Spain), M. Salomé Rodriguez-Morgade, João Tomé, Tomás Torres

Ruthenium Phthalocyanines as potential photosensitizers for singlet oxygen generation

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Shenghua Han (Department of Chemistry, Hong Kong, China), Dennis Kee Pui Ng, Fang He

Development of Activatable Nano Photosensitizers Based on Phthalocyanines and Cubic Polyhedral Oligomeric Silsesquioxanes

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Jan Kollar (Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Králové, Charles University in Prague, Hradec Králové, Czech Republic), Miloslav Machacek, Miroslav Miletin, Veronika Novakova, Petr Zimcik

Synthesis of anionic tetrapyrazinoporphyrazine as photosensitizer for photodynamic therapy

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Eveline van de Winckel (Universidad Autónoma de Madrid, Madrid, Spain), Rudolf Schneider, Andres de la Escosura, Tomas Torres

Multifunctional Logic in a Photosensitizer with Triple-Mode Fluorescent and Photodynamic Activity

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Chi-Hang Wong (The Chinese University of Hong Kong, Hong Kong, China), Shuirui Zhao, Dennis K. P. Ng, Pui-Chi Lo

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S26 Targeting in PDT: the Different Strategies

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Elizabeth Okoth (Louisiana State University, Baton Rouge, USA), Benson Ongarora, Zehua Zhou, Michael Mathis, Graca Vicente

Synthesis of a Mono-substituted Phthalocyanine Conjugated to Monoclonal Antibody for Targeted Therapy

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Vincent Sol (University of Limoges, Laboratory of Chemistry of Natural Substances, Limoges, France), Nicolas Drogat, Frédérique Brégier, Shihong Qui, Gautier Ndong Ntoutoume, Jean-Pierre Mabkidi, Chloë Fidanzi-Dugas, Youness Limani, Fabrice Lalloué, Claude Couquet, Gaelle Bégaud-Grimaud, Caroline Le Morvan, David Yannick Léger, Bertrand Liagre, Vincent Chaleix, Robert Granet

Chlorin-p6/PEI - Cellulose Nanocrystal Hybrids: *in vivo* Evaluation as New Potential Anticancer Agents for Application in Photodynamic Therapy

S26-P-003

Vincent Sol (University of Limoges, Laboratory of Chemistry of Natural Substances, Limoges, France), Chloë Fidanzi-Dugas, Bertrand Liagre, Guillaume Chemin, Aurélie Perraud, Claire Carrion, Robert Granet, David Yannick Léger

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S28 Porphyrin-Based Compounds for Cancer-Imaging and Therapy - a Translational Approach

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Suk Ho Hong (Molecular Imaging and Therapy Branch, National Cancer Center, Goyang, Korea)

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Han Sol Im (Materials Chemistry and Engineering, Konkuk University, Seoul, Korea)

Synthesis and characterizations of polyamide-porphyrin hybrids

S28-P-003

Hyo-Geun Jeong (Materials Chemistry and Engineering, Konkuk University, Seoul, Korea)

Porphyrin photosensitizers having hydrophilic and/or hydrophobic substituents

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Joseph Keca (Leslie Dan Faculty of Pharmacy, Department of Pharmaceutical Sciences, University of Toronto, M5S 3M2, Canada, Toronto, Canada), Gang Zheng

Unleashing the Metal Chelation Capability of the Texaphyrins through the Synthesis and Nanoassembly of Texaphyrin-Phospholipid Building Blocks

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Won Kim (Materials Chemistry and Engineering, Konkuk University, Seoul, Korea)

Synthesis and photophysical property of π-extended porphyrins modified with hetero thiophene units

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Nagahiko Yumita (Yokohama University of Pharmacy, Yokohama, Japan), Yumiko Iwase, Kojo Nishi, Takahiro Watanabe, Junya Fujimori, Toshio Fukai, Hiroyuki Kuwahara, Shin-ichiro Umemura

Sonodynamically Induced Apoptosis by 5-Aminolevulinic acid

S28-P-007

Zheng Zheng (Laboratoire de Chimie de l'Ecole Normale Supérieure de Lyon, Lyon, France), Yann Bretonnière, Chantal Andraud

Design of Two-Photon Absorbing Probes for the *In-Vivo* Monitoring of Oxygen Pressure

S28-P-008

Zehua Zhou (Department of Chemistry, Louisiana State University, Baton Rouge, USA), Waruna Jinadasa, Graça Vicente, Kevin Smith

Cellular uptake and cytotoxicity of di-aspartate and aspartate-lysine chlorin e6 conjugates

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S29 Nanotechnology in Delivering PDT Agents to Tumors

S29-P-001

Ilche Gjuroski (Department for Chemistry and Biochemistry- University of Bern, Bern, Switzerland), Marianne Hädener, Gaëlle Diserens, Peter Vermathen, Julien Furrer, Martina Vermathen

^{1}H HR-MAS NMR Based Metabolic Profiling of Cells in Response to Treatment with Chlorin-Polymer Systems

S29-P-002

Eun Seon Kang (Photodynamic Therapy Institute, School of Nanosciene and Engineering, Inje University, Gimhae, Gyeongnam, Korea), Il Yoon, Young Key Shim

Covalent and Non-covalent Bonded Chlorin Derivatives on Graphene Oxide Nanosheets for Photodynamic Therapy

S29-P-003

Naoki Komatsu (Kyoto University, Kyoto, Japan), Gang Liu, Hongmei Qin

Direct Fabrication of the Graphene-Based Composite for CancerPhototherapy through Graphite Exfoliation with a Photosensitizer

S29-P-004

Oriol Planas (Institut Químic de Sarrià, Universitat Ramon Llull, Barcelona, Spain), Beatriz Rodriguez-Amigo, Ester Boix-Garriga, Ruben Ruiz-Gonzalez, Monsterrat Agut, Santi Nonell

Porphyrinoid-based bio- and nanodevices for theranostic applications

S29-P-005

Lukasz Sobotta (Poznan University of Medical Sciences, Poznan, Poland), Paulina Skupin-Mrugalska, Beata Wereszczynska, Alicja Warowicka, Tomasz Zalewski, Marcin Jarek, Jadwiga Mielcarek, Jacek Gapinski, Stefan Jurga

Liposome Bearing Zinc Phthalocyanine and Gadolinium Ions for Magnetic Resonance Imaging and Phodynamic Therapy

S30 Basic and Clinical Research in PDT

S30-P-001

Guotian Luo (College of Chemistry and Chemical Engineering, Gannan Normal University, Ganzhou, China), Jun Xue, Ling Xiao, Minghua Huang

Design, synthesis and optical properties of novel tailed tripeptide porphyrin

S30-P-002

Miloslav Machacek (Department of Biochemical Sciences, Faculty of Pharmacy in Hradec Kralove, Charles University in Prague, Hradec Kralove, Czech Republic), Veronika Novakova, Jan Kollar, Pavel Cermak, Petr Zimcik, Tomas Simunek

Photodynamic Activity of Non aggregating cationic and anionic Phthalocyanines and Azaphthalocyanines

S30-P-003

Muthumuni Managa (Department of Chemistry Rhodes University, Grahamstown, South Africa), Jonathan Britton, Earl Prinsloo, Tebello Nyokong

The Effect of Pluronic Silica Nanoparticles on the Photophysical Properties and Photodynamic Therapy Activity of Mono Substituted Metallated Porphyrin

S31 Electron Transfer Applications of Tetrapyrroles

S31-P-001

Malcolm Bartlett (Philipps-Universität Marburg, Marburg, Germany), Michael Kothe, Jörg Sundermeyer, Gregor Witte

Equitorial Thioester Anchor – Towards Ordered Phthalocyanine Monolayers on Au(111)

S31-P-002

Verena Engelhardt (University of Kassel and CINSaT - Center for Interdisciplinary Nanostructure Science and Technology, Kassel, Germany), Bingzhe Wang, Dirk Guldi, Rüdiger Faust

Tetrapyrazinoporphyrazines as Photoelectron-Acceptors in noncovalent Assemblies to Graphene

S33 Catalytic Chemical Transformations by Metalloporphyrins

S33-P-001

Cancheng Guo (Chemistry College, Hunan University, Changsha, China), Weiping Luo, Qiang Liu, Xin Guo

Industrial-scale syntheses of porphines & metalloporphyrins

S33-P-002

Tingting Huang (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Xu Liang, Yu Jiang, Minzhi Li, Minzhi Li

The First Example of Electrocatalyzed Full Dechlorination of DDT electrocatalyzed by Lipophilic Co(II)Pc

S33-P-003

Patrycja Kielb (Technische Universität, Berlin, Germany), Khoa Hoang Ly, Pierre Wrzolek, Matthias Schwalbe, Inez M. Weidinger

Resonance Raman investigations on cobalt hangman porphyrins during electrocatalytic hydrogen formation

S33-P-004

Muniappan Sankar (Indian Institute of Technology Roorkee, Roorkee, India), Ravi Kumar

β-Octachlorovanadylporphyrin as Highly Efficient and Selective Epoxidation Catalyst for Olefins

S34 Porphyrinoids for Dye-Sensitized and Bulk Heterojunction Organic Solar Cells

S34-P-001

Verena Engelhardt (University of Kassel and CINSaT - Center for Interdisciplinary Nanostructure Science and Technology, Kassel, Germany), Rüdiger Faust

Influence of peripheral BODIPY-Substituents on the Solar Cell Performance of Porphyrazines

S34-P-002

Claude P. Gros (Université de Bourgogne Franche-Comté, ICMUB (UMR CNRS 6302), Dijon, France), Léo Bucher, Nicolas Desbois, Pierre D. Harvey

Low gap conjugated polymeric materials doped with porphyrins for organic solar cells

S34-P-003

Mehmet Kandaz (Chemistry, Sakarya, Turkey), Emre Güzel, Armagan Günsel, M. Salome Rodriguez Morgade, Tomas Torres

A Push–Pull Unsymmetrical Porphyrazine/Phthalocyanine Hybrids for Solar Cells

S34-P-004

Masashi Ohmori (Osaka University, Suita, Japan), Takashi Uno, Chika Nakano, Akihiko Fujii, Masanori Ozaki

Fabrication of Single Crystalline Thin Film of Non-Peripheral Hexyl-Substituted Phthalocyanine and Its Crystal Structure Analysis with Grazing Incidence Wide-Angle X-ray Scattering Method

S34-P-005

Rajesh Pudi (Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain), Werther Cambarau, Lydia Cabau, Cristina Rodriguez, Anton Vidal Ferran, Pablo Ballester

Synthesis and Exploitation of MetalloPorphyrins Organic Photovoltaic Devices (OPV)

S34-P-006

Yuto Tamura (Graduate School of Material Science, Nara Institute of Science and Technology, Ikoma, Japan), Daiki Kuzuhara, Mitsuharu Suzuki, Hiroko Yamada

Fullerene Linked Benzoporphyrins for Solution-Processed Organic Photovoltaic Material

S35 Towards Two Dimensional Tetrapyrrole Nanostructures

S35-P-001

Jeyarman Sankar (Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, India), Ruchika Mishra, Ramprasad Regar

Symmetrical and Unsymmetrical Porphyrin-Perylenebisimide Donor-Acceptor Molecular Dyads

S36 Photo- and Electro-Catalytic Processes

S36-P-001

Lianqing Chen (College of Chemistry and Material Science, South-central University for Nationalities, Wuhan, China), Quan Zhou, Shuai Xu, Changjun Yang, Kejian Deng

Modulation of Peripheral Substituents of Cobalt Thioporphyrazines and their Photocatalytic Activity

S36-P-002

Xu Liang (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Xu Liang, Minzhi Li, Yu Jiang, Weihua Zhu

Halogenated A_2B type Co(III)corroles: Synthesis, Properties and Modulation Hydrogen Evolution Reactions

S36-P-003

Xu Liang (School of Chemistry and Chemical Engieering, Jiangsu University, Zhenjiang, China), Xu Liang, Yu Jiang, Minzhi Li, Weihua Zhu

Facile Modulation the Hydrogen Evolutions by A_2B Type Cu(III)Corroles Containing Different Fluoro-Atoms

S36-P-004

Junxia Wen (School of Chemistry and Chemical Engineering, Jiangsu University, Zhenjiang, China), Xu Liang, Tingting Huang, Minzhi Li, Weihua Zhu

Effect of Chemical Environmental on the Electroreductive Dechlorination of Toxic Lindane

S36-P-005

Tiefeng Xu (College of Materials and Textiles, Zhejiang Sci-Tech University, Hangzhou, China), Dongjing Ni, Xia Chen, Fei Wu, Wangyang Lu, Hongguang Hu, Zhexin Zhu, Wenxing Chen

Self-floating Graphitic Carbon Nitride/Zinc Phthalocyanine Nanofibers for Photocatalytic Degradation of Contaminants in High Bankgrounds of Complicated Constituents

S37 Heme Proteins and Analogues

S37-P-001

Hans Henning Brewitz (University of Bonn Pharmaceutical Institute, Bonn, Germany), Nishit Goradia, Erik Schubert, Kerstin Galler, Toni Kühl, Ute Neugebauer, Jürgen Popp, Gregor Hagelüken, Olav Schiemann, Oliver Ohlenschläger, Diana Imhof

Spectroscopic Insights into Transient Heme-Binding to Histidine- and Tyrosine-Based Protein Motifs

S37-P-002

Amelie Wißbrock (Pharmaceutical Chemistry, Pharmaceutical Institute, University of Bonn, Bonn, Germany), Toni Kühl, Oliver Ohlenschläger, Diana Imhof

Peroxidase Activity of the Abeta-Heme Complex and Other Heme Binding Peptides

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S39 Vitamin B12: Crossing all Borders

S39-P-001

Maciej Giedyk (Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland), Katarzyna Goliszewska, Marcin Marculewicz, Sandra Lepak, Dorota Gryko

Vitamin B12 – a Unique Cobalt Catalyst

S39-P-002

Maksymilian Karczewski (Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland), Michał Ociepa, Dorota Gryko, Ebba Nexø

When loop becomes tail - base-off cobalamin

S39-P-003

Zhongli Luo (Department of Chemistry and Biochemistry, Fukuoka, Japan), Hisashi Shimakoshi

A New Electrochemical Molecular Transformation of Halogenated Pollutants Catalyzed by B_{12} Model Complex

S39-P-004

Toshikazu Ono (Depertment of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan), Kosuke Wakiya, Hossain M. Jakir, Yoshio Hisaeda

Electrochemical Fluoroalkylation of Organic Compounds Catalyzed by Vitamin B_{12} Derivative

S39-P-005

Aleksandra Wierzba (Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland), M. Chrominski, Agnieszka Jackowska, Rashid Nazir, Dorota Gryko

Conjugable Vitamin B_{12} Derivatives

S40 Heme Enzymes: Structure and Function

S40-P-001

Erwin Abucayon (Chemistry and Biochemistry, Norman, USA), Rahul Khade, Yong Zhang, George Richter-Addo

Nitroxyl (HNO) Derivatives via Hydride Attack at the Coordinated Nitrosyls in Ferric Porphyrins

S40-P-002

Samantha Powell (University of Oklahoma, Norman, USA), Bing Wang, Guan Ye, Daniel M. Copeland, George B. Richter-Addo

Inhibition of Heme Protein Function by Nitrosoarene/alkane Coordination

S40-P-003

Christine Joy Querebillo (Institute of Chemistry, Berlin, Germany), Hoang Khoa Ly, Kerstin Fiege, Nicole Frankenberg-Dinkel, Inez Weidinger, Peter Hildebrandt

Vibrational spectroscopy to study the heme-redox sensory kinase MA4561

S41 Biochemistry of Linear Tetrapyrroles

S41-P-001

Bao-Qing Zhao (Huazhong Agricultural University, Wuhan, China), Qian-Zhao Xu, Lu Lu, Pan-Pan Peng, Dan Miao, Wen-Long Ding, Ming Zhou, Hugo Scheer, Kai-Hong Zhao

Chromophorylation of subunits A and B of allophycocyanin from *Chroococcidiopsis thermalis* sp. PCC7203

S42 Natural Porphyrinoid Pigments: Synthesis, Structure and Biological Function

S42-P-001

Yusuke Kamatani (Ritsumeikan University, Kusatsu, Japan), Ayaka Wada, Hitoshi Tamiaki

Acid and Base Sensitivities of Synthetic Zinc Chlorophyll Derivatives Bearing a Pyridyl Group

S42-P-002

Hitoshi Tamiaki (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Kifa Kim, Shin-ichi Sasaki

Synthesis of Chlorophyll Derivatives Possessing a Sulfanyl, Sulfinyl or Sulfonyl Substituent at the 3^1-Position and Their Optical Properties

S42-P-003

Hitoshi Tamiaki (Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan), Hiroaki Watanabe, Tadashi Mizoguchi

Self-Aggregation of Bacteriochlorophyll-*d* Amino-Analogs in an Aqueous Micelle Solution

S44 Computational Advances in Porphyrin and Phthalocyanine Chemistry

S44-P-001

Angela Rosa (Dipartimento di Scienze, Università della Basilicata, Potenza, Italy), Giampaolo Ricciardi, Evert Jan Baerends

Charge Effects on the Reactivity of Polycationic Compound I and Compound II Mimics: a DFT Analysis

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S45 Theory and Spectroscopy

S45-P-001

Hung Doan (Physics & Astronomy Department, Texas Christian University, Fort Worth, USA), Sergei Dzyuba, Zygmunt Gryczynski, Sangram Raut, Milan Balaz, David Yale

Mechanothermal control of the conformation of a small molecule

S45-P-002

Giampaolo Ricciardi (Scuola di Scienze Agrarie, Forestali, Alimentari ed Ambientali (SAFE) Università della Basilicata, Potenza, Italy), Daniela Pietrangeli, Alexandra V. Soldatova, Daniele Casarini, Angela Rosa

Effects of the Flexibility of Alkylthio Substituents on the Photophysical Properties of Porphyrazines

S45-P-003

Martin Stillman (Stillman Bioinorganic Group, Department of Chemistry, The University of Western Ontario, London, Canada), Angel (Qi Wen) Zhang, Satoshi Yamamoto, Lydia Kwan, Nagao Kobayashi, Mutsumi Kimura

Computational and Spectroscopic Studies in the Design of Novel Porphyrins for Solar Cell Applications

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