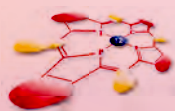


PROFESSOR OF MATHEMATICS



TWELFTH INTERNATIONAL CONFERENCE
ON PORPHYRINS AND PHTHALOCYANINES



ICPP-12

10-15 JULY 2022 MADRID - SPAIN

SCIENTIFIC PROGRAM

ICPP-SPP.ORG

ICPP-12 Overall Weekly Schedule

	Sunday 10 July	Monday 11 July	Tuesday 12 July	Wednesday 13 July	Thursday 14 July	Friday 15 July
08:30						
08:45						
09:00						
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22:00						

Registration
13:00 - 18:00

Welcome Reception
19:00 - 21:00

Opening Ceremony
09:00 - 09:30

LIFETIME ACHIEVEMENT
Award Lecture
Dirk Guldí
09:30 - 10:30

Coffee Break
10:30 - 11:00

Symposia
2a | 22a | 16a | 7 | 27a
11:00 - 13:00

Lunch Break
13:00 - 14:30

Symposia
2b | 22b | 16b | 10a | 27b
14:30 - 16:30

Coffee Break
16:30 - 17:00

Symposia
2c | 22c | 16c | 10b | 28
17:00 - 19:00

LIFETIME ACHIEVEMENT
Award Lecture
Abhik Ghosh
09:00 - 10:00

Coffee Break
10:00 - 10:30

Symposia
9a | 5 | 12 | 21 | 24a
10:30 - 12:30

Lunch Break
12:30 - 14:00

Symposia
9b | 4 | 14 | 19 | 24b
14:00 - 16:00

Coffee Break
16:00 - 16:30

Contributed Orals
16:30 - 18:30

Posters s01-s11
18:30 - 20:30

YOUNG INVESTIGATOR
Award Lectures
Takayuki Tanaka
Masatoshi Ishida
Taniyuki Furuyama
Veronika Novakova
08:30 - 10:30

Group Photo
10:30 - 11:00

distribution of Lunch Boxes
11:30 - 12:00

Excursion
Tour 1: Toledo
12:00 - 18:00
Tour 2: Madrid
12:30 - 18:00

Tribute to F. Ann Walker 08:45

LIFETIME ACHIEVEMENT
Award Lecture
Giulietta Smulevich
09:00 - 10:00

Coffee Break
10:00 - 10:30

Symposia
1a | 6a | 13a | 17a | 25
10:30 - 12:30

Lunch Break
12:30 - 14:00

Symposia
1b | 6b | 13b | 17b | 26
14:00 - 16:00

Coffee Break
16:00 - 16:30

Contributed Orals
16:30 - 17:30

Posters s12-s28
17:30 - 19:30

departure : Gala venue
20:00

Gala Dinner
Madrid
20:30 - 00:30

LIFETIME ACHIEVEMENT
Award Lecture
Michael Therien
09:00 - 10:00

Coffee Break
10:00 - 10:30

Symposia
3a | 11 | 15a | 18 | 23a
10:30 - 12:30

Lunch Break
12:30 - 14:00

Symposia
3b | 8 | 15b | 20 | 23b
14:00 - 16:00

Coffee Break
16:00 - 16:30

Closing Ceremony
16:30 - 17:00



ICPP-12 MADRID

TWELFTH INTERNATIONAL CONFERENCE
ON PORPHYRINS AND PHTHALOCYANINES

SPAIN 10-15 JULY 2022

Scope of the Conference

All aspects of porphyrins, phthalocyanines and related macrocycles will be discussed in the form of invited lectures, orals and poster presentations over the full five-day period of the meeting. Four scientists will be honored by Lifetime Achievement Awards in 2022 and four JPP/SPP Young Investigator Awards will also be presented at the meeting. All awards will be accompanied by highlighted award lectures.

Chairs

Tomás Torres

ICPP-12 Host, Chairman & Scientific Organizer. Universidad Autónoma de Madrid. tomas.torres@uam.es

M. Salomé Rodríguez-Morgade

ICPP-12 Co-chair & Co-organizer. Universidad Autónoma de Madrid. salome.rodriguez@uam.es

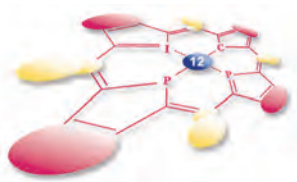
ICPP-12 Spanish National Committee

Tomás Torres - M. Salomé Rodríguez-Morgade - Ángela Sastre-Santos - Gema de la Torre - Santi Nonell
M. Victoria Martínez-Díaz - Fernando Fernández-Lázaro - Giovanni Bottari - David González-Rodríguez - Andrés de la Escosura -
Miguel García Iglesias - David Sánchez-García

Organized by

Society of Porphyrins and Phthalocyanines (SPP)

Karl M. Kadish - SPP Office Houston : icpp@uh.edu & **Matthew Padgett** - SPP Office Dijon : icpp@spp-jpp.org



ICPP-12 website : <http://www.icpp-spp.org>

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

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Society of Porphyrins & Phthalocyanines | Journal of Porphyrins and Phthalocyanines
SPP Office | ICMUB | Université Bourgogne Franche Comté
9 avenue Alain Savary. BP 47870
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ICPP-12 MADRID

TWELFTH INTERNATIONAL CONFERENCE
ON PORPHYRINS AND PHTHALOCYANINES

SPAIN 10-15 JULY 2022

Scientific Program

Overall Weekly Schedule	Inside Front Cover
Front matter	i-iv
Sunday July 10, 2022 - PM.	1
Monday July 11, 2022 - AM.	2
Monday July 11, 2022 - PM.	8
Tuesday July 12, 2022 - AM.	18
Tuesday July 12, 2022 - PM.	24
Wednesday July 13, 2022 - AM	34
Thursday July 14, 2022 - AM	35
Thursday July 14, 2022 - PM	41
Friday July 15, 2022 - AM	48
Friday July 15, 2022 - PM	54
Poster Program.	59
Poster Session I - Tuesday July 12, 2022 - PM	61
Poster Session II - Thursday July 14, 2022 - PM	71
Participants by Countries.	83
Author Index	87
Conference Centre Map	
Registration & Hotel check-in.	1
Fourth floor	98
Third floor	99
Symposia List	Inside Back Cover
Specialized Symposia Schedule	Back Cover

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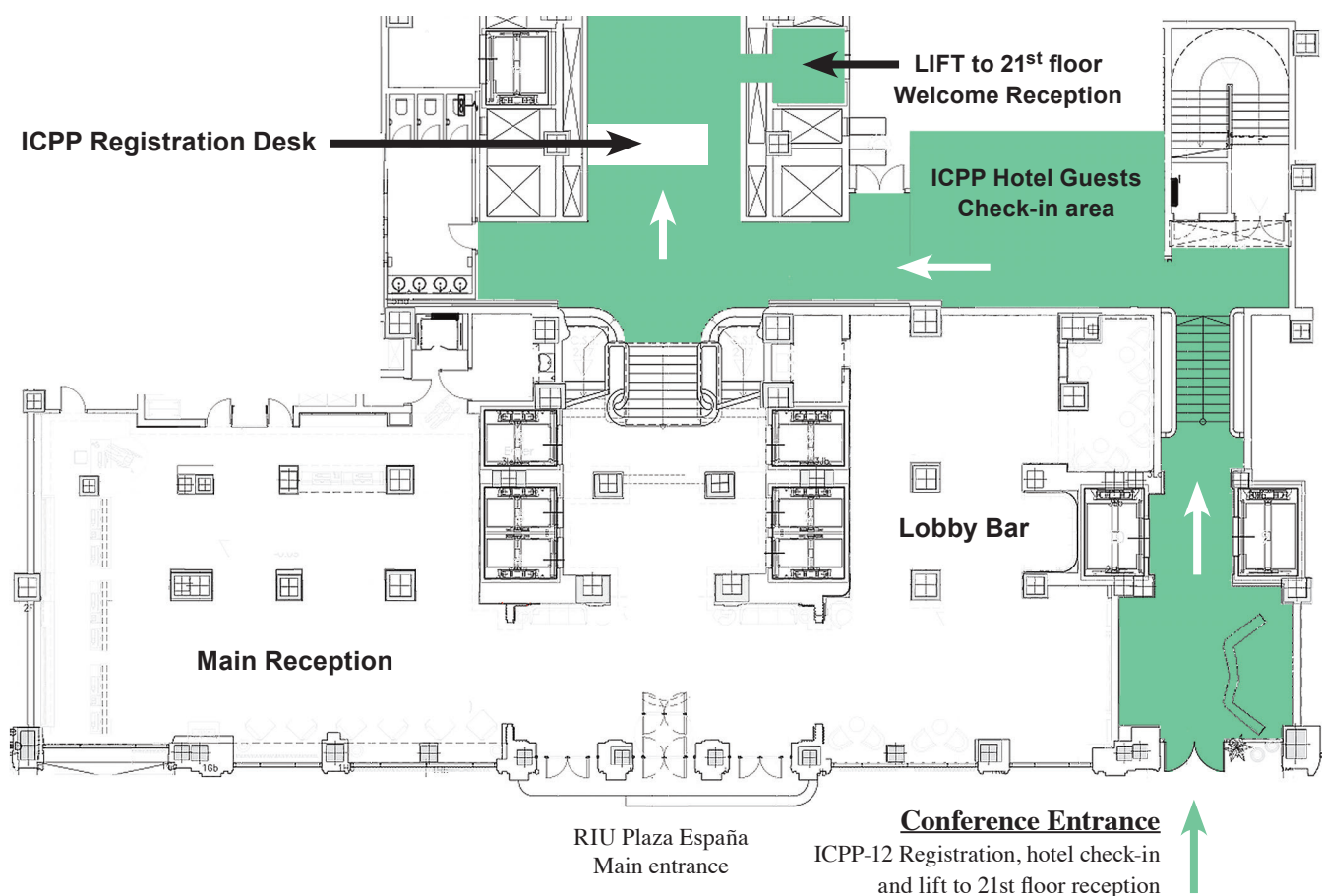
Sunday, July 10, 2022, PM

Conference Registration

Room "La Latina"

13:00 to 18:00

RIU Plaza España Hotel and Conference Center. C/ Gran Vía, 84, 28013 Madrid, Spain



Welcome Reception

Terrace - 21st floor

19:00 to 21:00

RIU Plaza España Hotel and Conference Center. C/ Gran Vía, 84, 28013 Madrid, Spain

Monday, July 11, 2022, AM

Opening Ceremony

Room "Madrid 1-3"

09:00 to 09:30

Karl M. Kadish, President SPP & Meeting Co-Organizer

Tomás Torres, Host & Meeting Co-Organizer

M. Salomé Rodríguez-Morgade, Meeting Co-Organizer

Award Lecture - Lifetime Achievement

Room "Madrid 1-3"



09:30 to 10:30 **Award Lecture**

Laudatio: Jonathan L. Sessler

Dirk M. Guldi (Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials, Erlangen, Germany)

Porphyrinoid-Based Charge and Photon Management

- **Linstead Career Award in Phthalocyanine Chemistry**

10:30 to 11:00

Coffee Break (3rd Floor)

S02 New phthalocyanines and related porphyrinoids – Synthesis and properties

Room "Madrid 1-3"

Chaired by: Andrew Cammidge, Gema de la Torre, Tomás Torres & Miguel García-Iglesias

11:00 to 11:20

Jonathan Lindsey (*Chemistry, Raleigh, USA*), Khiem Chau Nguyen, Kathy-Uyen Nguyen, Duy Chung
Toward the *De Novo* Synthesis of (Bacterio)chlorophylls

11:20 to 11:40

Angela Sastre-Santos (*Universidad Miguel Hernández de Elche, Elche, Spain*), Adrián Herrero, Desiré Molina, Jorge Follana-Berná, Lydia Ferrer, Javier Ortiz
Synthesis of Phthalocyanines as Efficient Hole Transporting Materials in Perovskite Solar Cells

11:40 to 12:00

Janarthanan Jayawickramarajah (*Department of Chemistry, New Orleans, USA*), Mohammed Zarandi, Dilanka Walpita Kankanamalage
DNA-Fluorophore Conjugates: G-Quadruplex Based FRET Antenna Systems and Biomolecule Sensors

12:00 to 12:20

Mikhail K. Islyaikin (*Ivanovo State University of Chemistry and Technology, G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia*), Evgenii N. Ivanov, Oskar I. Koifman, Dmitri V. Konarev, Tomás Torres
Hemihexaphyrazines. Unusual Coordination Abilities of Six-members Porphyrinoids

12:20 to 12:40

Dieter Wöhrle (*University Bremen, Bremen, Germany*), Günter Schnurpfeil, Sergey Makarov, David Steinebrunner, Sergey Ketkov, Arne Wittstock
Very Efficient Catalytic and Photocatalytic Oxidations with Phthalocyanines

S07 NIR-responsive porphyrinoids

Room "Cibeles / Puerta del Sol"

Chaired by: Yoshihiro Matano & Hiroko Yamada

11:00 to 11:20

Norihito Fukui (*Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya City, Japan*)

From NIR-responsive porphyrin arch-tapes to non-planar PBI derivatives and a NIR-responsive C₇₀-fragment

11:20 to 11:40

Janusz Dabrowski (*Faculty of Chemistry Jagiellonian University, Krakow, Poland*)

Photodynamic immunotherapy with bacteriochlorins: mechanisms and applications

11:40 to 12:00

Christian Brückner (*Department of Chemistry, University of Connecticut, Storrs, USA*)

Converting pyrroles in porphyrins to non-pyrrolic moieties: Going once, going twice, going thrice!

12:00 to 12:20

Tetsuo Okujima (*Ehime University, Matsuyama, Japan*)

A New Approach for Peripheral Annulation of Porphyrin: Synthesis of Unusual Phenathrene-fused Porphyrins

12:20 to 12:40

Barbara Ventura (*Istituto per la Sintesi Organica e la Fotoreattività (ISOF) – Consiglio Nazionale delle Ricerche (CNR), Bologna, Italy*)

Diketopyrrolopyrrole-porphyrin arrays as NIR emitters and NIR-activated photosensitizers

12:40 to 13:00

Takahiko Kojima (*Department of Chemistry, University of Tsukuba, Tsukuba, Japan*)

Highly efficient photocatalytic H₂ evolution using a diprotonated porphyrin as a NIR photosensitizer

13:00 to 13:10

Sunit Kumar (*Department of Organic Chemistry, Universidad Autónoma de Madrid (UAM), Madrid, Spain*), Marcin Stepień

Synthesis and studies of NIR-absorbing porphyrin-ryleneimide hybrids and donor–acceptor heterodimer via trifunctional complete self-sorting

MONDAY

S16 Porphyrinoids for catalytic reactions, including water splitting, CO₂ reduction and utilization

Room "Madrid 5"

Chaired by: Emma Gallo, Rui Cao & Mine Ince

11:00 to 11:20

Emma Gallo (*Università degli Studi di Milano, Milano, Italy*), Caterina Damiano, Paolo Sonzini, Matteo Cavalleri, Gabriele Manca

CO₂ Cycloaddition to Three-membered Rings Mediated by Porphyrin-based Catalysts

11:20 to 11:40

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

Identifying Intermediates in Electrocatalytic Water Oxidation with a Manganese Corrole Complex

11:40 to 12:00

Mine Ince (*Natural and Mathematical Science, Tarsus University, Mersin, Turkey*), Sifa Dogan, Emre Aslan, A. Celil Yüzer, Kasim Ocakoglu, Imren Hatay Patir

Subphthalocyanines for Photocatalytic Hydrogen Evolution

12:00 to 12:20

Lior Elbaz (*Chemistry/Bar-Ilan University, Ramat-Gan, Israel*), Noam Zion

Design of Aerogel-based Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells

12:20 to 12:40

Wonwoo Nam (*Department of Chemistry and Nano Science/EWHA Womans University, Seoul, Korea*)

Highly Reactive Manganese(IV)-Oxo Complexes in C-H bond Activation Reactions

12:40 to 13:00

Tamal Chatterjee (*Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain*), Beatriu Domingo, Federico Franco, Eugenia Martínez, Pablo Ballester, Emilio Palomares

Correlation between the charge transfer kinetics and CO₂ reduction catalytic performance of metal oxide-metalloporphyrin based hybrid catalysts

S22 Porphyrinoids-based systems for health

Room "Madrid 4"



Chaired by: Reza Ghiladi, Fabienne Dumoulin, Francesca Giuntini & João Tomé

11:00 to 11:20

Martina Vermathen (*Dept. of Chemistry, Biochemistry & Pharm. Sciences, University of Bern, Bern, Switzerland*)

Nanoparticle Encapsulated Porphyrinic Photosensitizers – Insights Gained from NMR Spectroscopy

11:20 to 11:40

Jean-Olivier Durand (*Institut Charles Gerhardt Montpellier, CNRS, Montpellier, France*), Soraya Dib, Chiara Mauriello Jimenez, Dina Aggad, Ahmed Lakrafi, Guillaume Hery, Christophe Nguyen, Denis Durand, Alain Morere, Khaled El Cheikh, Vincent Sol, Vincent Chaleix, Sofia Dominguez Gil, Karim Bouchmella, Laurence Raehm, Makhlof Boufatit, Xavier Cattoën, Michel Wong Chi Man, Nadir Bettache, Magali Gary-Bobo, Jonas Croissant, Karen Tresfield, Danielle Laurencin, Dorothée Berthomieu, Nicolas Cubedo, Mireille Rossel, Shahad Alsaïari, Dalaver Anjum, Rachid Sougrat, Manuel Roldán-Gutiérrez, Sebastien Richeter, Erwan Oliviero, Clarence Charnay, Sébastien Clément, Marie Maynadier, Niveen Khashab

Organosilica Nanoparticles for Photodynamic Therapy and siRNA Delivery

11:40 to 12:00

Véronique Rosilio (*Institut Galien Paris-Saclay / Université Paris-Saclay, Châtenay-Malabry, France*), Ali Makky, Jean-Philippe Michel

Porphyrin-loaded liposomes and nanoparticles for the photodynamic therapy of cancers

12:00 to 12:20

Gang Zheng (*University of Toronto and Princess Margaret Cancer Centre, Toronto, Canada*), Carly Pellow, Elizabeth Huynh, David Goertz

Porphyrin Supramolecular Assemblies for Ultrasound Applications

12:20 to 12:40

Tayyaba Hasan (*Wellman Center for Photomedicine, Boston, USA*)

The importance of porphyrins in nanoconstructs for enabling therapeutics

12:40 to 13:00

David Sánchez-García (*Institut Químic de Sarrià, Universitat Ramon Llull, Barcelona, Spain*), Iris Pontón

Mesoporous Silica Nano-vehicles for the Delivery of Chemotherapeutics and Photosensitisers

MONDAY

S27 Heme enzymes: Structure and function

Room "Neptuno / Puerta de Alcalá"

Chaired by: Denis Rousseau & Syun-Ru Yeh

11:00 to 11:20

Denis Rousseau (*Albert Einstein College of Medicine, Bronx, USA*), Izumi Ishigami, Syun-Ru Yeh
X-ray-induced Reduction of Cytochrome c Oxidase

11:20 to 11:40

Joachim Heberle (*FU Berlin, Exp. Molecular Biophysics, Berlin, Germany*), Federico Baserga, Pit Langner, Julian Storm, Ramona Schlesinger
Electric Fields and Proton Transfers in Cytochrome c Oxidase Gauged by Time-Resolved IR Spectroscopy

11:40 to 12:00

Atsuhiko Shimada (*Faculty of applied biological sciences, Gifu University, Gifu, Japan*), Kyoko Shinzawa-Itoh, Kazumasa Muramoto, Tomitake Tsukihara, Shinya Yoshikawa
Coupling Mechanism Between O₂ Reduction and Proton-pumping Reaction Driven by Cytochrome c Oxidase.

12:00 to 12:20

Constantinos Varotsis (*Cyprus University of Technology, Department of Chemical Engineering, Lemesos, Cyprus*), Charalampos Tselios, Takehiro Ohta, Tewfik Soulimane
Structure of the CuB-NO in the binuclear center of heme-copper oxidoreductases

12:20 to 12:40

Louis Noodleman (*Integrative Structural and Computational Biology/The Scripps Research Institute, La Jolla, USA*), Wen-Ge Han Du, Duncan McRee, Ying Chen, Teffanie Goh, Andreas Goetz
DFT calculated Pathways of Electrons, Protons, and Oxygen Derived Species in a Bacterial cytochrome c oxidase: Comparisons with Experimental Spectroscopies and Structures

12:40 to 13:00

Koichiro Ishimori (*Department of Chemistry, Faculty of Science, Hokkaido University, Sapporo, Japan*)
Structural and Functional Characterization of Electron Transfer Complex between Cytochrome c and Cytochrome c Oxidase

Monday, 11 July, 2022, PM

MONDAY

S02 New phthalocyanines and related porphyrinoids - Synthesis and properties

Room "Madrid 1-3"

Chaired by: Andrew Cammidge, Gema de la Torre, Tomás Torres & Miguel García-Iglesias

14:30 to 14:50

Roeland Nolte (*Radboud University, Institute for Molecules and Materials, Nijmegen, Netherlands*),
Pieter J. Gilissen, Floris P.J.T. Rutjes, Ben L. Feringa, Johannes A.A.W. Elemans
Synthesis of Molecular Motor-functionalized Porphyrin Macrocycles

14:50 to 15:10

Gema de la Torre (*Universidad Autónoma de Madrid, Madrid, Spain*), Marta Moreno Simoni,
unit Kumar, Tomás Torres
Phthalocyanine and subphthalocyanine cages: molecular flasks for chemical reactions over fullerenes

15:10 to 15:30

Bernard Boitrel (*UMR CNRS 6226, I.S.C.R., Université de Rennes 1, Rennes, France*), Qiyue Mao,
Pradip K. Das, Stéphane Le Gac, Vincent Dorcet, Koji Oohora, Takashi Hayashi, Hiroaki Kitagishi
A Functional Myoglobin Model with Increased O₂/CO Binding Selectivity in Aqueous Solution

15:30 to 15:50

Christopher Ziegler (*University of Akron, Akron, USA*), Briana R. Schrage, Viktor N. Nemykin
Isoindoline-Based Open Macrocycles

15:50 to 16:10

Sergiu Gorun (*Chemistry and Biochemistry/Seton Hall University, South Orange, USA*), Marius Pelmus
Fluorinated Phthalocyanines with Different Degrees of Perfluoroalkylation and Functional Groups:
Synthesis, X-ray Structures, Applications

16:10 to 16:30

Jorge Labella Santodomingo (*Universidad Autónoma de Madrid, Madrid, Spain*), Elisa López-Serrano,
Giulia Lavarda, Leyre Hernández-López, Kazutaka Shoyama, Frank Würthner, Jorge Lobo-Checa,
Tomás Torres
New avenues in the fabrication of SubPc-based molecular materials: Chirality, C-H activation, and
supramolecular organization.

16:30 to 17:00

Coffee Break (3rd Floor)

S02 New phthalocyanines and related porphyrinoids - Synthesis and properties

Room "Madrid 1-3"

Chaired by: Andrew Cammidge, Gema de la Torre, Tomás Torres & Miguel García-Iglesias

17:00 to 17:20

Nazario Martin (*Universidad Complutense, Madrid, Spain*), Jennifer Patino-Alonso, Gema Nieto, Justo Cabrera-González, Beatriz Illescas

Porphyrins as Scaffolds for Multivalent Presentation of Glycofullerene

17:20 to 17:40

Andrew Cammidge (*School of Chemistry, University of East Anglia, Norwich, United Kingdom*), Ibtesam Mashnoy, Jacob Gretton, Isabelle Chambrier

Stepwise synthesis of a new family of porphyrinoid hybrids

17:40 to 18:00

G. Dan Pantos (*Department of Chemistry, University of Bath, Bath, United Kingdom*), Dora Rasadean
Chiral Phthalocyanine – Porphyrin Assemblies

18:00 to 18:20

Penelope Brothers (*Research School of Chemistry, Australian National University, Canberra, ACT, Australia*), Aaron Tay, Jeanet Conradie, Abhik Ghosh, David Ware

Tetrahedral Pegs in Square Holes: Diboron Phthalocyanines and Porphyrazines

18:20 to 18:40

Daniel Leznoff (*Simon Fraser University, Burnaby, Canada*)

Phthalocyanines with Non-traditional Early Transition-Metals

18:40 to 18:50

Siphumelele Thandokwazi Mkhondwane (*Institute for Nanotechnology Innovation, Grahamstown, South Africa*), Refilwe Matshitse, Tebello Nyokong

TiO₂ electrospun nanofibers decorated with conjugates of porphyrin with graphitic carbon nitride quantum dots for photodegradation of organic pollutants.

18:50 to 19:00

Sithi Mgidlana (*Institute for Nanotechnology Innovation, Makhanda, South Africa*), Tebello Nyokong

Phototransformation of dibenzothiophene using asymmetrical phthalocyanines covalently linked to metal tungstate nanoparticles

S10 Chiral aspects of porphyrin supramolecular chemistry

Room "Cibeles / Puerta del Sol"

Chaired by: Roberto Purrello & Victor Borovkov

14:30 to 14:50

Roberto Paolesse (*Scienze e Tecnologie Chimiche/University of Rome Tor Vergata, Rome, Italy*),
Gabriele Magna, Corrado Di Natale, Donato Monti, Sara Nardis, Manuela Stefanelli

Supramolecular Porphyrin Aggregates: the Long Road for the Development of Chiral Sensors

14:50 to 15:10

Alessandro D'Urso (*Chemical Science Department/ University of Catania, Catania, Italy*)

"From-Imprinted-to-Template": The Supramolecular Role of Porphyrin Hetero-Aggregates

15:10 to 15:30

CANCELLED

Nina Berova (*Chemistry, New York, USA*), Sankar P. Rath, Ana G. Petrovic

Insights on the usefulness and challenges in application of chiral and achiral bis-metalloporphyrin hosts for determining the absolute configuration of chiral guests

15:30 to 15:50

Reiko Oda (*Chemistry/CNRS/University of Bordeaux, Pessac, France*), Zakaria Anfar, Antoine Scalabre, Yutaka Okazaki, Balamurugan Kuppan, Thierry Buffeteau, Gabriele Magna, Manuela Stefanelli, Donato Monti, Emilie Pouget, Sylvain Nlate, Roberto Paolesse

Nanometric chiral platform for the induction of chiral properties to porphyrin derivatives – towards enantioselective sensors

15:50 to 16:10

Jan Labuta (*International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), Tsukuba, Japan*)

Prochiral Solvating Agents (pro-CSA): NMR Detection of Enantiomeric Excess without Formation of Diastereomers

16:10 to 16:30

Lukas Ustrnul (*Department of Chemistry and Biotechnology, Tallinn University of Technology, Tallinn, Estonia*), Marko Šakarašvili, Nele Konrad, Victor Borovkov, Riina Aav

Hemicucurbituril Complexes with Porphyrins – Chirality Induction and Sensing

16:30 to 17:00

Coffee Break (3rd Floor)

MONDAY

S10 Chiral aspects of porphyrin supramolecular chemistry

Room "Cibeles / Puerta del Sol"

Chaired by: Roberto Purrello & Victor Borovkov

17:00 to 17:20

Roberto Purrello (*Department of Chemical Sciences, Catania, Italy*), Alessandro D'Urso, Rosalba Randazzo, Massimiliano Gaeta, Maria Elena Fragalà
New insight in the chirality of *J*-aggregates of H₂TPPS

17:20 to 17:40

Sankar P. Rath (*Department of Chemistry, Kanpur, India*)
Metal-Centre-Driven Supramolecular Chirogenesis using Metalloporphyrin tweezers: Structural, Spectroscopic and Theoretical Investigations

17:40 to 18:00

Victor Borovkov (*Department of Chemistry and Biotechnology/Tallinn University of Technology, Tallinn, Estonia*)
Supramolecular Chirogenesis in Porphyrin Chemistry: Recent Developments and Further Prospects

18:00 to 18:20

Simona Bettini (*University of Salento, Lecce, Italy*)
Thin films of chiro-optically active porphyrin-based supramolecular adducts: design and preliminary applications.

18:20 to 18:40

Riina Aav (*Tallinn University of Technology, Tallinn, Estonia*)
Chirality induction and self-assembly of metallo-porphyrins by chiral cyclohexanohemicucurbiturils

18:40 to 18:50

Dolly Chandel (*Department of Chemistry, Kanpur, India*), Bapan Saha, Chandrani Pal, Sankar P. Rath
Induction and Rationalization of Supramolecular Chirality using Urea-bridged Metalloporphyrin tweezers: A Structure-Function Correlation

S16 Porphyrinoids for catalytic reactions, including water splitting, CO₂ reduction and utilization

Room "Madrid 5"

Chaired by: Emma Gallo, Rui Cao & Mine Ince

14:30 to 14:50

Alexander Sorokin (*IRCELYON, CNRS - Université Lyon 1, Villeurbanne, France*), Alexander G. Martynov, Lucie Cailler, Andrei Kroitor, Yulia Yu. Gorbunova

Phthalocyanine Complexes: Expanding Toolbox for Carbene Transfer Reactions

14:50 to 15:10

Umit Isci (*Gebze Technical University, Kocaeli, Turkey*)

Monomeric and dimeric complexes of phthalocyanines as oxidation catalysts

15:10 to 15:30

Zeev Gross (*Schulich Faculty of Chemistry, Technion - Israel Institute of Technology, Haifa, Israel*), Atif Mahammed, Sachin Kumar, Amit Tyagi, Arik Raslin

Corrole Metal Complexes as Catalysts for Clean Energy Processes

15:30 to 15:50

Bas de Bruin (*University of Amsterdam, Amsterdam, Netherlands*), Roel Epping, Minghui Zhou

Membered ring synthesis via carbene radicals

15:50 to 16:10

Rongzhen Liao (*School of chemistry and chemical engineering, Huazhong University of Science and Technology, Wuhan, China*)

Quantum chemical modeling of porphyrin ligand based redox catalysis

16:10 to 16:30

Caterina Damiano (*Università degli studi di Milano, Milano, Italy*), Matteo Cavalleri, Emma Gallo

Porphyrin@CC: from laundry sheets to low-cost optical sensors and photocatalysts

16:30 to 17:00

Coffee Break (3rd Floor)

MONDAY

S16 Porphyrinoids for catalytic reactions, including water splitting, CO₂ reduction and utilization

Room "Madrid 5"

Chaired by: Emma Gallo, Rui Cao & Mine Ince

17:00 to 17:20

Kallol Ray (*Humboldt University Berlin, Berlin, Germany*)

Small Molecule Activation at Transition Metal Centers: Structure-Function Correlations

17:20 to 17:40

Rudi Fasan (*Department of Chemistry, University of Rochester, Rochester, USA*)

Stereoselective olefin cyclopropanation reactions with engineered hemoprotein catalysts

17:40 to 18:00

Abhishek Dey (*School of Chemical Science, Kolkata, India*)

Rational Design of Electrocatalyst for CO₂ Reduction

18:00 to 18:20

Arijit Singha Hazari (*Institut für Anorganische Chemie, Universität Stuttgart, Stuttgart, Germany*),
Biprajit Sarkar

Metal complexes of triply fused porphyrins: impact of extended conjugation, metals and functional groups on electrocatalytic small molecule activation

18:20 to 18:30

Junming Shao (*Université de Paris, Paris, France*), Marc Robert

From CO to Formaldehyde and Methanol with a Cobalt Phthalocyanine Electrocatalyst

S22 Porphyrinoids-based systems for health

Room "Madrid 4"



Chaired by: Reza Ghiladi, Fabienne Dumoulin, Francesca Giuntini & João Tomé

14:30 to 14:50

Luis Arnaut (*Chemistry Department, Coimbra, Portugal*), Claire Donohoe, Fábio Schaberle, Fábio Rodrigues, Mariette Pereira, Mathias O. Senge, Lúcia Gomes-da-Silva

Atropisomerism of Porphyrin Derivatives Uncovers Molecular Motifs That Promote Cell Uptake

14:50 to 15:10

M. Amparo F. Faustino (*LAQV-Requimte and Department of Chemistry / University of Aveiro, Aveiro, Portugal*), Cristina J. Dias, Mariana Q. Mesquita, Kelly A.D.F. Castro, Ana S. Joaquineto, Letícia D. Costa, Sara Gamelas, Sofia Sarabando, Carla Santos, Leandro M. O. Lourenço, Nuno M. M. Moura, Carlos J. P. Monteiro

Porphyrin photosensitizers for biological applications

15:10 to 15:30

Derya Topkaya (*Dokuz Eylul University - Chemistry Department, Izmir, Turkey*), Derya Aydin, Haifa Ben Aziza, Zeynel Sahin, Umit Isci, Elif Aygun, Denis Durand, Uygur H. Tazebay, Magali Gary-Bobo, Emine Ulku Saritas, Fabienne Dumoulin

Towards PDT-MRI molecular theranostics: TEMPO-substituted phthalocyanines

15:30 to 15:50

Rosa Fernandes (*Coimbra Institute for Clinical and Biomedical Research (iCBR)/Faculty of Medicine, University of Coimbra, Coimbra, Portugal*)

Application of Porphyrin and Phthalocyanine Glycodendritic Conjugates in Biomedicine

15:50 to 16:10

Fabienne Dumoulin (*Acibadem University, Istanbul, Turkey*)

Phthalocyanines-based systems for health

16:10 to 16:30

Ravindra K. Pandey (*Roswell Park Comprehensive Cancer Center, Buffalo, USA*), Mykhaylo Dukh, Farukh Durrani, Joseph Cacaccio, Joseph R. Missert

Photodynamic therapy in combination with chemotherapy is superior to monotherapy for the treatment of lung cancer

16:30 to 17:00

Coffee Break (3rd Floor)

MONDAY

S22 Porphyrinoids-based systems for health

Room "Madrid 4"



Chaired by: Reza Ghiladi, Fabienne Dumoulin, Francesca Giuntini & João Tomé

17:00 to 17:20

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

Antimicrobial Strategies for Infection Prevention: Photodynamic and Photothermal Materials

17:20 to 17:40

Adelaide Almeida (*University of Aveiro, Aveiro, Portugal*), Marta Gomes, Maria Bartolomeu, Cátia Vieira, Ana T. P. C. Gomes, M. Amparo F. Faustino, M. Graça P. M. S. Neves

Replace Disinfection of wastewater in the mitigation of SARS-CoV-2 by photodynamic treatment

17:40 to 18:00

Joshua Ruppel (*University of South Carolina Upstate, Spartanburg, USA*), Nicole L. Snyder, Charlie F. Dixon, Ana N. Nottingham, Matthew C. Bennion, Morgan A. Burch, David D. Dennis, George T. Mukosera

CuAAC glycosylation of porphyrinoids: preliminary effects of linker length on the photodynamic inactivation of Mycobacterium.

18:00 to 18:20

Anzhela Galstyan (*University of Duisburg Essen, Essen, Germany*)

Insights into the regulation of light-induced cytotoxicity in photoactive nanomaterials

18:20 to 18:40

Vincent Sol (*laboratoire PEIRENE EA 7500 University of Limoges, Limoges, France*),

Abdechakour Elkihel, Frédérique Brégier, Vincent Chaleix, Charlotte Vernisse, Tan-Sothéa Ouk, Romain Lucas

Photosensitizers-peptides and Photosensitizers-polysaccharides complexes for antimicrobial photodynamic therapy applications

18:40 to 19:00

Antonino Mazzaglia (*CNR-ISMN, MESSINA, Italy*), Roberto Zagami, Domenico Franco, Laura de Plano

Photosensitising Nanoassemblies based on Cyclodextrin/Porphyrinoid Complexes with Antimicrobial Photodynamic Action

MONDAY

S27 Heme enzymes: Structure and function**Room "Neptuno / Puerta de Alcalá"**

Chaired by: Denis Rousseau & Syun-Ru Yeh

14:30 to 14:50

John Hackett (*Department of Chemistry and Biochemistry, Florida International University, Miami, USA*), Tyler Sweeney, Lorela Paco, William Atkins

Dynamics and mechanisms of ligand binding to cytochrome P450 3A4

14:50 to 15:10

Syun-Ru Yeh (*Albert Einstein College of Medicine, Bronx, USA*), Khoa Pham, Ariel Lewis-Ballester
Conformational Plasticity in Human Heme-Based Dioxygenases

15:10 to 15:30

Takehiko Tosha (*RIKEN SPring-8 center, Sayo, Japan*), Minoru Kubo, Yoshitsugu Shiro
Elucidation of Mechanisms for Catalytic Reaction of Nitric Oxide Reductases by Time-resolved Techniques

15:30 to 15:50

Gayan Wijeratne (*Chemistry/ University of Alabama at Birmingham, Birmingham, USA*), Pritam Mondal, Shanuk Rajapakse

Learning how Nature Handles Indoles: Mapping the Mechanistic Intermediates of Heme Enzyme mediated Dioxygenation, Monooxygenation, and Nitration of Indole Motifs using Synthetic Model Systems

15:50 to 16:10

Emily Weinert (*Biochemistry & Molecular Biology, Penn State University, University Park, USA*)
Probing O₂ Affinity, Reactivity, and Signaling in Globin Coupled Sensors

16:10 to 16:30

Somdatta Ghosh Dey (*School of Chemical Sciences/Indian Association for the Cultivation of Science, Kolkata, India*)

Alzheimer's Disease: Reactive Intermediates

16:30 to 17:00

Coffee Break (3rd Floor)

MONDAY

S28 Theory and spectroscopy

Room "Neptuno / Puerta de Alcalá"

Chaired by: Nagao Kobayashi & Martin Stillman

17:00 to 17:20

Nagao Kobayashi (*Shinshu University, Ueda, Japan*)

Adjustment of the Q band position, intensity and shape of $(4n+2)\pi$ type (aza)porphyrinoids

17:20 to 17:40

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

Tuning tetrapyrroles for enhanced function: Combining advanced optical methods and electronic structure studies.

17:40 to 18:00

Mariana Hildebrand (*Weizmann Institute of Science, Rehovoth, Israel*) Guy Ohad, Leeor Kronik

Structure and Properties of Cu-phthalocyanine-based Molecular Solids from First Principles

18:00 to 18:20

Heike Fliegl (*Karlsruhe Institute of Technology, Institute of Nanotechnology, Eggenstein-Leopoldshafen, Germany*)

Linking magnetically induced currents to spectroscopic properties

18:20 to 18:40

Atsuya Muranaka (*RIKEN CSRS, Wako, Japan*), Xingmei Ouyang, Yusuke Tanaka, Masanobu Uchiyama, Hiroyuki Koshino

Synthesis and Chiroptical Properties of Helical Open-Ring Hemiporphyrazines

18:40 to 18:50

Eline Desmedt (*Algemene Chemie ALGC - Vrije Universiteit Brussel VUB, Brussel, Belgium*),

Tatiana Woller, Johannes L. Teunissen, Freija De Vleeschouwer, Mercedes Alonso

Tuning the Nonlinear Optical Contrast of Modified Hexaphyrin-based Molecular Switches using Inverse Design

Tuesday, 12 July, 2022, AM

Award Lecture - Lifetime Achievement

Room "Madrid 1-3"



Hans-Fischer-Gesellschaft

09:00 to 10:00 Award Lecture

Laudatio by: Zeev Gross

Abhik Ghosh (*UiT – The Arctic University of Norway, Tromsø, Norway*)

Porphyrins, the Periodic Table, and Phototherapeutics

- **Hans Fischer Award in Porphyrin Chemistry**

10:00 to 10:30

Coffee Break (3rd Floor)

TUESDAY

S09 Hückel, Möbius, Baird and 3-dimensional aromaticity/antiaromaticity in porphyrinoids - in honor of Atsuhiko Osuka

Room "Madrid 1-3"

Chaired by: Jonathan Sessler, Hiroshi Shinokubo & Dongho Kim

10:30 to 10:50

Hiroyuki Furuta (*Dept Chem & Biochem/ Kyushu University, Fukuoka, Japan*), Osamu Iwanaga, Biju Basumatary, Masatoshi Ishida

Modulation of Aromatic Circuits in the Triply Fused N-Confused Porphyrin Dimer System

10:50 to 11:10

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

Aromaticity and Antiaromaticity of Redox-Switchable 5,10,15,20-Tetraaryl-5,15-diazaporphyrinoids

11:10 to 11:30

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

Modulations of a Metal–Ligand Interaction and Photophysical Behaviors by Hückel–Möbius Aromatic Switching

11:30 to 11:50

Hiroshi Shinokubo (*Graduate School of Engineering, Nagoya University, Nagoya, Japan*)

Close Stacking of Norcorrole Metal Complexes

11:50 to 12:30

CANCELLED

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

Versatile Aromaticities of Expanded Porphyrins

TUESDAY

S05 Porphycenes and other porphyrin isomers

Room "Madrid 4"

Chaired by: Jacek Waluk & Santi Nonell

10:30 to 10:50

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

Spectroscopy, Photophysics, and Tautomerism in Porphycenes

10:50 to 11:10

Rubén Pérez (*Universidad Autónoma de Madrid, Madrid, Spain*), Tomoko Shimizu, Carlos Romero-Muñiz, Oleksandr Stetsovych, Jaime Carracedo-Cosme, Pablo Pou, Koji Oohora, Takashi Hayashi, Oscar Custance

Effect of Molecule-Substrate Interaction on the Adsorption of Meso-Dibenzoporphycene Tautomers Studied by Scanning Probe Microscopy and First-Principles Calculations

11:10 to 11:30

Ravikanth Mangalampalli (*Department of Chemistry, Mumbai, India*)

Synthesis and studies of Porphyrin Isomers

11:30 to 11:50

Taro Koide (*Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan*), Zihan Zhou, Isao Aritome, Tatsuya Saeki, Yoshitsugu Morita, Yoshihito Shiota, Yoshio Yano, Toshikazu Ono, Hisashi Shimakoshi, Kazunari Yoshizawa, Yoshio Hisaeda

Cobalt-carbon bond formation reaction *via* the ligand reduction of cobalt porphycene

11:50 to 12:10

Alberto Bossi (*Istituto di Scienze e Tecnologie Chimiche "G. Natta" of the CNR (CNR-SCITEC), Milan, Italy*), Marta Penconi, Jacek Waluk, Rossella Yivlialin, Marcello Campione, Gianlorenzo Bussetti

Porphycenes networks, 2D and 3D thin film with intriguing properties suitable for in situ sensing

12:10 to 12:30

Santi Nonell (*Institut Químic de Sarrià, Barcelona, Spain*), Cormac Hally, Mireia Jordà-Redondo, Ingrid Nieves, Montserrat Agut, M. Lluïsa Sagristá, Margherita Maiuri, Eleonora Uriati, Paolo Bianchini, Stefania Abbruzzetti, Cristiano Viappiani

Targeted Porphycenes for Photodynamic Therapy Applications

TUESDAY

S12 Porphyrin-based chemical sensors

Room " Madrid 5"

Chaired by: Marcel Bouvet & Corrado Di Natale

10:30 to 10:50

Corrado Di Natale (*Dept Electronic Engineering, University of Rome Tor Vergata, Roma, Italy*),
Gabriele Magna, Manuela Stefanelli, Roberto Paolesse

Hybrid Porphyrin Materials for Electric Impedance Based Sensor Arrays

12:10 to 12:30

María Luz Rodríguez-Méndez (*Química Física y Química Inorgánica, Valladolid, Spain*),
Coral Salvo-Comino, Clara Pérez-González, Cristina Fernández-Sánchez,
Cristina García-Cabezón, Fernando Martín-Pedrosa

Multicomponent nanostructured films based on phthalocyanines as biosensing platforms

11:10 to 11:30

Sergey Borisov (*Graz University of Technology, Graz, Austria*), Georg Schwendt

Optical Sensing of Temperature and Oxygen with Dually Emitting Metalloporphyrins

11:30 to 11:50

Gianlorenzo Bussetti (*Department of Physics/Politecnico di Milano, Milan, Italy*), Alessio Orbelli Biroli,
Alberto Calloni, Alberto Bossi, Madan S. Jagadeesh, Guglielmo Albani, Lamberto Duo, Franco Ciccacci,
Andrea Goldoni, Alberto Verdini, Luca Schio, Luca Floreano

Out-Of-Plane Metal Coordination for a True Bottom-Up Building with Porphyrin Bricks

10:50 to 11:10

Marcel Bouvet (*ICMUB, Dijon, France*), Abhishek Kumar, Rita Meunier-Prest, Charles H. Devillers

Polyporphine/phthalocyanine-based heterojunctions for gas sensing

11:50 to 12:10

Ludovico Valli (*Dipartimento di Scienze e Tecnologie Biologiche e Ambientali / Università del Salento, Lecce, Italy*), Simona Bettini, Victor Borovkov, Gabriele Giancane, Nitika Grover, Cornelia Mattern,
Michela Ottolini, Rosanna Pagano, Mathias O. Senge

The intriguing story of bis-porphyrins in chemical sensors

S21 Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Room "Cibeles / Puerta del Sol"

Chaired by: *Christophe Bucher & Charles Devillers*

10:30 to 10:50

Christophe Bucher (*Laboratoire de Chimie de l'Ecole Normale Supérieure de Lyon, Lyon, France*),
Shaymaa Al Shehimi, Orsola Baydoun, Elise Dumont, Denis Frath, Floris Chevallier

Electron-Triggered Spin State Switching in a Viologen-Substituted Nickel Porphyrin

10:50 to 11:10

Charles H. Devillers (*Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon, France*),
Fatima Akhssas, Mathieu Berthelot, Asmae Bousfiha, Julie Echaubard, Abdou K. D. Dimé, Seydou Hébié,
Amelle Mankou-Makaya, Sophie Fournier, Anthony Romieu, Julien Roger, Hélène Cattey, Dominique Lucas,
Paul Fleurat-Lessard

Redox reactivity of porphyrins: from π -extension to meso/ β functionalization and material electrosynthesis

11:10 to 11:30

Ally Aukauloo (*ICMMO, Orsay, France*), Nhat-Tam Vo, Marie Sircoglou, Xiaojiao Yuan, Yannick Dappe,
Winfried Leibl, Hynd Remita

Pyrrole containing systems for OAT and Water Splitting

11:30 to 11:50

Elisa Tomat (*The University of Arizona, Tucson, USA*), Clayton Curtis, Iva Habensus, Andrei Astashkin

Biopyrrin Pigments as Electron Reservoirs and Redox-Switchable Fluorophores

11:50 to 12:10

Ken-ichi Yamashita (*Department of Chemistry, Graduate School of Science, Osaka University, Toyonaka, Osaka, Japan*), Shouichi Takeuchi, Ken-ichi Sugiura

Redox-Switchable Structurally Well-Defined meso-Aminoporphyrin Oligomers Analogous to Polyanilines

12:10 to 12:30

W. Ryan Osterloh (*University of Houston, Houston, USA*), Karl M. Kadish, Muniappan Sankar

Electrosynthesis and Electrochemistry of Nickel Octahalogenated Porphodimethenes: Evidence for a Metallated Porphyrinogen Dianion

12:30 to 12:40

Nobuhle Ndebele (*Institute of Nanotechnology Innovation, Rhodes University, Makhanda, South Africa*),
Tebello Nyokong

The Synthesis of Symmetric Chalcone Co, Cu, Mn and Ni Phthalocyanine Complexes and Their Electrochemical Properties

12:40 to 12:50

Reitumetse Nkhahle (*Institute for Nanotechnology Innovation, Makhanda, South Africa*), Tebello Nyokong

A comprehensive study on the electrocatalysis of nitrite using cobalt and manganese phthalocyanines

TUESDAY

S24 Catalysis in natural and biosynthetic heme proteins**Room "Neptuno / Puerta de Alcalá"**

Chaired by: Anabella Ivancich

10:30 to 10:50

Kara Bren (*University of Rochester, Department of Chemistry, Rochester, USA*), Angela Lombardi, Emily Edwards, Alison Salamatian, José Álvarez-Hernández, Ryan Kosko, Linda Leone
Cytochrome Catalysts for Artificial Photosynthesis

10:50 to 11:10

Takashi Hayashi (*Dept. of Applied Chemistry, Osaka University, Suita, Japan*), Koji Oohora
Catalysis in Myoglobins Reconstituted with Artificial Metalloporphyrinoids

11:10 to 11:30

Pierre Moenne-Loccoz (*Oregon Health & Science University, Portland, USA*), Therese Albert, Robert Clubb, Kat Ellis-Guardiola
Resonance Raman Study of the Mechanism of Heme Extraction from Human Hemoglobin by the *Staphylococcus aureus* Receptor IsdH

11:30 to 11:50

Nicolai Lehnert (*University of Michigan, Ann Arbor, USA*), Jill Harland, Subhra Samanta
Synthetic Model Systems for Bacterial Nitric Oxide Reductase

11:50 to 12:10

Piotr Mak (*Saint Louis University, Saint Louis, USA*)
Evaluation of critical structural factors affecting heme degradation catalyzed by a noncanonical heme oxygenase

12:10 to 12:30

Mario Rivera (*Chemistry/Louisiana State University, Baton Rouge, USA*)
The Enduring Legacy of F. Ann Walker's Career

TUESDAY

Tuesday, 12 July, 2022, PM

S09 Hückel, Möbius, Baird and 3-dimensional aromaticity/antiaromaticity in porphyrinoids - in honor of Atsuhiko Osuka

Room "Madrid 1-3"

Chaired by: Jonathan Sessler, Hiroshi Shinokubo & Dongho Kim

14:00 to 14:20

Jun-Long Zhang (*Chemistry, Beijing, China*), Guoqin Jin, Zhi-Shu Yang, Hang Zhang
Lanthanide Porphyrin Phototheranostics

14:20 to 14:40

Cina Foroutan-Nejad (*Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland*), Jan Michal Kormanik
Is Aromaticity Related to Transmission Properties? A Survey on Porphyrinoids

14:40 to 15:00

Stéphane Le Gac (*Institut des Sciences Chimiques de Rennes (UMR CNRS 6226), University of Rennes 1, Rennes, France*), Bernard Boitrel, Mickaël Ménand, Hervé Ruffin, Rajaa Benchouaia, Nicolas Cissé
How Far Can the Dynamic Chirality of Möbius Hexaphyrins Be Controlled?

15:00 to 15:20

Eduard Matito (*Donostia International Physics Center (DIPC), San Sebastian, Spain*), Irene Casademont, Raúl Guerrero, Luís Soriano, Eloy Ramos, Miquel Torrent
How Aromatic Are Large Molecular Nanorings? The Role of Electron Delocalization

15:20 to 15:40

Mercedes Alonso (*General Chemistry Department (ALGC), Vrije Universiteit Brussel (VUB), Brussels, Belgium*), Eline Desmedt, Tatiana Woller, Freija De Vleeschouwer
Computational Strategies for Designing Functional Molecular Switches from Expanded Porphyrins

15:40 to 16:00

Jonathan Sessler (*Chemistry, UT Austin, Austin, USA*)
Meso-free Aromatic, Antiaromatic, and Non-topographically Planar Porphyrinoids

16:00 to 16:30

Coffee Break (3rd Floor)

TUESDAY

S04 N-confused and other “mis-linked” porphyrins and porphyrinoids

Room "Madrid 4"

Chaired by: Hiroyuki Furuta

14:00 to 14:20

Piotr Chmielewski (*Department of Chemistry, University of Wroclaw, Wroclaw, Poland*),
Sebastian Koniarz

Complexes of 2-Aza-21-carbaporphyrin as Ligands

14:20 to 14:40

Chen-Hsiung Hung (*Institute of Chemistry, Academia Sinica, Taipei, Taiwan*), Kaichuan Hsu, Chuan-Hung Chuang, Su-Hong Peng

Catalytic Oxygenation Reactions Using Metal Complexes of N-Confused Porphyrins as Catalysts

14:40 to 15:00

Michal Bialek (*University of Wroclaw, Department of Chemistry, Wroclaw, Poland*)

A tool to explore macrocyclic aromaticity, intermetallic interactions, and organometallic chemistry under confinement - cobalt azuliporphyrin

15:00 to 15:20

Venkataramanarao Anand (*Indian Institute of Science Education and Research, Pune, India*),
Vishnu Mishra, Santosh Panchal, Ramesh Hiremath

Synthesis and Redox Chemistry of Confused Isophlorins

15:20 to 15:40

A. Srinivasan (*School of Chemical Sciences, Bhubaneswar, India*), Mainak Das, B. Adinarayana
Porphyrinoids with Higher Analogues of Arene and Pyridine Units in the core

15:40 to 16:00

Harapriya Rath (*School of Chemical Sciences, Indian Association for the Cultivation of Science, Kolkata, India*)

Tailor-Made Aromatic (antiaromatic) Porphyrinoids with NIR Absorption

16:00 to 16:30

Coffee Break (3rd Floor)

TUESDAY

S14 Porphyrinoid biohybrid materials for light management applications

Room "Madrid 5"

Chaired by: *Andres de la Escosura Navazo*

14:00 to 14:20

Tebello Nyokong (*Institute for Nanotechnology Innovation, Makhanda, South Africa*)
Design of Phthalocyanines for Photoinactivation of Multidrug Resistance Bacteria

14:20 to 14:40

Eduardo Anaya-Plaza (*Department of Bioproducts and Biosystems, Aalto University, Espoo, Finland*),
Ahmed Shaukat, Andrés de la Escosura, Tomás Torres, Mauri A. Kostianen
Phthalocyanines as Functional Recognition Motif for Highly-Ordered Biobased Materials

14:40 to 15:00

Petr Zimcik (*Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*),
Miloslav Machacek, Veronika Nováková, Miroslav Miletín, Jan Kollar, Lucia Kociscakova
On the Structural Factors Influencing Photodynamic Activity in Phthalocyanines

15:00 to 15:20

Bernhard Spingler (*University of Zurich, Zurich, Switzerland*)
Highly Effective Photosensitizers for Photodynamic Therapy (PDT)

15:20 to 15:40

João Tomé (*Departamento de Engenharia Química, Instituto Superior Técnico, Lisboa, Portugal*)
Bioconjugates for enhanced cancer photodynamic therapy

15:40 to 16:00

Yongdoo Choi (*National Cancer Center, Goyang, Korea*)
Fucoidan-based Theranostic Nanogel for Enhancing Imaging and Photodynamic Therapy

16:00 to 16:20

Andrés de la Escosura (*Universidad Autónoma de Madrid, Madrid, Spain*), Francesca Setaro,
Verónica Almeida-Marrero, Tomás Torres, Santiago Guisán-Ceinos
Biohybrid Strategies for Delivery and Targeting with Third-Generation Photosensitizers

16:00 to 16:30

Coffee Break (3rd Floor)

TUESDAY

S19 Biomimetic solar conversion

Room "Cibeles / Puerta del Sol"

Chaired by: *Ally Aukauloo & Fabrice Odobel*

14:00 to 14:20

Harry Anderson (*Department of Chemistry, University of Oxford, Oxford, United Kingdom*)

Electronic Delocalization and Aromaticity in Covalent Porphyrin Nanostructures

14:20 to 14:40

Francesca Arcudi (*Northwestern University, Evanston, USA*), Luka Dordevic, Samuel I. Stupp,

Emily A. Weiss

Cobalt Porphyrin Catalysts for Photocatalytic Generation of Solar Fuels and Commodity Chemicals

14:40 to 15:00

Marc Robert (*Université de Paris - CNRS, Paris, France*)

Molecular photo(electro)chemical reduction of CO₂ to C1 products with 2, 4, 6 and 8 electrons. From mechanistic studies to hybrid systems.

15:00 to 15:20

Inez Weidinger (*Department of Chemistry and Food Chemistry, Technische Universitaet Dresden, Dresden, Germany*), Anthony Ramuglia, Hoang Khoa Ly, Mino Borelli, Christine Joy Querebillo,

Renhao Dong, Xinliang Feng, Matthias Schwalbe

Understanding Energy Conversion in Molecular (Photo)electrocatalysis through Operando Vibrational Spectroelectrochemistry

15:20 to 15:40

Athanassios Coutsolelos (*University of Crete, Heraklion, Greece*), Emmanouil Nikoloudakis,

Vasilis Nikolaou, Georgios Charalambidis, Anna Mitraki

Self-assembly of dipeptide-chromophore hybrids and applications

15:40 to 16:00

Alexandra Fateeva (*University Lyon 1, Villeurbanne, France*), Ben Gikonyo, Morgane Piet,

Catherine Journet, Eva Montero Lanzuela, Hermengildo García Baldovi, Sergio Navalón Oltra, Thomas Devic, Nathalie Guillou

A Mixed Metal Porphyrinic Metal Organic Framework for Photocatalytic Applications

16:00 to 16:20

Fabrice Odobel (*CEISAM, UMR CNRS 6230, Nantes, France*), Hichem Hichou, Debashrita Sarkar,

Stéphane Diring, Nicolas Barreau, Marc Robert, Stéphane Jobic

Immobilization of iron porphyrin on inorganic semiconductor for photocatalytic CO₂ reduction

16:00 to 16:30

Coffee Break (3rd Floor)

S24 Catalysis in natural and biosynthetic heme proteins

Room "Neptuno / Puerta de Alcalá"

Chaired by: Anabella Ivancich

14:00 to 14:20

Jennifer DuBois (*Department of Chemistry and Biochemistry, Montana State University, Bozeman, USA*),
Emerald Ellis, Melodie Machovina, John McGeehan, Gregg Beckham
Engineering P450s to Alleviate a Bottleneck to Lignin Demethylation

14:20 to 14:40

Thomas Makris (*Molecular and Structural Biochemistry / North Carolina State University, Raleigh, USA*),
Suman Das, Hannah Gering, Olivia Manley, Brian McMillan
Functional Reprogramming in Heme Enzymes

14:40 to 15:00

Smilja Todorovic (*ITQB-NOVA Universidade Nova de Lisboa, Oeiras, Portugal*), Catarina Barbosa,
Celia Silveira, Marco Fraaije, Ligia Martins
(SE)RR view of the active site architecture in DyPs governing their electrocatalysis

15:00 to 15:20

Sabine Van Doorslaer (*Department of Chemistry/University of Antwerp, Antwerp, Belgium*), Kevin Nys,
Paul Georg Furtmüller, Christian Obinger, Vera Pfanzagl
New insights into B-class dye-decolorizing peroxidases: tracing radical sites with electron paramagnetic resonance

15:20 to 15:40

Kenton Rodgers (*Chemistry & Biochemistry, North Dakota State University, Fargo, USA*),
Zachary Geeraerts, Gudrun Lukat-Rodgers, Olivia Stiller
Spectroscopy and Mechanism of O₂-producing Chlorite Dismutases

15:40 to 16:00

Michael Ryan (*Chemistry Department, Milwaukee, USA*), Caitlin Ryan
Using Pattern Recognition to Correlate DFT Modes

16:00 to 16:30

Coffee Break (3rd Floor)

TUESDAY

S30 Contributed talks - Synthesis, Characterization & Properties

Room "Madrid 5"

Chaired by: *Fernando Fernández-Lázaro & José García Calvo*

16:30 to 16:50

Masahiro Yamashita (*Department of Chemistry, Tohoku University, Sendai, Japan*), Yoji Horii, Keiichi Katoh

Triplet biradical states of multiple-decker phthalocyaninato-terbium(III) single-molecule magnets

16:50 to 17:00

Samson Khene (*Department of Chemistry, Rhodes University, Makhanda, South Africa*), Otto Joseph, Jonathan Britton

Nonlinear Optical Properties of Metal Free Thio Alkyl and Tert-butyl Phenoxy Phthalocyanines

17:00 to 17:10

José García Calvo (*Departamento de Química/Universidad Autónoma de Madrid, Madrid, Spain*), Tomás Torres

SubPcs - Peryleneimides for Optoelectronic Applications

17:10 to 17:20

Giuseppe Pomarico (*Department of Molecular and Translational Medicine, University of Brescia, Brescia, Italy*), Miriam Romano, Annalisa Radeghieri, Paolo Bergese, Roberto Paolesse

Phosphorus Corrole-BSA Nanoaggregates for Theranostic Applications

17:20 to 17:30

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

Parent Corrphycene - Synthesis and Properties

17:30 to 17:40

Nivedita Chaudhri (*Department of Chemistry, University of Connecticut, Storrs, USA*), Matthew J. Guberman-Pfeffer, Matthias Zeller, Christian Brückner

Erosion of The Graded (and Surprising) Aromaticity of β -Trioxopyrrocorphins upon Reduction

17:40 to 17:50

Anna Sinelshchikova (*Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moscow, Russia*), Filipp Kolomeychuk, Evgeniya Safonova, Alexander Martynov, Aslan Tsivadze, Yulia Gorbunova

Structural Features of Phosphorus(V) Complexes with Phthalocyanine

17:50 to 18:00

Ivan Skvortsov (*Ivanovo State University of chemistry and Technology, Ivanovo, Russia*), Alina Fazlyeva, Pavel Stuzhin

Novel dihydro-1H-diazepinoporphyrazines as potential photosensitizers and pH-sensitive fluorophores

S31 Contributed talks - Materials, Catalysis & Energy

Room "Madrid 1-3"

Chaired by: Ally Aukauloo & Luis Martín-Gomis

16:30 to 16:50

Philani Mashazi (*Rhodes University, Makhanda, South Africa*), Daniel Mwanza, Keamogeste Tshenkeng, Iphithuli Moyo, Charles Luhana

Metallophthalocyanines as electrocatalytic thin monolayer films for enhanced electrochemical (bio) sensing applications

16:50 to 17:00

Zeynel Sahin (*Marmara University, Istanbul, Turkey*), Yildiz Ek, Fabienne Dumoulin, Rita Meunier-Prest, Umit Isci, Marcel Bouvet

Water-soluble nickel phthalocyanines as sublayers in MSDI heterojunctions for ammonia sensing

17:00 to 17:10

Alberto de Juan (*Universidad Autónoma de Madrid, Madrid, Spain*), Fernando García-Guijarro, Miguel García-Iglesias, David González-Rodríguez

A Mechanically Interlocked Jail for C₆₀ Fullerene

17:10 to 17:20

Tatevik Chilingaryan (*University Lorraine, Nancy, France*), Celine Frochot, Philippe Arnoux, Benoit Habermeyer

Development of new antimicrobial materials based on porphyrinoids

17:20 to 17:30

Nnamdi Nwahara (*Department of chemistry, Rhodes University, Makhanda, South Africa*), Garth Abrahams, Earl Prinsloo, Tebello Nyokong

Prodrug-modified Phthalocyanine for Photodynamic Therapy

17:30 to 17:40

Yolande Ikala Openda (*Institute of Nanotechnology Innovation, Grahamstown, South Africa*), Bokolombe Pitchou Ngoy, Tebello Nyokong

Fast Removal of Multidrug-resistant Bacterial Biofilms: Antimicrobial Photodynamic Therapy combined to Chemotherapy

17:40 to 17:50

Jan Herritsch (*Fachbereich Chemie, Philipps-Universität Marburg, Marburg, Germany*), Qitang Fan, Marie-Irene Albus, Lukas Ruppenthal, Lukas Heuplick, Leonard Neuhaus, Tobias Wassermann, Michael Gottfried

Oxidation-State Tuning and Supramolecular Mixed-Valence Phases: Nickel(II) Porphyrin and Nickel(II) Corrole on Different Metal Surfaces

TUESDAY

17:50 to 18:00

Raphaël Lamare (*CEA-Saclay, Gif-sur-yvette, France*), Joffrey Pijeat, Milos Baljovic, Karl-Heinz Ernst, Stéphane Campidelli

On-surface synthesis of fused anthracenyl porphyrinderivatives

18:00 to 18:10

Manjunatha Nemakal (*Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa*), Tebello Nyokong

Biocompatible Cobalt(II) Phthalocyanine Encapsulated with Chitin Biopolymer *via* Amide Bond and Decorated with Flower-Like Zinc Oxide Multipods for Electrochemical Sensing

18:10 to 18:30

Luis Martín-Gomis (*Instituto de Bioingeniería/Universidad Miguel Hernández, Elche, Spain*), Víctor Sobrino-Bastán, Ritesh Haldar, Christof Wöll, Ángela Sastre-Santos

Silicon phthalocyanine compounds as organic linkers in MOF porous materials used as active material in optical resonators

18:30 to 18:40

Larissa Maiorova (*Institute of Macroheterocyclic Compounds, Ivanovo State University of Chemistry and Technology, and Institute of Pharmacoinformatics, FRC "Computer Science and Control" Ivanovo and Moscow, Russia*), Denis Salnikov, Oscar Koifman, Alexandr Sorokin

Nanoparticles of vitamin B12 hydrophobic derivative. Formation and gas sensor properties

S32 Contributed talks - Biomedical, Biology & Biochemistry

Room "Madrid 4"

Chaired by: Santi Nonell & Dmitry Berezin

16:30 to 16:50

Huang Chiao Huang (*Department of Bioengineering/University of Maryland, College Park, College Park, USA*)

Verteporfin Photodynamic Therapy: An Enabling Technology to Improve Brain Drug Delivery and Tumor Control

16:50 to 17:10

Muthumuni Managa (*Institute for Nanotechnology and Water Sustainability (iNanoWS), Florida, South Africa*), Bridged Ngwanabjala Magaela, Lekgowa Collen Makola, Tebello Nyokong

Photodynamic activity of novel 5-(pyridyl)-10-15-20-tris(4-bromophenyl) porphyrin conjugated to graphene quantum dots against *Staphylococcus aureus*

17:10 to 17:20

Miffy (Hok Yan) Cheng (*Department of Biochemistry and Molecular Biology, Vancouver, Canada*), Marta Overchuk, Maneesha A. Rajora, Jenny W. H. Lou, Ying Chen, Martin G. Pomper, Juan Chen, Gang Zheng

Targeted Theranostic ¹¹¹In/Lu-Nanotexaphyrin for SPECT Imaging and Photodynamic Therapy

17:20 to 17:30

Maria Bartolomeu (*CESAM & Department of Biology, University of Aveiro, Aveiro, Portugal*), Carlos J. P. Monteiro, Milton Fontes, Cátia Vieira, M. Graça P. M. S. Neves, M. Amparo F. Faustino, Adelaide Almeida

Impact of Different Physicochemical Parameters in the Antimicrobial Photodynamic Therapy Success

17:30 to 17:40

Tiffany Ho (*Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Canada*), Juan Chen, Lili Ding, Jiachuan Bu, Gang Zheng

Novel next-generation porphyrin nanoplatform for photodynamic therapy applications

17:40 to 17:50

Yulin Mo (*Institute of Medical Science/ University of Toronto, Toronto, Canada*), Miffy (Hok Yan) Cheng, Andrew D'Elia, Katie Doran, Lili Ding, Juan Chen, Gang Zheng

Porphyrin-based Lipid Nanoparticle Enhanced RNAi Endosomal Escape through Near-infrared Light

17:50 to 18:00

Wioleta Borzecka (*Centre of Polymer and Carbon Materials Polish Academy of Sciences, Zabrze, Poland*), Adrian Dominski, Katarzyna Malarz, Anna Mrozek-Wilczkiewicz, Tomás Torres, Marek Kowalczyk

The Enhancement of Photodynamic Breast Cancer Treatment with Phthalocyanine-Polymeric Nanomicelles Delivery Systems

TUESDAY

18:00 to 18:10

Aleksandra Potrzasaj (*Institute of Organic Chemistry Polish Academy of Sciences, Warszawa, Poland*),
Wojciech Chaladaj, Michal Ociepa, Maciej Giedyk, Dorota Gryko

Vitamin B12 enables photogeneration of alkyl radicals from strained molecules

18:10 to 18:30

Dmitry Berezin (*Organic Chemistry Department / Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Andrey Kustov, Natal'ya Kukushkina, Philipp Morshnev, Dmitry Karimov, Dmitry Belykh, Elena Belykh, Tatyana Zorina, Vladimir Zorin

Chlorin Conjugates for Antimicrobial and Antitumor Photodynamic Therapy: From Synthesis and Disaggregation to Biodistribution and Photocytotoxicity Assays

TUESDAY

Wednesday, 13 July, 2022, AM

Award Lectures

SPP/JPP Young Investigator Awards

Room "Madrid 1-3"



08:30 to 09:00 Award Lecture

Laudatio by: Daniel Gryko

Takayuki Tanaka (*Kyoto University, Kyoto, Japan*)

NH-Corrole Chemistry Based on the Development of meso-Free Corroles

09:00 to 09:30 Award Lecture

Laudatio by: Nagao Kobayashi

Taniyuki Furuyama (*Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Japan*)

Development of Controlled Reactions using Phthalocyanine-based Materials

09:30 to 10:00 Award Lecture

Laudatio by: Dongho Kim

Masatoshi Ishida (*Department of Applied Chemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan*)

N-Confused Porphyrinoid-based Functional Near-infrared Dyes

10:00 to 10:30 Award Lecture

Laudatio by: Petr Zimcik

Veronika Novakova (*Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*)

Phthalocyanines and their analogues: Toward efficient fluorescence sensors and photosensitizers for PDT

Thursday, 14 July, 2022, AM

Tribute to Frances Ann Walker

Room "Madrid 1-3"

08:45 to 09:00

Anabella Ivancich

Tribute to Frances Ann Walker

Award Lecture - Lifetime Achievement

Room "Madrid 1-3"



09:00 to 10:00

Laudatio by: Anabella Ivancich

Giulietta Smulevich (*Chemistry "Ugo Schiff" (DICUS) University of Florence, Sesto Fiorentino (FI), Italy*)

Probing the intriguing world of heme enzymes with resonance Raman spectroscopy

- **Eraldo Antonini Award**

10:00 to 10:30

Coffee Break (3rd Floor)

THURSDAY

S01 Subphthalocyanines, BODIPYs and related compounds**Room "Madrid 1-3"**

Chaired by: Soji Shimizu, M. Victoria Martínez-Díaz & M. Salomé Rodríguez-Morgade

10:30 to 10:50

M. Victoria Martínez-Díaz (*Department Organic Chemistry/Universidad Autónoma Madrid, Madrid, Spain*), Maria Lahoz, Jorge Labella, Lara Tejerina, Tomás TorresAnnulative π -Extension of Subphthalocyanines

10:50 to 11:10

Timothy Bender (*Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, Canada*), Devon Holst, Nina Francesca Farac

Progression on the Development of Boron Subnaphthalocyanines and Related Hybrids for their Applications

11:10 to 11:30

Mogens Brøndsted Nielsen (*Department of Chemistry, University of Copenhagen, Denmark*)

Molecular Dyad Systems Based on Boron Subphthalocyanine

11:30 to 11:50

Daigo Miyajima (*Center for Emergent Matter Science, RIKEN, Wako-shi, Japan*)

Polar Assemblies of Subphthalocyanines and Their Unique Properties

11:50 to 12:10

Rüdiger Faust (*Institute for Chemistry, University of Kassel, Kassel, Germany*), Gero Grunewald, Denise Täubert, Lorena Vogt

SubPc – Scaffolding

12:10 to 12:30

Pradeepta Panda (*University of Hyderabad, Hyderabad, India*), Brijesh Chandra, Rahul Soman, Ishfaq Bhat, Sathish Kumar Bijigiri, Sameeta Sahoo

Ethoxycarbonyl-derived B(III)Subchlorins: Direct Synthesis & Photophysical Studies

THURSDAY

S06 Exotic porphyrins and novel pyrrolic macrocycles

Room "Madrid 4"

Chaired by: Chang-Hee Lee & Hong Wang

10:30 to 10:50

Norbert Jux (*Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials., Erlangen, Germany*), Christoph Oleszak, Kilian Schöll, Rebecca Guldi, Lampros-Pascal Gazetas
Nanographene-fused porphyrins

10:50 to 11:10

Sergei Vinogradov (*University of Pennsylvania/Biochemistry-Biophysics, Philadelphia, USA*), Srinivasa Rao Allu, Luca Ravotto, Thomas Troxler
Non-Linear Spectroscopy of π -Extended Porphyrins

11:10 to 11:30

John Mack (*Rhodes University, Makhanda, South Africa*), Rodah Soy, Nthabeleng Molupe, Somila Dingiswayo, Choonzo Chiyumba, Mahlatse Ledwaba, Temlandvo Magwaza, Kristen Burgess, Balaji Babu, Tebello Nyokong
Rational structural modification of porphyrins: NIR absorbing photosensitizer dyes for biomedical applications

11:30 to 11:50

Hong Wang (*University of North Texas, Argyle, USA*), Austen Moss, Jacob Arvidson, Youngwoo Jang, Francis D'Souza
 π -Extended Porphyrins Fused with Five-, Six, and 8-Membered Rings: Synthesis, Characterization and Property Studies

11:50 to 12:10

Muniappan Sankar (*Indian Institute of Technology Roorkee, Roorkee, India*)
 π -Extended Porphyrinoids: Synthesis, Spectral and Electrochemical Redox Properties and Their Application in NLO and Sensing

12:10 to 12:30

Gonzalo Durán-Sampedro (*Universidad Autónoma de Madrid, Madrid, Spain*), Jorge Labella, Swathi Krishna, María Victoria Martínez Díaz, Dirk M. Guldi, Tomás Torres
Novel π Functional Materials Based On Conjugated BODIPY-Anthracenes

THURSDAY

S13 Self-assembled systems and materials based on porphyrinoids**Room "Madrid 5"**

Chaired by: Giovanni Bottari, David González-Rodríguez & Athanassios Coutsolelos

10:30 to 10:50

Valérie Heitz (*Laboratoire LSAMM - Institut de Chimie de Strasbourg, Strasbourg, France*)

Stimuli-responsive Porphyrin Cages as Allosteric Receptors and Bimetallic Catalysts

10:50 to 11:10

Kentaro Tanaka (*Department of Chemistry, Nagoya University, Nagoya, Japan*)

Molecular Memories, Molecular Receptors and Catalysts Based on Supramolecular Conjugates of Porphyrinoids

11:10 to 11:30

Enrique Ortí (*Instituto de Ciencia Molecular, Paterna (Valencia), Spain*), Joaquín Calbo, Juan Aragón, María José Mayoral, Julia Guilleme, Fátima Aparicio, David González-Rodríguez, Tomás Torres

Self-Assembly of Cone-Shaped Subphthalocyanines: A Theoretical Insight

11:30 to 11:50

Maria Angela Castriciano (*Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, University of Messina, Messina, Italy*), Roberto Zagami, Andrea Romeo, Luigi Monsù Scolaro

Insights into chiral porphyrin J-aggregates

11:50 to 12:10

Ali Makky (*Université Paris-Saclay/Institut Galien Paris-Saclay, Châtenay-Malabry, France*), Louis-Gabriel Bronstein, Paul Cressey, Agota Toth, Véronique Rosilio, Florent Di Meo, Christophe Regeard

Design of supramolecular assemblies based on phospholipid-porphyrin conjugates with photodynamic and photothermal properties to combat bacterial infections

12:10 to 12:30

Xavi Ribas (*Dept- Chemistry & Institute of Computational Chemistry and Catalysis (IQCC), Girona, Spain*), Ernest Ubasart, Míriam Pujals, Tània Pèlachs, Carles Fuertes-Espinosa, Valentina Iannace, Teodor Parella, Marc García-Borràs

Porphyrin-Based Tetragonal Prismatic Nanocapsules as Supramolecular Masks for Regioselective Functionalization of Fullerenes

12:30 to 12:50

Harry Fry (*Center for Nanoscale Materials/Argonne National Laboratory, Lemont, USA*)

Overcoming energy barriers to achieve complex ensembles in the self-assembly of metalloporphyrin binding peptides.

THURSDAY

S17 From light harvesting to charge separation and charge transport

Room "Cibeles / Puerta del Sol"

Chaired by: Francis D'Souza, Dirk Guldi & Angela Sastre Santos

10:30 to 10:50

Fernando Fernández-Lázaro (*Universidad Miguel Hernández, Elche, Spain*), Nathalie Zink-Lorre, Luis Martín-Gomis, Ángela Sastre-Santos, Paul A. Karr, Andrew Dawson, Francis D'Souza
Synthesis and Photophysical Study of a (Perylenediimide-Azobenzene)₂Silicon Phthalocyanine Pentad

10:50 to 11:10

Christine Paul-Roth (*INSA de Rennes ISCR, Rennes, France*), Frédéric Paul, Olivier Mongin
New Porphyrin- and Phthalocyanine-Based Dendrimers For Optics

11:10 to 11:30

Fernando Langa (*INAMOL/Universidad de Castilla-La Mancha, Toledo, Spain*), Rubén Caballero, Myriam Barrejón, Jesús Cerdá, Juan Aragón, Sairaman Seetharaman, Pilar de la Cruz, Enrique Ortí, Francis D'Souza
Self-Assembly-Directed Organization of a Fullerene-Bisporphyrin into Supramolecular Giant Donut Structures

11:30 to 11:50

Prashanth Poddutoori (*Department of Chemistry & Biochemistry, University of Minnesota Duluth, Duluth, USA*)
Group (15) Porphyrin Chemistry

11:50 to 12:10

Francis D'Souza (*Chemistry, University of North Texas, Denton, USA*), Jivan Sindhe, Michael B. Thomas, Andrew Dawson, Bijesh Sekaran, Youngwoo Jang, Rajneesh Misra
Excited Charge Transfer in Porphyrin and BODIPY Connected TCBD-Ferrocene Conjugates

12:10 to 12:30

Nikolai Tkachenko (*Tampere University, Tampere, Finland*)
Porphyrin and phthalocyanine electron donors in molecular and organic-semiconductor charge transfer systems

S25 Chemistry and biology of corrinoids and related compounds

Room "Neptuno / Puerta de Alcalá"

Chaired by: Dorota Gryko & Felix Zelder

10:30 to 10:50

Bernhard Kräutler (*Institute of Organic Chemistry, University of Innsbruck, Innsbruck, Austria*)
Synthesis, Chemistry and Chemical Biology of Transition Metal Analogues of the Natural B12-Derivatives

10:50 to 11:10

Hisashi Shimakoshi (*Kyushu University, Fukuoka, Japan*)
Bioinspired Catalytic Reactions With and Beyond the Vitamin B12 Enzyme Function

11:10 to 11:30

Robert Doyle (*Syracuse University, Syracuse, USA*), Matthew R. Hayes, Ian C. Tinsley, Tito Borner, Bart C. De Jonghe
Peptide 'Corrination' for the mitigation of CNS associated side-effects of GLP-1 receptor agonists

11:30 to 11:50

Fabio Zobi (*Université de Fribourg, Fribourg, Switzerland*), Sara Nasiri Sovari, Natasa Radakovic, Joachim Delasoie, Aleksandar Pavic, Jasmina Nikodinovic-Runic
Antibiotic and Anticancer Rhenium Carbonyl Complexes and Cobalamin Functionalized Microalgae for their Delivery

11:50 to 12:10

Koji Oohora (*Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Suita, Japan*), Takashi Hayashi
Reconstituted Myoglobin with Corrole Metal Complexes and its Reactivity toward Hydrogen Peroxide

12:10 to 12:30

Dorota Gryko (*Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland*)
The polarity reversal strategy based on vitamin B12

THURSDAY

Thursday, 14 July, 2022, PM

S01 Subphthalocyanines, BODIPYs and related compounds

Room "Madrid 1-3"

Chaired by: Soji Shimizu, M. Victoria Martínez-Díaz & M. Salomé Rogríquez-Morgade

14:00 to 14:20

Yasuhide Inokuma (*Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Japan*)

Calix[3]pyrrole: Synthesis and strain induced reactions

14:20 to 14:40

Viktor Nemykin (*University of Tennessee - Knoxville, Knoxville, USA*), Yuriy Zatsikha, Liliya Shamova, David Blank

Creating new types of scalable, aza-BODIPY like chromophores: from electron-deficient MB-DIPYs to aza-DIPY-isoindigo hybrids

14:40 to 15:00

Hua Lu (*Key Laboratory of Organosilicon Chemistry and Material Technology, Ministry of Education, Hangzhou, China*), Lizhi Gai, Zhikuan Zhou, Sisi Wang

BODIPYs: Structure and Excited-State Regulation

15:00 to 15:20

Gokulnath Sabapathi (*Indian Institute of Science Education and Research, Thiruvananthapuram, India*), Ajay Jayaprakash, Sulfikarali Thondikkal

Cyclic-BODIPYs: A Multifaceted Candidates with Varied Properties

15:20 to 15:40

Hiromitsu Maeda (*Department of Applied Chemistry, College of Life Sciences, Ritsumeikan University, Kusatsu, Japan*)

Charged Porphyrins That Provide π -Electronic Ion-Pairing Assemblies

15:40 to 16:00

Soji Shimizu (*Department of Applied Chemistry, Graduate School of Engineering, Kyushu University, Fukuoka, Japan*), Yuto Kage, Ru Feng, Yitong Wang, Hiroyuki Furuta

Synthesis of aza-BODIPY Analogues by a Schiff Base Forming Reactions and Their NIR Optical Properties

16:00 to 16:30

Coffee Break (3rd Floor)

THURSDAY

S06 Exotic porphyrins and novel pyrrolic macrocycles**Room "Madrid 4"**

Chaired by: Chang-Hee Lee & Hong Wang

14:00 to 14:20

Chang Hee Lee (*Chemistry, chun cheon, Korea*)

Synthesis and Properties of Core Modified Corrole Analogues and anti-Aromatic Hexaphyrins

14:20 to 14:40

Hidemitsu Uno (*Ehime University, Matsuyama, Japan*), Kohta Muramatsu, Jun Nakamura, Yui Suzuki, Hu Gao, Tetsuo Okujima, Zhen ShenPreparation and Property of Free-Base Corroles with No Substituents at *meso* Positions

14:40 to 15:00

Jonathan Hill (*International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tsukuba, Japan*)

Sensing and Singlet Oxygen Generation using Non-Planar Tetrapyrroles

15:00 to 15:20

Shengqian Ma (*University of North Texas, Denton, USA*)

Porous Corrole Framework Materials

15:20 to 15:40

Woo-Dong Jang (*Chemistry/Yonsei University, Seoul, Korea*), Jeong Heon Lee, Hyunjun Park, Younghun Kim

Supramolecular Assembly Formed by Porphyrin Derivatives based on Multiple Hydrogen Bonding Interaction

15:40 to 16:00

Paul-Gabriel Julliard (*CNRS - Aix-Marseille Université, Marseille, France*), Simon Pascal, Olivier Siri, Diego Cortés-Arriagada, Luis Sanhueza, Gabriel Canard

Straightforward access to functional porphyrins from meso-poly-halogeno-alkyl-dipyrromethanes

16:00 to 16:30

Coffee Break (3rd Floor)

THURSDAY

S13 Self-assembled systems and materials based on porphyrinoids

Room "Madrid 5"

Chaired by: Giovanni Bottari, David González-Rodríguez & Athanassios Coutsoulelos

14:00 to 14:20

Lluïsa Pérez-García (*Universitat de Barcelona, Barcelona, Spain*), Mario Samperi, Bilel Bdiri, Charlotte D. Sleet, Robert Markus, Ajith R. Mallia, David Limón, David B. Amabilino

Anion binding in supramolecular hydrogels incorporating porphyrins: from phototoxicity to molecular machines

14:20 to 14:40

Anja Palmans (*Department of Chemical Engineering and Chemistry, Eindhoven, Netherlands*)

Subtle Effects of Solvents and Cosolvents on the Supramolecular Polymerization Pathways of Amide-Functional Discotics

14:40 to 15:00

Miguel García Iglesias (*Department of Chemistry and Process & Resources, Santander, Spain*),

Nicolás M. Casellas, Alba Fonseca, Dennis K. P. Ng, Tomás Torres

Self-assembled photosensitisers for photodynamic therapy

15:00 to 15:20

Michel Rickhaus (*Department of Chemistry, University of Zurich, Zürich, Switzerland*), Joseph F. Woods, Lucía Gallego, Andreas Vargas Jentzsch

Shape Matters! How π -Rich Curved Carpyridines Drive Columnar Aggregation

15:20 to 15:40

Francesca Giuntini (*School of Pharmacy and Biomolecular Sciences, Liverpool John Moores University, Liverpool, United Kingdom*), Paolo Dognini, Barbara B. Gerbelli, Chris R. Coxon, Wendel A. Alves

Thiol-fluoride aromatic substitution: a straightforward entry to new self-assembling peptide-porphyrin conjugates

15:40 to 16:00

David González-Rodríguez (*Universidad Autónoma de Madrid, Madrid, Spain*), Alberto de Juan

Host-Guest Chemistry within Novel Porphyrin Nanocages

16:00 to 16:30

Coffee Break (3rd Floor)

THURSDAY

S17 From light harvesting to charge separation and charge transport

Room "Cibeles / Puerta del Sol"

Chaired by: Francis D'Souza, Dirk Guldi & Ángela Sastre Santos

14:00 to 14:20

Zakaria Halime (*Université Paris-Saclay, CNRS, Institut de chimie moléculaire et des matériaux d'Orsay, Orsay, France*), Eva Pugliese, Philipp Gotico, Iris Wehrung, Bernard Boitrel, Annamaria Quaranta, Marie Sircoglou, Winfried Leibl, Ally Aukauloo

Dissection of Light-Induced Charge Accumulation at a Highly Active Iron-Porphyrin for CO₂ Catalytic Reduction

14:20 to 14:40

Walter Guerra (*Arizona State University, Tempe, USA*), Emmanuel Odella, Maria Urrutia, Edgar Reyes Cruz, Maxim Secor, Joshua Goings, Yusuke Yoneda, James She, Eric Arsenault, Gerdenis Kodis, Gary Moore, Martin Head-Gordon, Sharon Hammes-Schiffer, Graham Fleming, Thomas Moore, Ana Moore

Photoinduced proton-coupled electron transfer processes in bioinspired systems

14:40 to 15:00

Art van der Est (*Brock University, St. Catharines, Canada*), Prashanth Poddutoori, Antonio Barbon, Marilena Di Valentin

Transient EPR Studies of Main Group Element in Porphyrin-Based Donor Acceptor Complexes

15:00 to 15:20

Thomas Bein (*Chemistry, Munich, Germany*)

Light Harvesting, Charge Separation and Charge Transport in Covalent Organic Frameworks

15:20 to 15:40

Christof Wöll (*KIT Germany, Karlsruhe, Germany*)

Advanced Photoresponsive Materials from Porphyrins and Phthalocyanines: The Metal–Organic Framework Approach

15:40 to 16:00

Shahzada Ahmad (*BCMaterials, Basque Center for Materials, Applications & Nanostructures, Leioa, Spain*)

Design Engineering of Phthalocyanine as Hole Selective Layers for Perovskites Solar Cells Fabrication

THURSDAY

S26 Natural porphyrinoid pigments

Room "Neptuno / Puerta de Alcalá"

Chaired by: Bernhard Kräutler & Franz-Peter Montforts

14:00 to 14:20

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

The Rich Chemistry of Hydroporphyrins

14:20 to 14:40

Hitoshi Tamiaki (*Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan*),
Takumi Hisayasu

Direct Removal of a Peripheral Vinyl Group in Nickel Chlorophyll Derivatives

14:40 to 15:00

Alfred William Rutherford (*Life Sciences/Imperial College London, London, United Kingdom*)

Oxygenic photochemistry beyond the red limit in chlorophyll f-containing photosystems

15:00 to 15:20

Montserrat Elías-Arnanz (*Department of Genetics and Microbiology/University of Murcia, Murcia, Spain*), Ricardo Pérez-Castaño, María Carmen Polanco, Marta Fontes, Subramanian Padmanabhan

Plasticity in the Mode of Action of B12-based Photoreceptors

15:20 to 15:40

Felix Zelder (*Chemistry/ University of Zurich, Zurich, Switzerland*), Christopher Brenig, Daniela Mestizo

Corrinoids as Cofactor F430 Models and Antibiotic Agents

15:40 to 16:00

Martin Warren (*Quadram Institute Bioscience, Norwich, United Kingdom*), Evelyne Deery, Ana Cooke

The Metalation of the Corrin Ring

16:00 to 16:30

Coffee Break (3rd Floor)

THURSDAY

S31 Contributed talks - Materials, Catalysis & Energy

Room "Madrid 1-3"

Chaired by: Hong Wang & Marcel Bouvet

16:30 to 16:50

Jonathan Britton (*Rhodes University Chemistry Department, Makhanda, South Africa*), Ben Jones, Donovan Mafukidze, Sivuyisiwe Mapukata, Andrew Hainer, Anabel Lanterna, Juan Scaiano, Olawale Osifeko, Tebello Nyokong

Applications of Phthalocyanine Modified Electrospun Fibers

16:50 to 17:10

Karolina Hurej (*Department of Chemistry, University of Wroclaw, Wroclaw, Poland*), Audrey Pranowo, Jakub Sukiennik, Sylwester Domanski

An unexpected way to 1,4-diketones - site-selective C(sp³)-H oxidation of arylalkanes

17:10 to 17:20

Drialys Cardenas-Morcoso (*Luxembourg Institute of Science and Technology, Esch-Sûr-Alzette, Luxembourg*), Max Heiderscheid, Deepak Bansal, Nicolas Boscher

Engineering of directly linked metalloporphyrin conjugated polymers *via* halogenated substituents: Impact on the optoelectronic properties and catalytic performance.

17:20 to 17:30

Jayanta Dana (*Chemistry and Advanced Materials Group, Tampere, Finland*), Ramsha Khan, Nikolai Tkachenko

Elucidation of Powering the Artificial Photosynthesis by Charge Separated CdTe@CdS/Co-Porphyrin Materials

17:30 to 17:40

Lekhetho Mpeta (*Rhodes University, Eastern Cape, South Africa*), Tebello Nyokong

Light assisted electrodegradation of 4-acetamidophenol on fabricated phthalocyanine based electrode

THURSDAY

S32 Contributed talks - Biomedical, Biology & Biochemistry**Room "Madrid 4"**

Chaired by: Joao Tomé & David Sánchez-García

16:30 to 16:40

Emel Onal (*Dogus University, Istanbul, Turkey*), Atefeh Emami, Burak Özdemir, Kevser Harmandar, Devrim Atilla, Sandrine Cammas-Marion, Fabienne Dumoulin

Ru vs Si, Pc vs Nc, small vs bulky axial substituents: design, synthesis and effect of these structural variations on photoproperties

16:40 to 16:50

Cátia Vieira (*University of Aveiro, Department of Biology, Aveiro, Portugal*), Maria Bartolomeu, Sónia N. Pedro, Carlos J. P. Monteiro, Ana T. P. C. Gomes, Carmen S. R. Freire, Paula Ramos, M. Graça P. M. S. Neves, M. Amparo F. Faustino, Adelaide Almeida

Photodynamic Inactivation of Pathogenic Microorganisms on Fish Fillet

16:50 to 17:00

Lindokuhle Nene (*Chemistry Rhodes University, Grahamstown, South Africa*), Tebello Nyokong

Photo-Sonodynamic Combination Activity of Morpholino-Phthalocyanines Conjugated to Graphene Quantum Dots Against MCF-7 Breast Cancer Cell Line

17:00 to 17:10

Nemanja Cvjetan (*Department of Materials/ETH Zürich, Zürich, Switzerland*), Reinhard Kissner, Danica Bajuk-Bogdanovic, Gordana Ciric-Marjanovic, Peter Walde

Heme B as catalyst for the green synthesis of the conductive emeraldine salt form of polyaniline

17:10 to 17:20

Hannah Palomino (*University of Michigan, Troy, USA*), Victor Sosa Alfaro, Sadiq O. Waheed, Christo Z. Christov, Nicolai Lehnert

Optimization of YfeX for Applications in Biocatalysis using Site-Directed Mutagenesis

Friday, 15 July, 2022, AM

Award Lecture - Lifetime Achievement

Room "Madrid 1-3"

Sessler Family Charitable Trust

09:00 to 10:00

Laudatio by: David Beratan

Michael Therien (*Department of Chemistry, Duke University, Durham, USA*)

Fundamental Excitations in Porphyrin Supermolecules

- **Robert Burns Woodward Career Award in Porphyrin Chemistry**

10:00 to 10:30

Coffee Break (3rd Floor)

FRIDAY

S03 Corroles (synthesis, properties and applications)

Room "Madrid 1-3"

Chaired by: Daniel Gryko, Roberto Paolesse & Zeev Gross

10:30 to 10:50

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

Beata Koszarna, Mariusz Tasior, Lukasz Kielesinski

Ups and downs in the synthesis of corroles

10:50 to 11:10

Gabriel Canard (*Centre Interdisciplinaire de Nanoscience de Marseille, Marseille, France*),

Paul-Gabriel Julliard, Simon Pascal, Olivier Siri, Diego Cortés-Arriagada, Luis Sanhueza

Synthesis, Characterization and Derivatization of meso-Perfluoro-alkyl Corroles

11:10 to 11:30

Wolfgang Schöfberger (*Institute of Organic Chemistry, Linz, Austria*), Houssein Awada, He Sun,

Luyang Song

Alkyne-azide cycloaddition reactions of meso-alkynyl corroles

11:30 to 11:50

Joana Barata (*CESAM, 3810-193, Portugal*), M. Graça P. M. S. Neves, José A. S. Cavaleiro

Corrole insights in pericyclic and Mannich type reactions

11:50 to 12:10

Martin Bröring (*TU Braunschweig, Braunschweig, Germany*), Jens Krumsieck

PorphyStruct: Quick conformational analysis for Corroles and other Porphyrinoids

12:10 to 12:30

Sara Nardis (*University of Rome Tor Vergata, Rome, Italy*), Mario Luigi Naitana, Lorenza Di Zazzo,

Beatrice Berionni Berna, Roberto Paolesse, Graça Vicente, Franck Fronczek

Aryl and Alkyl Corroles: "Brothers" with Different Characters

FRIDAY

S11 Paramagnetic polypyrroles including lanthanides complexes and radicals

Room "Madrid 4"

Chaired by: Yulia Gorbunova & Dmitri Konarev

10:30 to 10:50

Eugenio Coronado (*ICMol. Univ. Valencia, Paterna, Spain*), Eugenia Miguel, Luis Escalera, Carolina P. Ruiz-Ganivet, Fernando Luis, Alejandro Gaita-Ariño, Gema De La Torre, Tomás Torres
Enhancing Magnetic Hysteresis in Single-Molecule Magnets Based on Lanthanide-Phthalocyanine Complexes

10:50 to 11:10

Joshua Telser (*Roosevelt University, Chicago, USA*), Gerard P. Van Trieste III, Kaleb A. Reid, Madeline H. Hicks, Anuvab Das, Matthew T. Figgins, Nattamai Bhuvanesh, Andrew Ozarowski, J. Krzystek, David C. Powers
Manganese(III) Tetraphenylporphyrins with N-haloamide Axial Ligands: Precursors to Nitrenes via Photolysis

11:10 to 11:30

Alexander G. Martynov (*Frumkin Institute of Physical Chemistry & Electrochemistry RAS, Moscow, Russia*), Anna A. Sinelshchikova, Marina A. Polovkova, Kirill P. Birin, Gayane A. Kirakosyan, Nikolay N. Efimov, Yulia Yu. Gorbunova, Aslan Yu. Tsivadze
Heteroleptic lanthanide trisphthalocyaninate scaffold as a multi-tool to study molecular magnetism

11:30 to 11:50

Dmitri Konarev (*Institute of problems of chemical physics RAS, Chernogolovka, Russia*), Maxim Faraonov, Salavat Khasanov, Alexander Shestakov
Radical Anion Metal-free and Metal-containing Porphyrins, Phthalocyanines and Trithiadodecaazahexaphyrins

11:50 to 12:10

Yulia Yu. Gorbunova (*Kurnakov Institute of General and Inorganic Chemistry, RAS, Moscow, Russia*)
Smart Materials Based on Sandwich Lanthanide Complexes with Crown-Phthalocyanines

S15 Porphyrinoids at interfaces: On-surface chemistry and physico-chemical properties

Room "Madrid 5"

Chaired by: Willi Auwärter & David Écija

10:30 to 10:50

Willi Auwärter (*Technical University of Munich, Garching, Germany*)

Ring-Opening and Ring-Closing Reactions of Porphyrins on Surfaces

10:50 to 11:10

Davide Bonifazi (*Institute of Organic Chemistry, Vienna, Austria*)

O-annulation of porphyrin scaffoldings: synthesis and optoelectronic properties

11:10 to 11:30

Giovanni Bottari (*Department of Organic Chemistry, Universidad Autónoma de Madrid, Madrid, Spain*),

Luis Mateo, Tomás Torres, Qiang Sun, Pascal Ruffieux, Roman Fasel, Roberto Robles, Nicolas Lorente

Bottom-up Fabrication and Atomic-scale Characterization of Porphyrin-based Nanostructures

11:30 to 11:50

Anthoula C. Papageorgiou (*Technical University of Munich, Garching, Germany*)

Harvesting the Reactivity of Metalloporphyrin Pedestals on Planar, Solid Surfaces

11:50 to 12:10

Alex Saywell (*School of Physics and Astronomy, University of Nottingham, Nottingham, United Kingdom*),

Matthew Edmondson, Eleanor Frampton, Chris J. Judd, Neil R. Champness, Robert G. Jones, Elena Besley, Harry L. Anderson

Porphyrin-substrate systems studied by scanning probe microscopy: Spatial, energetic, and temporal resolution

12:10 to 12:30

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

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

FRIDAY

S18 Porphyrinoids for solar cells

Room "Cibeles / Puerta del Sol"

Chaired by: *Hiroshi Imahori & Hwankyu Kim*

10:30 to 10:50

Hiroshi Imahori (*Department of Molecular Engineering, Kyoto University, Kyoto, Japan*)
Porphyrins and Corroles for Dye-Sensitized Solar Cells

10:50 to 11:10

Hwan Kyu Kim (*Advanced Materials Chemistry/Korea University, Sejong, Korea*), Hoaran Zhou
Molecular Design and Synthesis of Porphyrin Sensitizers for Superior Performance Dye-Sensitized Solar Cells

11:10 to 11:30

Pilar de la Cruz (*INAMOL/Universidad de Castilla-La Mancha, Toledo, Spain*), Virginia Cuesta, Maida Vartanian, Ganesh D. Sharma, Fernando Langa
Tailoring Metalloporphyrins (M= Zn(II), Ni(II), Cu(II), Au(III)) for binary and ternary Organic Solar Cells with high Voc and PCE

11:30 to 11:50

Hiroko Yamada (*Nara Institute of Science and Technology, Ikoma, Japan*), Yuki Sugano, Kyohei Matsuo
Synthesis of 10,20-substituted-tetrabenz-5,15-diazaporphyrins and evaluation of their application to organic semiconductors

11:50 to 12:10

Benoit Lessard (*Chemical and Biological Engineering, Ottawa, Canada*)
Silicon Phthalocyanines for Organic Photovoltaics and Organic Thin Film Transistors

12:10 to 12:20

Gizem Gumusgoz Celik (*Chemistry / Gebze Technical University, Kocaeli, Turkey*), Aysenur Sahin, Ferruh Lafzi, Nurullah Saracoglu, Ahmet Altindal, Devrim Atilla, Ayse Gul Gurek
Triphenylamine substituted copper and zinc phthalocyanines as alternative hole-transporting materials for solution-processed perovskite solar cells

FRIDAY

S23 Heme proteins and synthetic analogues

Room "Neptuno / Puerta de Alcalá"

Chaired by: John Dawson & Takashi Hayashi

10:30 to 10:50

Anabella Ivancich (*French National Centre for Scientific Research (CNRS), Marseille, France*),
Stéphane Grimaldi, Guillaume Gerbaud, Barbara Schoepp-Cothenet, Winston Pitts, Karl Koebeke, Vincent Pecoraro
De Novo Designed Heme-Proteins Mimicking Both His-coordinated and Cys-coordinated Heme Enzymes

10:50 to 11:10

Angela Lombardi (*Department of Chemical Sciences/University of Naples Federico II, Naples, Italy*),
Linda Leone, Emilia Renzi, Daniele D'Alonzo, Marco Chino, Ornella Maglio, Flavia Nastri
Catalytic Promiscuity in Iron and Manganese Porphyrin-Containing Mini-Enzymes.

11:10 to 11:30

Petra Hellwig (*University of Strasbourg, UMR 7140, Strasbourg, France*), Iryna Makarchuk,
Anton Nikolaev, Schara Safarian, Jan Kaegi, Alexander Thesseling, Tomoichirou Kusumoto, Junshi Sakamoto,
Hartmut Michel, Thorsten Friedrich, Frederic Melin
The functional and structural diversity of cytochrome bd oxidase, a bacterial defense factor

11:30 to 11:50

Ekaterina Pletneva (*Department of Chemistry, Dartmouth College, Hanover, USA*)
Redox Properties of Bacterial Multiheme Modules Related to Microoxic Respiration

11:50 to 12:10

David Goldberg (*Chemistry, The Johns Hopkins University, Baltimore, USA*), Jireh Sacramento, Boya Feng
Iron(III) Superoxide Corrole: Generation, Characterization, and Reactivity with Indole and HAT Substrates

12:10 to 12:20

Ankita Sarkar (*Indian Association for the Cultivation of Science, Kolkata, India*), Abhishek Dey
Bio-inspired Non-heme Metal-tetrathiolate Cluster of Iron-porphyrin

FRIDAY

Friday, 15 July, 2022, PM

S03 Corroles (synthesis, properties and applications)

Room "Madrid 1-3"

Chaired by: Daniel Gryko, Roberto Paolesse & Zeev Gross

14:00 to 14:20

Atif Mahammed (*Technion-Israel Institute of Technology, Haifa, Israel*), Zeev Gross

New generation corroles, better suited for serving as drug candidates and catalysts for clean-energy processes

14:20 to 14:40

Claude P. Gros (*Université de Bourgogne, ICMUB (UMR CNRS 6302), Dijon, France*), Stéphane Brandès, Jian Yang, Camille Monot, Dimitri Sabat, Sandrine Pacquelet, Nicolas Desbois, Laurie André, François Estour, Rachid Baati

Corroles as precursors of POPs and MIPS Application to the detection of CO and the decontamination of chemical nerve agents

14:40 to 15:00

Lali Medina-Kauwe (*Biomedical Sciences/Cedars-Sinai Medical Center, Los Angeles, USA*), James Teh, Felix Alonso-Valenteen, Simoun Mikhael, Michelle Wong, Rebecca Benhaghazhar, Tianxin Miao, Hong-Qiang Wang, Sam Sances, Briana Ondatje, Romny Sanchez, Erik Serrano, John Yu, Clive Svendsen, Ravinder Abrol, Harry Gray, Zeev Gross

Systemic protein-corrole bioparticles cross multiple biological barriers to target metastatic tumors

15:00 to 15:20

David Churchill (*KAIST, Daejeon, Korea*), Xuan Zhan, Woohyun Lee, Donghyeon Kim, Qiu-Cheng Chen, Atif Mahammed, Zeev Gross

High performing CF₃-containing phosphorus corroles

15:20 to 15:40

Sankar Jeyaraman (*Indian Institute of Science Education and Research (IISER) Bhopal, Bhopal, India*), Sujesh S

Electronic Modulation via Peripheral Functionalization of Corroles

15:40 to 16:00

Karl Kadish (*University of Houston, Houston, USA*), W. Ryan Osterloh, Nicolas Desbois, Stéphane Brandès, Claude P. Gros

Electrochemistry of Metallocorroles and Metallodipyrin-bisphenols

16:00 to 16:30

Coffee Break (3rd Floor)

FRIDAY

S08 Advances in the chemistry and applications of porphyrazines

Room "Madrid 4"

Chaired by: Pavel Stuzhin & Petr Zimcik

14:00 to 14:20

Pavel A. Stuzhin (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*)

Non-metal complexes of electron-deficient porphyrazinoids

14:20 to 14:40

Sandra Belviso (*Università della Basilicata, Potenza, Italy*)

Aryl- and Heteroaryl-substituted Thioalkyl-Porphyrazines for Optoelectronic Applications

14:40 to 15:00

Tatiana Dubinina (*Department of Chemistry, Lomonosov Moscow State University, Moscow, Russia*),
Mikhail Belousov, Margaret Gradova

Carbazole-Annelated Mono and Binuclear Porphyrazines: Optical and Photochemical Properties

15:00 to 15:20

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

Phthalocyanine-based Electric-Double-Layer Transistors and Photoelectric Conversion

15:20 to 15:40

Saad Makhseed (*Kuwait University- chemistry department, Khaldi, Kuwait*)

Novel Phthalocyanine-Biomolecules Conjugates; Highly Potential Activity Assessed In Vitro PDT Efficacy

16:00 to 16:30

Coffee Break (3rd Floor)

FRIDAY

S15 Porphyrinoids at interfaces: On-surface chemistry and physico-chemical properties

Room "Madrid 5"

Chaired by: Willi Auwärter & David Écija

14:00 to 14:20

David Ecija (*Imdea Nanoscience, Ciudad Universitaria De Cantoblanco. Madrid, Spain*)

Lanthanides and porphyrins on surfaces

14:20 to 14:40

José Ignacio Urgel (*Imdea Nanociencia, Madrid, Spain*), Kalyan Biswas, Maxence Urbani, Ana Sánchez-Grande, Diego Soler, Pingo Mutombo, Koen Lauwaet, José María Gallego, Rodolfo Miranda, David Ecija, Pavel Jelínek, Tomás Torres

Inducing magnetism in one-dimensional porphyrinoid polymers synthesized *via* oxidative coupling of isopropyl substituents on a metal surface

14:40 to 15:00

Manuel Gruber (*Faculty of Physics and CENIDE, University of Duisburg-Essen, Duisburg, Germany*), Alexander Köbke, Florian Gutzeit, Rainer Herges, Richard Berndt

Coordination-induced spin state switching of a new complex on surfaces

15:00 to 15:20

Tadahiro Komeda (*IMRAM/Tohoku University, Sendai, Japan*), Masahiro Yamashita, Keiichi Katoh

Atomic-Scale Analysis of Spin State of Single Molecule Magnet Bis(phthalocyaninato)terbium(III) (TbPc₂) Adsorbed on Superconductor Surface

15:20 to 15:40

Aitor Mugarza (*Catalan Institute of Nanoscience and Nanotechnology - ICN2, Bellaterra (Barcelona), Spain*), M.G. Cuxart, M.A. Valbuena, R. Robles, C. Moreno, S.O. Valenzuela

Ligand and on-surface chemistry as a strategy to tune charge and spin interactions at surfaces

15:40 to 16:00

Martin Svec (*Institute of Physics, Czech Academy of Sciences, Praha, Czech Republic*), Jirí Doležal, Sofia Canola, Rodrigo Cezar de Campos Ferreira, Dana Nachtigallová, Pingo Mutombo, Pavel Jelínek, Pablo Merino

Every photon counts: tip-enhanced electroluminescence of single molecules

16:00 to 16:20

Yusoo Kim (*RIKEN, Wako, Japan*)

Single-molecule spectroscopy using localized surface plasmon

16:00 to 16:30

Coffee Break (3rd Floor)

FRIDAY

S20 Spin transport in molecular and nanoscale systems

Room "Cibeles / Puerta del Sol"

Chaired by: Michael Therien & Ron Naaman

14:00 to 14:20

Ryan Hadt (*California Institute of Technology, Pasadena, USA*)

Connecting Molecular Electronic Structure and Electron Spin Relaxation for Quantum Information Science

14:20 to 14:40

Martin Kirk (*Department of Chemistry and Chemical Biology, The University of New Mexico,, Albuquerque, USA*), David Shultz, Art van der Est

Spectroscopic and Magnetic Studies of Spin-Dependent Excited State Processes

14:40 to 15:00

Jeanne Crassous (*Univ Rennes - Institut des Sciences Chimiques de Rennes, Rennes, France*)

Helicene-porphyrin conjugates

15:00 to 15:20

David Beratan (*Department of Chemistry, Duke University, Durham, USA*)

A universal free-energy landscape for near-reversible electron bifurcation

15:20 to 15:40

David Shultz (*Department of Chemistry, Raleigh, USA*), Martin Kirk, Art van der Est

Designed Radical-Chromophore Exchange Controls Magnitude of Photoinduced Electron Spin Polarization in Electronic Ground States

15:40 to 16:00

Ron Naaman (*Weizmann Institute, Rehovot, Israel*)

Spin Transport through Chiral Systems

16:00 to 16:30

Coffee Break (3rd Floor)

FRIDAY

S23 Heme proteins and synthetic analogues

Room "Neptuno / Puerta de Alcalá"

Chaired by: John Dawson & Takashi Hayashi

14:00 to 14:20

Tsunehiko Higuchi (*Graduate School of Pharmaceutical Sciences, Nagoya, Japan*)

Synthetic heme chalcogenates: their marked differences and similarities in chemical and physicochemical property

14:20 to 14:40

Shingo Nagano (*Department of Chemistry and Biotechnology, Tottori University, Tottori, Japan*), Asami Miyazaki, Keisuke Fujiyama, Saki Yasuda, Yusuke Sato, Tomoya Hino, Ryota Akiyama, Bunta Watanabe, Masaharu Mizutani, Mitsuo Shoji, Yasuteru Shigeta

Structural Basis of Metabolic Detoxification of α -Tomatine by Various 2-Oxoglutarate-Dependent Dioxygenases

14:40 to 15:00

Michael T. Green (*UCI, Irvine, USA*)

Electronic Relaxation Data and the Importance of Excited State Mixing in Determining the Properties of Compound I

15:00 to 15:20

Yuma Morimoto (*Graduate School of Engineering, Osaka University, Suita, Osaka, Japan*), Kosuke Fukui, Hiroshi Fujii, Shinobu Itoh

Kinetic Investigations on Hydrogen Atom Abstraction by a Compound I Model Complex from Alkane Derivatives

15:20 to 15:40

Eftychia Pinakoulaki (*University of Cyprus, Department of Chemistry, Aglantzia, Cyprus*), Vasiliki Valianti, Androulla Ioannou

Nitrite Binding and Activation by Heme-Globins as Revealed by Resonance Raman Spectroscopy

15:40 to 16:00

John T. Groves (*Department of Chemistry, Princeton, USA*), Vincent Zheng, Micah T. Nelp, Syed Muhammad Saad Imran, Quinn Rademaker, David Ramirez, Nancy Tran, Mina Yu

Redox components of indoleamine 2,3-dioxygenase inhibition and immune regulation

16:00 to 16:30

Coffee Break (3rd Floor)

FRIDAY

Poster Program

Symposia of **Poster Session 1 - Tuesday, July 12, 2022**

Room "Colón / Retiro" - 3rd floor

SYNTHESIS

- S01** Subphthalocyanines, BODIPYs and related compounds
- S02** New phthalocyanines and related porphyrinoids –
Synthesis and properties
- S03** Corroles (Synthesis, properties and applications)
- S04** N-confused and other "mis-linked" porphyrins and
porphyrinoids
- S05** Porphycenes and other porphyrin isomers

Room "Callao - Gran Vía" - 3rd floor

CHARACTERIZATION & PROPERTIES

- S06** Exotic porphyrins and novel pyrrolic macrocycles
- S07** NIR-responsive porphyrinoids
- S08** Advances in the chemistry and applications of
porphyrazines
- S09** Hückel, Möbius, Baird and 3-dimensional aromaticity/
antiaromaticity in porphyrinoids
- *in honor of Atsuhiko Osuka*
- S10** Chiral aspects of porphyrin supramolecular chemistry

Symposia of **Poster Session 2 - Thursday, July 14, 2022**

Room "Colón / Retiro" - 3rd floor

MATERIALS

- S12** Porphyrin-based chemical sensors
- S13** Self-assembled systems and materials based
on porphyrinoids
- S14** Porphyrinoid biohybrid materials for
light management applications
- S15** Porphyrinoids at interfaces: On-surface chemistry and
physico-chemical properties

CATALYSIS & ENERGY

- S16** Porphyrinoids for catalytic reactions, including water
splitting, CO₂ reduction and utilization
- S17** From light harvesting to charge separation and
charge transport
- S18** Porphyrinoids for solar cells
- S19** Biomimetic solar conversion
- S20** Spin transport in molecular and nanoscale systems
- S21** Redox chemistry and electrochemistry of
porphyrinoids and oligopyrroles

Room "Callao - Gran Vía" - 3rd floor

BIOMEDICAL APPLICATIONS

- S22** Porphyrinoids-based systems for health

BIOLOGY & BIOCHEMISTRY

- S23** Heme proteins and synthetic analogues
- S24** Catalysis in natural and biosynthetic heme proteins
- S25** Chemistry and biology of corrinoids and
related compounds
- S26** Natural porphyrinoid pigments
- S27** Heme enzymes: Structure and function

THEORY & MODELLING

- S28** Theory and spectroscopy

Tuesday, July 12, 2022 - Poster Session 1

Room "Colón / Retiro" - 3rd floor

18:30 to 20:30

S01 Subphthalocyanines, BODIPYs and related compounds

S01-P-001

Oscar Fernandez Vera (*Universidad Autonoma de Madrid, Madrid, Spain*), Giovanni Bottari, Tomas Torres
Light-triggered Racemization of Enantiopure Samples of Axially-chiral Subphthalocyanine-“extended”
TCNQ-aniline Conjugates

S01-P-002

Gero Grunewald (*University of Kassel, Institute for Chemistry, Kassel, Germany*), Rüdiger Faust
Photoswitchable molecular wires with SubPcs as photoactive compounds

S01-P-003

Yuya Inaba (*Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Sapporo, Japan*),
Yasuhide Inokuma
Synthesis and Strain-induced Reactions of Calix[3]pyrrole and Related Macrocycles

S01-P-004

Sunit Kumar (*Department of Organic Chemistry, Universidad Autónoma de Madrid (UAM), Madrid, Spain*), Tomás Torres, Gema De la Torre
Stable Glucose Conjugated aza-BODIPY-Platinum Supramolecular Metallocage

S01-P-005

Elisa López Serrano (*Universidad Autónoma de Madrid, Madrid, Spain*), Jorge Labella, Tomás Torres
Polar, columnar Subphthalocyanine-based supramolecular structures: design, synthesis and
characterization

S01-P-006

Ekaterina Moiseeva (*Lomonosov Moscow State University/Department of Chemistry, Moscow, Russia*),
Alina Agranat, Maria Ivanova, Tatiana Dubinina
Synthesis, Photochemical Properties and in vitro Cytotoxicity of Substituted Boron Subphthalocyanines

S01-P-007

Narito Ozawa (*Hokkaido University, Japan, kitaku-kita 25 jo nishi, Japan*), Kilingaru I. Shivakumar,
Muthuchamy Murugavel, Yuya Inaba, Tomoki Yoneda, Yuki Ide, Yasuhide Inokuma
Alkali Metal Ion Capture Using Cyclic Polyketones and Application to Reactions

S01-P-008

Takahide Shimada (*Department of Applied Chemistry, Graduate School of Engineering, and Center for
Molecular Systems, Kyushu University, Fukuoka, Japan*), Masatoshi Ishida, Hiroyuki Furuta
Synthesis of Near-Infrared Absorbing Donor-Acceptor BODIPY Dyes as Two-Photon Photoacoustic
Imaging Contrast Agents

S01-P-009

Ivan Skvortsov (*Ivanovo State University of chemistry and Technology, Ivanovo, Russia*), Ulyana Kovkova, Pavel Stuzhin

The influence of combined azasubstitution and halogenation on properties of subphthalocyanine-type dyes

S01-P-010

Denise Täubert (*University of Kassel, Institute for Chemistry and CINSat, Chemistry of Mesoscopic Systems, Kassel, Germany*), Rüdiger Faust

Multi-Chromophore Ensembles with Subphthalocyanines and BODIPYs as Energy Transfer Systems for DSSCs

S01-P-011

Lorena Vogt (*University of Kassel, Kassel, Germany*), Rüdiger Faust

Controlled Storage and Release of Singlet Oxygen via Pyridone-Subphthalocyanine-Dyads

S01-P-012

Yitong Wang (*Graduate School of Engineering, Kyushu University, Fukuoka, Japan*), Soji Shimizu

Synthesis and Optical Properties of Donor-Acceptor-Donor Pyrrolopyrrole aza-BODIPYs

S01-P-013

Yuriy Zhabanov (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Alexander Pogonin, Ivan Kurochkin, Georgiy Girichev

Molecular structure of perfluorinated subphthalocyanine F₁₂-SubPcBCl

S01-P-014

Marta Gómez Gómez (*Universidad Autónoma de Madrid, Organic Chemistry Department, Madrid, Spain*), Jorge Labella, Tomás Torres

Synthesis, characterization and reactivity of borylated Subphthalocyanines

S02 New phthalocyanines and related porphyrinoids – Synthesis and properties

S02-P-001

Rüveyda Agcaabat (*Chemistry, Istanbul, Turkey*), Zafer Odabas

A New Research for Different Linkage Bridged Cobalt(II) Phthalocyanine Analog Compounds

S02-P-002

Rüveyda Agcaabat (*Chemistry, Istanbul, Turkey*), Zafer Odabas

Synthesis and characterization of oxo, thio, azo and imino bridged beta substituted metal-free phthalocyanine analogs

S02-P-003

Elena Cañizares (*Autónoma University of Madrid, Madrid, Spain*), M. Salomé Rodríguez-Morgade, Tomás Torres

Synthesis and Properties of Subphenanthrenocyanines

S02-P-004

Miffy (Hok Yan) Cheng (*Department of Biochemistry and Molecular Biology, UBC, Vancouver, Canada*), Alberto Cevallos, Maneesha A. Rajora, Gang Zheng

Fast, facile, base-free microwave-assisted metallation of bacteriochlorophylls and corresponding high yieldsynthesis of TOOKAD

S02-P-005

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

Azaphthalocyanines as dark quenchers in triple labeled oligodeoxynucleotide probes

S02-P-006

Alexey Eroshin (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Yuriy Zhabanov

Vapor composition over metal-free tetrabenzoporphyrin and its complex with zinc (II)

S02-P-007

Jose Garcés Garcés (*Universidad Miguel Hernández de Elche, Spain*), Nathalie Zink Lorre, Ana María Gutierrez Vilchez, Alberto García Ros, Carlos Cascales Guerrero, Irene Mateo Navarro, Jorge Follana Berná, Ángela Sastre Santos, Fernando Fernández Lázaro

Synthesis of Fused-Phthalocyanine-Perylenebenzimidazole Systems

S02-P-008

Elena Gorbunova (*MSU, Moscow, Russia*), Tatiana Dubinina, Darya Stepanova, Andrey Sybachin

Synthesis, solubilization and cytotoxic activity of chlorinated lutetium(III) phthalocyanines

S02-P-009

Gizem Gumusgoz Celik (*Chemistry / Gebze Technical University, Kocaeli, Turkey*), Belgin Sahin, Sadin Ozdemir, Serpil Gonca, Ayse Gul Gurek, Devrim Atilla

Axially substituted silicone phthalocyanines : synthesis, characterization, photochemical and photophysical, antioxidant activity, DNA cleavage and antimicrobial PDT properties

S02-P-010

Marie Halaskova (*Department of Biochemical Sciences, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Tomas Torres, Veronika Novakova, Andres de la Escosura, Petr Zimcik, Miloslav Machacek

Biological evaluation of peripherally crowded cationic phthalocyanines as photosensitizers for photodynamic therapy of tumours

S02-P-011

Mikhail Islyaikin (*Ivanovo State University of Chemistry and Technology, G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo / Ivanovo, Russia*), Tat'yana Lomova

Main group macrocyclic oligopyrrole complexes: outlook on synthesis and application

S02-P-012

Lucia Kociscakova (*Faculty of Pharmacy in Kradec Králové, Charles University, Hradec Králové, Czech Republic*), Magdalena Kozlikova, Carola Rando, Vladimir Sindelar, Petr Zimcik

Synthesis of Phthalocyanines for Supramolecular Interaction with Cucurbituril and Studying Their Properties

S02-P-013

Jan Kollár (*Faculty Of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic*), Petr Zimcik, Barbora Sidorova

Synthesis of unsymmetrical phthalocyanines for photoinduced drug release

S02-P-014

Magdalena Kozlikova (*Faculty of Pharmacy in Hradec Kralove, Hradec Kralove, Czech Republic*), Lenka Brieslingerova, Veronika Novakova, Miloslav Machacek

Photodynamic therapy with water-soluble phthalocyanines and their efficacy against 3D tumor multicellular spheroids

S02-P-015

Aviwe Magadla (*Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa*), Balaji Babu, John Mack, Tebello Nyokong

Positively charged styryl pyridine substituted Zn (II) Phthalocyanines for Photoantimicrobial Chemotherapy: Effect of the number of charges

S02-P-016

Laura Mancini (*CNR-ISM, Montelibretti (ROMA), Italy*), Anna Maria Paoletti, Gloria Zanotti

Sustainable approaches to the synthesis and functionalization of state-of-art and novel phthalocyanines for technological applications

S02-P-017

Emel Onal (*Dogus University, Istanbul, Turkey*), Umit Isci, Sevinc Zehra Topal, Ismail Fidan, Savas Berber, Vefa Ahsen, Concepcion Parejo, Angela Sastre-Santos, Fabienne Dumoulin

meso-tetra-dihydro benzocyclobutacenaphthylene free-base porphyrin: synthesis and characterization

S02-P-018

Yana Philippova (*Universidad Autónoma de Madrid, Madrid, Spain*), Mikhail Islyaikin, M. Salomé Rodríguez-Morgade, Tomás Torres

Synthesis of hemihexaphyrazines

S02-P-019

Takahiro Sakurai (*Nagoya university, Nagoya City, Japan*), Yoshihiro Miyake

Synthesis and Properties of Outer-Palladated Tetrapyrrolyldiazaporphyrin Complexes

S02-P-020

Alia Alwedyan (*Yarmouk University, Irbid, Jordan*), Khaled Al-Qaoud, Tomás Torres, M. Salomé Rodríguez-Morgade, Ángeles Juarranz de la Fuente

Metallophthalocyanine-based nanoparticles for photodynamic therapy (PDT)

S03 Corroles (synthesis, properties and applications)

S03-P-001

Dmitry Berezin (*Organic Chemistry Department / Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Anastasiya Likhonina, Dmitry Karimov, Mikhail Krest'yaninov, Mikhail Berezin

H-Bonding Stabilized Molecular Complexes of Phenyl-Substituted Corroles and Other Porphyrinoids With Electron Donor Solvents

S03-P-002

Simon Eulberg (*Technische Universität Braunschweig, LAAC, Braunschweig, Germany*), Martin Bröring

Antimony Corroles

S03-P-003

Claude P. Gros (*Université de Bourgogne, ICMUB (UMR CNRS 6302), Dijon, France*), Nicolas Desbois, Sandrine Kappler-Gratias, Léo Bucher, Sokunthea Top, Charlotte Quentin-Froignant, Stéphane Bertagnoli, Matthieu Louison, Emma Monge, Alain Bousquet-Melou, Marlène Lacroix, Franck Gallardo

Antipoxvirus Activity Evaluation of Optimized Corroles Based on Development of Autofluorescent ANCHOR Myxoma Virus

S03-P-004

Claude P. Gros (*Université de Bourgogne, ICMUB (UMR CNRS 6302), Dijon, France*), Jian Yang, Laurie André, Nicolas Desbois, Stéphane Brandès

2D/3D Covalent Organic Frameworks Based on Cobalt Corroles for CO Binding

S03-P-005

Sebastian Günther (*Technische Universität Braunschweig/ IAAC, Braunschweig, Germany*), Martin Bröring

Pathways to Early Transition Metal Corroles

S03-P-007

Beata Koszarna (*Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland*), Daniel T. Gryko, John A. Clark, Harry B. Gray, Valentine I. Vullev, Rafal Orlowski

Polypeptide Oligomers Comprised of Corroles – Hydrogen Bonding Provides “Short-Circuit” Coupling Pathways for Electron Transfer

S03-P-008

Jens Krumsieck (*TU Braunschweig, Institut für Anorganische und Analytische Chemie, Braunschweig, Germany*), Martin Bröring

PorphyStruct – Structural Analysis of Porphyrinoids

S03-P-009

Nina Schulze (*Technische Universität Braunschweig, IAAC, Braunschweig, Germany*), Martin Bröring

Manganese 10-Thiacorroles

S03-P-010

Vinay Sharma (*Technion-Israel Institute of Technology, Haifa, Israel*), Zeev Gross

Dimeric Corrole Analogs of Chlorophyll Special Pairs

S03-P-011

Ali Tuna (*University of Turku, Turku, Finland*), Pekka Peljo, Roberto Paolesse, Günther Knör

Synthesis, Spectroscopy and Electrochemistry of 5,10,15-Tris(pentafluorophenyl)corrolatoindium(III)

S03-P-012

Inderpal Yadav (*Indian Institute of Technology Roorkee, Roorkee, India*), Muniappan Sankar

Synthesis and Studies of Tetracyanobutadiene and Dicyanoquinodicyanomethane appended π -Extended Metallocorroles

S04 N-confused and other “mis-linked” porphyrins and porphyrinoids

S04-P-001

Jibin Alex Abraham (*Department of Pharmaceutical Chemistry and Pharmaceutical Analysis, Charles University, Hradec Kralove, Czech Republic*), Masatoshi Ishida, Hiroyuki Furuta

Binuclear Rhodium(III) Complex of N-Fused Porphyrin: A π -Extended NIR Absorbing Analogue of Cyclopentadienyl Rhodium(III) Dichloride Dimer

S04-P-002

Osamu Iwanaga (*Kyushu University, Fukuoka, Japan*), Masatoshi Ishida, Hiroyuki Furuta

Synthesis and Redox Properties of Ag(III) and Ni(II) Complexes of Triply Fused N-Confused Porphyrin Dimers

S04-P-003

Monika Przewoznik (*University of Wroclaw, Department of Chemistry, Wroclaw, Poland*), Bartosz Szyszko, Emilia Ganczar, Lechoslaw Latos-Grazynski

21-Carbaporphyrin-2,3,21-trione - a Cyclopentane-1,2,4-trione Moiety Entrapped into the *meso*-Tetraarylporphyrin Framework

S05 Porphycenes and other porphyrin isomers

S05-P-001

Sharat Devadas (*Department of Photochemistry and Spectroscopy, Institute of Physical Chemistry Polish Academy of Sciences, Warsaw, Poland*), Jacek Waluk

Synthesis of Porphyrinoid-PDMS Polymers for Analysis of Light-Matter Coupling in Optical Cavities

S05-P-002

Agnieszka Gajewska (*Institute of Physical Chemistry Polish Academy of Sciences, Warsaw, Poland*), Idaresit Mbakara, Arkadiusz Listkowski, Jacek Waluk

Novel meso-disubstituted porphycenes: Synthesis and properties

S05-P-003

Idaresit Mbakara (*Institute of Physical Chemistry, Polish Academy of Sciences, Warszawa, Poland*), Agnieszka Gajewska, Arkadiusz Listkowski, Jacek Waluk

Photophysics and Photostability of Porphycenes Bearing Electron-Donating and Accepting Moieties

Room "Callao - Gran Vía - 3rd floor

18:30 to 20:30

S06 Exotic porphyrins and novel pyrrolic macrocycles

S06-P-001

Adewole O. Atoyebe (*Department of Chemistry/University of Connecticut, Storrs, USA*), Michael P. Luciano, Matthias Zeller, Christian Brückner

Understanding the Failure to Generalize the Reversed 'Breaking and Mending' Strategy Towards Pyrrole Modified Porphyrins Containing Large Heterocycles

S06-P-002

Filip Bozinovic (*Department of Chemistry & Pharmacy and Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany*), Max Martin, Norbert Jux

Selective synthesis of GNRs towards directly linked porphyrin-GNR conjugates

S06-P-003

Amir Sohel Bulbul (*Indian Institute of Technology Roorkee, Roorkee, India*), Muniappan Sankar

β -Functionalized π -Extended Porphyrins: Facile Synthesis, Spectral, Electrochemical Redox Properties, and Their Utilization as Efficient Two-Photon Absorbers

S06-P-004

Dinusha Damunupola (*Department of Chemistry, University of Connecticut, Storrs, USA*), Xu-Liang Jiang, Christian Brückner

Synthesis of Neutral, Low Molecular Weight, *meso*-tetra(dioxanyl)porphyrins of Considerable Solubility in Aqueous Solutions

S06-P-005

Lampros-Pascal Gazetas (*Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany*), Michael Ruppel, Dominik Lungerich, Norbert Jux

Highly functionalized tetrabenzoporphyrins

S06-P-006

Rebecca Guldi (*Department of Chemistry and Pharmacy & Interdisciplinary Center for Molecular Materials (ICMM), Friedrich-Alexander-Universität, Erlangen, Germany*), Norbert Jux

Investigation of Bis-Porphyrin-Functionalized Polycyclic Aromatic Hydrocarbon Model Compounds

S06-P-007

Jens Krumsieck (*TU Braunschweig, Institut für Anorganische und Analytische Chemie, Braunschweig, Germany*), Cagla Bas, Nina Schulze, Dominik Körner, Jendrik Rusche, William-Dale Möller, Martin Bröring

Metalloisoporphyrins

S06-P-008

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

Strong Two-photon Absorption and Ultrafast Dynamics in *Meso*-Functionalized "Push-Pull" Trans-A₂BC Porphyrins

S06-P-009

Soni Kumari (*Indian Institute of Technology Roorkee, Roorkee, India*), Muniappan Sankar
Synthesis, Spectral, and Electrochemical Studies of β Tetracyanobutadiene Appended π -Extended Porphyrins

S06-P-010

Christoph Oleszak (*Department of Chemistry & Pharmacy and Interdisciplinary Center for Molecular Materials, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany*), Max Distel, Christian Ritterhoff, Bernd Meyer, Norbert Jux
Nanographene-Fused Porphyrins

S06-P-012

Muniappan Sankar (*Indian Institute of Technology Roorkee, Roorkee, India*), Renu K. Rohal, J. N. Acharaya, G. V. Prakash
Synthesis, Spectral, Electrochemical, and Nonlinear Optical Properties of β -Substituted "Push-Pull" Porphyrins

S06-P-013

Muniappan Sankar (*Indian Institute of Technology Roorkee, Roorkee, India*), Varusha Bhardwaj
Synthesis, Spectral and Electrochemical Studies of β -Cyano Substituted Porphyrins

S06-P-014

Barbara Scholz (*Friedrich-Alexander-Universität Erlangen-Nürnberg Organic Chemistry II, Erlangen, Germany*), Pascal Gazetas, Marina Kinzelmann, Swathi Krishna, Dirk Guldi, Thomas Drewello, Norbert Jux, Andreas Hirsch, Eugenia Pérez-Ojeda
Hosting Fullerenes using Tetrabenzoporphyrin Dimers

S06-P-015

Oskar Smaga (*Department of Chemistry, University of Wrocław, Wrocław, Poland*), Sha Li, Yahan Sun, Xiaofang Li, Sebastian Koniarz, Marcin Stepień, Piotr J. Chmielewski
1,3-Dipolar Cycloaddition of Polycyclic Azomethine Ylide to Norcorroles: Towards Dibenzoullazine-fused Derivatives

S07 NIR-responsive porphyrinoids

S07-P-001

Md Ashif Ali (*Department of Chemistry, IIT Bombay, Mumbai, India*), Mangalampalli Ravikanth
Synthesis of a Tellurium Containing Porphyrinoids

S07-P-003

Wojciech Stawski (*Oxford University, Oxford, United Kingdom*), Jeff M. Van Raden, Peter N. Horton, Simon J. Coles, Harry L. Anderson
Fusion of Porphyrins Within a Strained Nanoring: Porphyrin Tape - Cycloparaphenylene Hybrids

S07-P-004

Bharti Yadav (*Department of chemistry IIT Bombay, Mumbai, India*), Ravikanth Mangalampalli
Synthesis of Fluorene Embedded Porphyrinoids

S08 Advances in the chemistry and applications of porphyrazines

S08-P-001

Mary Angelia Alfred (*Faculty of Pharmacy, Charles University, Hradec Kralove, Czech Republic*),
Veronika Novakova

Metal Ion Detection by Macrocycles with Sensitive Axial Ligands

S08-P-002

Tatiana Dubinina (*Department of Chemistry, Lomonosov Moscow State University, Moscow, Russia*),
Mikhail Belousov

Synthesis and Optical Properties of Substituted Carbazolocyanine Ligand

S08-P-003

Tatiana Dubinina (*Department of Chemistry, Lomonosov Moscow State University, Moscow, Russia*),
Anton Kosov, Michael Seliverstov, Ivan Burtsev, Alexey Kostyukov, Anton Egorov, Vladimir Kuzmin

Novel Octa-Phenoxy Substituted Pyrazinoporphyrazines: Synthesis and Photochemical Properties

S08-P-004

Daniil Finogenov (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*),
Yuriy Zhabanov, Pavel Stuzhin

Vanadyl TPyzPz as Material for Organic Electronic, Synthesis and Properties.

S08-P-005

Michaela Kolářová (*Charles University, Faculty of Pharmacy in Hradec Králové, Hradec Králové, Czech Republic*), Anita Mulaku, Veronika Nováková, Miroslav Miletín, Petr Zimčík

The Influence of a Solvent and a Delivery System on a Dissociation of the Central Metal of Magnesium Phthalocyanines and Tetrapyrzinoporphyrazines in Acidic Media

S08-P-006

Dmitriy Lazovski (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*),
Ivan Skvortsov, Veronika Novakova, Pavel Stuzhin

Aryloxyphosphorus(V) tetrapyrzinocorrolazines as fluorescent sensors and switchable photosensitizers

S08-P-007

Miroslav Miletín (*Charles University, Faculty of Pharmacy, Hradec Kralove, Czech Republic*),
Michaela Kolarova, Jiri Demuth, Rahul Kaushik

Efficiency of Strain Promoted Azide-Alkyne Cycloaddition of Azaphthalocyanine Fluorescence Quencher and BODIPY Fluorophore with Oligonucleotides

S08-P-008

Ekaterina Rychikhina (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*),
Pavel Stuzhin, Svetlana S. Ivanova

Synthesis and comparative study of Si(IV) complexes with octaphenyl substituted porphyrazine and corrolazine

S09 Hückel, Möbius, Baird and 3-dimensional aromaticity/antiaromaticity in porphyrinoids - in honor of Atsuhiko Osuka

S09-P-001

Stéphane Le Gac (*Institut des Sciences Chimiques de Rennes (UMR CNRS 6226), University of Rennes 1, Rennes, France*), Hervé Ruffin, Arnaud Fihey, Bernard Boitrel

Möbius Zn(II)-hexaphyrins bearing a chiral coordinating arm: a chiroptical switch featuring P/M twist inversion controlled by achiral effectors

S09-P-002

Stéphane Le Gac (*Institut des Sciences Chimiques de Rennes (UMR CNRS 6226), University of Rennes 1, Rennes, France*), Mickaël Ménand, Bernard Boitrel, Matthieu Sollogoub, Rajaa Benchouaia, Nicolas Cissé, François Robert

Hexaphyrin-cyclodextrin hybrids: the story so far

S09-P-003

Siyu Liu (*Graduate School of Engineering, Nagoya University, Nagoya, Japan*), Natsuki Kishida, Norihito Fukui, Michito Yoshizawa, Hiroshi Shinokubo

Realization of Stacked-Ring Aromaticity in a Water-Soluble Micellar Capsule

S09-P-004

Akito Nakai (*Graduate School of Science, Kyoto University, Sakyo-ku, Japan*), Takayuki Tanaka, Atsuhiko Osuka

Tetrabromo[36]octaphyrin: A Promising Precursor of Directly Fused Porphyrin(2.1.1.1) Dimer and meso- α Fused N-Confused Porphyrin Dimer

S10 Chiral aspects of porphyrin supramolecular chemistry

S10-P-001

Nele Konrad (*Tallinn University of Technology, Tallinn, Estonia*), Matvey Horetski, Mariliis Sihtmäe, Irina Osadchuk, Khai-Nghi Truong, Victor Borovkov, Riina Aav, Dzmitry Kananovich

Porphyrin-Based (Chir)Optical Sensing of Amino-Functionalized Thiourea Organocatalysts

S10-P-002

Marko Sakarasvili (*TalTech, Tallinn, Estonia*), Lukas Ustrnul, Nele Konrad, Victor Borovkov, Riina Aav
Chirogenic Interaction of Chiral Cyclohexanohemicurbit[n]urils with Bis(Zn Porphyrin)

Thursday, July 14, 2022 - Poster Session 2

Room "Colón / Retiro" - 3rd floor

17:30 to 19:30

S12 Porphyrin-based chemical sensors

S12-P-001

Fabienne Dumoulin (*Acibadem University, Istanbul, Turkey*), Haifa Ben Aziza, Atefeh Emami, Haziq Naseer Khan, Umit Isci, Hélène Dorizon, Hafsa Korri-Youssoufi

Porphyrins or phthalocyanines: how the porphyrinoidic macrocycle affects the biosensing properties of graphene

S12-P-002

Amir Sohel Bulbul (*Indian Institute of Technology Roorkee, Roorkee, India*), Muniappan Sankar

Synthesis, Spectral and Electrochemical Studies of Triply Fused Porphyrins and Their Utilization in Anion Sensing

S12-P-003

Benoit Lessard (*University of Ottawa, Ottawa, Canada*)

Phthalocyanine-based organic thin-film transistor sensors for cannabinoid sensing

S12-P-004

Elliott Nunn (*School of Chemistry, University of Manchester, Manchester, United Kingdom*), David Roberts, Mark Quinn, Louise Natrajan

Screening a Wide Range of Porphyrin Luminophores for Novel Pressure Sensitive Paint Formulations

S12-P-005

Michela Ottolini (*Department of Engineering of Innovation, Lecce, Italy*), Nitika Grover, Simona Bettini, Gabriele Giancane, Ludovico Valli, Mathias O. Senge

Porphyrin-cubane/BCP arrays as sensor for metal perchlorates

S12-P-006

María Luz Rodríguez-Méndez (*Química Física y Química Inorgánica, Valladolid, Spain*), Cristina Fernández-Sánchez, Jose Luis Pura, Coral Salvo-Comino, Clara Pérez-González, Cristina García-Cabezón, María Luz Rodríguez-Méndez

Synergistic effect between AgNWs and metallic phthalocyanines for electrochemical applications

S12-P-007

Georg Schwendt (*Institute of Analytical Chemistry and Food Chemistry/Graz University of Technology, Graz, Austria*), Sergey Borisov

Thermally Activated Delayed Fluorescence in π -Extended Palladium(II) and Platinum(II) Porphyrins

S13 Self-assembled systems and materials based on porphyrinoids

S13-P-001

Tamara Basova (*Nikolaev Institute of Inorganic Chemistry, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia*), Larissa Maiorova, Denis Salnikov, Oscar Koifman

IR and Raman spectroscopy study of nanostructured LS films of vitamin B12 derivative

S13-P-002

Charles H. Devillers (*Institut de Chimie Moléculaire de l'Université de Bourgogne, Dijon, France*), Ludvine Poyac, Clémence Rose, Mohammad Wahiduzzaman, Aurélien Lebrun, Guillaume Cazals, Pascal G. Yot, Sébastien Clément, Sébastien Richeter

Synthesis and Encapsulation Properties of Porphyrin Cages Assembled from N-heterocyclic Carbene-Metal Bonds

S13-P-003

Marina González Sánchez (*Departamento Química Orgánica, Universidad Autónoma de Madrid, MADRID, Spain*), Alberto de Juan Garrudo, David González Rodríguez

Functional Nanostructured Molecular Architectures for Optoelectronic Applications

S13-P-004

Younghun Kim (*Yonsei University, Seoul, Korea*), Woo-Dong Jang

Supramolecular assembly of porphyrin derivatives having multiple ion binding sites

S13-P-005

Sergei Kuzmin (*G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia*), Denis Salnikov, Larissa Maiorova, Vladimir Parfenyuk, Oscar Koifman

Redox properties of nanostructured LS films of vitamin B12 derivative

S13-P-006

Jeong Heon Lee (*Department of Chemistry/Yonsei University, Seoul, Korea*), Woo-Dong Jang

Formation of Tetrapyrrolic Macrocyclic-based Supramolecular Assembly

S13-P-007

Alba Martínez-Muñoz (*QUIPRE Departament, Santander, Spain*), Alberto De Juan, David González-Rodríguez, Miguel García-Iglesias

Porphyrin based self-assembled nanocages

S13-P-008

Ekaterina Moiseeva (*Department of Chemistry/Lomonosov Moscow State University, Moscow, Russia*), Anton Kosov, Tatiana Dubinina, Stanislav Trashin

Novel A₃B-type Phthalocyanine with Terminal Thioacetate Group for Self-assembled Monolayers on a Gold Surface

S13-P-009

Irene Paramio (*Universidad Autónoma de Madrid, Madrid, Spain*), Gema de la Torre, Tomas Torres

Synergistic Photodynamic and Photothermal Therapy of binaphthyl-Bridged ABB Phthalocyanines

S13-P-010

Hyunjun Park (*Department of Chemistry/Yonsei University, Seoul, Seodaemun-gu, Korea*),
Woo-Dong Jang

Formation of zinc porphyrin network via non-covalent interaction

S13-P-011

Kilian Schöll (*Department of Chemistry and Pharmacy, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany*), Benedikt Platzer, Dirk M. Guldi, Norbert Jux

Supramolecular Porphyrin Conjugates with Pyridinic Nanographenes

S13-P-012

Marina Volostnykh (*Frumkin Institute of Physical chemistry and Electrochemistry Russian academy of sciences, Moscow, Russia*), Gayane Kirakosyan, Anna Sinelshchikova, Polina Loboda, Yulia Gorbunova, Maxim Sokolov, Aslan Tsivadze

Supramolecular Assemblies of Ru(II) and Zn(II) Porphyrins and Octahedral Mo(II) Iodide Cluster

S13-P-013

Joseph Woods (*University of Zurich, Zurich, Switzerland*), Lucía Gallego Aibar, Pauline Pfister, Andreas Vargas Jentzsch, Michel Rickhaus

From Saddles to Sheets: Synthesis and Properties of Carpyridines

S14 Porphyrinoid biohybrid materials for light management applications

S14-P-001

Tatevik Chilingaryan (*University Lorraine, Nancy, France*), Ryan Osterloh, Celine Frochot, Benoit Habermeyer, Roger Guillard, Karl M. Kadish

Influence of counteranions on electrochemical properties of water-soluble porphyrins

S15 Porphyrinoids at interfaces: On-surface chemistry and physico-chemical properties

S15-P-001

Miguel Martínez (*Departamento de Química Orgánica, Universidad Autónoma de Madrid, Madrid, Spain*), Giovanni Bottari, Tomás Torres, Roman Fasel

On-surface Synthesis and Atomic-scale Characterization of [3]Triangulene-fused Porphyrins

S15-P-002

Florian Münster (*Philipps-Universität Marburg, Marburg, Germany*), Jan Herritsch, Stefan R. Kachel, Qitang Fan, Mark Hutter, Lukas J. Heuplick, J. Michael Gottfried

On-surface Porphyrin Transmetalation with Pb/Cu Redox Exchange

S16 Porphyrinoids for catalytic reactions, including water splitting, CO₂ reduction and utilization

S16-P-001

Fotis Anastasiadis (*University of Crete / Chemistry Department, Heraklion, Greece*), Emmanouil Orfanos, Kalliopi Ladomenou, Maria Perraki, Panagiotis Angaridis, Athanassios G. Coutsolelos

Diverse Zn porphyrin structures effect the photocatalytic H₂ production

S16-P-002

Deepak Bansal (*Materials Research and Technology, Esch/Alzette, Luxembourg*), Drialys Cardenas Morcoso, Nicolas Boscher

Engineering Fused Ni(II) Porphyrin polymer: Effect of Substituent on Electro-chemical and Opto-electronic Properties

S16-P-003

Georgios Charalambidis (*University of Crete / Chemistry Department, Heraklion, Greece*), Kalliopi Ladomenou, Georgios Landrou, Emmanouil Nikoloudakis, Aspasia Stoumpidi, Athanassios G. Coutsolelos

Olive leaves-derived carbon dots for efficient photocatalytic H₂ production and CO₂ reduction

S16-P-004

Umit Isci (*Gebze Technical University, Kocaeli, Turkey*), Cigdem Yüceel

Heteroleptic heterometallic μ -nitrido porphyrin-phthalocyanine complexes: macrocycle vs metal variations on oxidation catalysis

S16-P-005

Umit Isci (*Gebze Technical University, Kocaeli, Turkey*), Cigdem Yüceel, Zeynel Sahin

Oxidation of cyclohexene by iron phthalocyanines: effect of electron donating or electron withdrawing substituents

S16-P-006

Sachin Kumar (*Israel institute of technology, technion, haifa, Haifa, Israel*), Zeev Gross

Synthesis of the parent corrole and catalytic applications of the corresponding metal complexes

S16-P-007

Ludivine Poyac (*ICGM, Montpellier University, Montpellier, France*), Michel Granier, Stefano Scoditti, Rafael Gramage-Doria, Sébastien Clément, Nicolas Brun, Xavier Dumail, Charles Devillers, Winfried Leibl, Annamaria Quaranta, Ally Aukauloo, Sébastien Richeter

Catalytic Properties of Porphyrins Bearing Peripheral N-Heterocyclic Carbene Rhodium Complexes

S17 From light harvesting to charge separation and charge transport

S17-P-001

Lucía Gallego (*Department of Chemistry, University of Zurich, Zurich, Switzerland*), Patrick Zwick, Michel Rickhaus

Saddle-Shaped Porphyrinoids for Energy Transfer

S17-P-002

Rosanna Pagano (*Department of Biological and Environmental Sciences and Technology (DiSTeBA), University Campus Ecotekne, University of Salento, Italy*), Michela Ottolini, Simona Bettini, Gabriele Giancane, Ludovico Valli

Green and fast synthesis of porphyrin-Ag nanostructured adducts for photocatalytic applications

S17-P-003

Prashanth Poddutoori (*Department of Chemistry & Biochemistry, University of Minnesota Duluth, Duluth, USA*), Niloofar Zarrabi, Brandon Bayard, Sairaman Seetharaman, Paul Karr, Art van der Est, Francis D'Souza

Photoinduced Energy and Electron Transfer in Cofacial Porphyrin Heterodimers

S17-P-004

Victor Sobrino-Bastan (*Área de Química Orgánica, Instituto de Bioingeniería, Universidad Miguel Hernández, Elche (Alicante), Spain*), Jorge Follana-Berna, Anthony E. Gúzman, Freddy E. Oropeza, Luis Martín-Gomis, Yolanda Pérez, Patricia Horcajada, Ángela Sastre-Santos

CO₂ Electrochemical Reduction and Phthalocyanines: linkers on Metal-Organic Framework Catalysts.

S18 Porphyrinoids for solar cells

S18-P-001

Fotis Anastasiadis (*University of Crete / Chemistry Department, Heraklion, Greece*), Magdalini Topouza, Kalliopi Ladomenou, Georgios Charalambidis, Athanassios G. Coutsolelos

Synthesis and Characterization of Bis-Functional Electron-Donor and Electron-Acceptor Porphyrins for Application in Dye-Sensitized Solar Cells

S18-P-002

Athanassios Coutsolelos (*University of Crete, Heraklion, Greece*), Georgios Charalambidis, Anastasia Soultati, Stylianos Panagiotakis, Michael Papadakis, Azhar Fakharuddin, Filippo De Angelis, Mohammad Khaja Nazeeruddin, Maria Vasilopoulou

Porphyrinoid Derivatives with Application in Light Harvesting Photovoltaic Systems

S18-P-003

Adrián Hernández García (*Área de Química Orgánica, Instituto de Bioingeniería, Universidad Miguel Hernández, Elche, Spain*), Peng Huang, Javier Ortiz, S. Kazim, S. Ahmad, Ángela Sastre-Santos

Synthesis and Characterization of Fluorinated Phthalocyanines as Hole Transporting Materials in Perovskite Solar Cells

S18-P-004

Mine Ince (*Natural and Mathematical Science, Tarsus University, MERSIN, Turkey*), Sifa Dogan, Buse Sert, Perihan Kübra Demircioglu, Kasim Ocaoglu, Ersan Harputlu
Subphthalocyanines for Dye-Sensitized Solar Cells

S18-P-005

Desire Molina Alcaide (*Área de Química Orgánica, Universidad Miguel Hernández de Elche, Elche, Spain*), Lydia Ferrer, Meenakshi Pegu, Maria Castillo, Javier Forner-Bonmati, S. Kazim, S. Ahmad, Angela Sastre-Santos
Perovskite Solar Cells with Diethynyl-Conjugated Zinc-Phthalocyanine Dimers as Hole-Transporting Materials for Improved Stability

S19 Biomimetic solar conversion

S19-P-001

Georgios Charalambidis (*University of Crete / Chemistry Department, Heraklion, Greece*), Vasilis Nikolaou, Georgios Landrou, Emmanouil Nikoloudakis, Asterios Charisiadis, Aurélien Planchat, Eleni Agapaki, Fabrice Odobel, Athanassios G. Coutsolelos
Porphyrin based dye-sensitized photocatalytic systems for efficient photocatalytic H₂ production

S19-P-002

Athanassios Coutsolelos (*University of Crete, Heraklion, Greece*), Georgios Charalambidis, Emmanouil Nikoloudakis, Maria Pigiaki, Maria N. Polychronaki, Vasilis Nikolaou, Anna Mitraki, Panagiotis A. Loukakos
Photocatalytic Hydrogen Evolving Systems Based on Self-assembled Porphyrin-Dipeptide Hybrids

S20 Spin transport in molecular and nanoscale systems

S20-P-001

Melissa El Bitar Nehme (*Department of Chemistry, Zürich, Switzerland*), Michel Rickhaus
Design, Synthesis, and Study of Tunable Spin Information Relays in Metalated Porphyrin Systems

S21 Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

S21-P-001

Fatima Akhssas (*Institute of Molecular Chemistry of the University of Burgundy, Dijon (21), France*), Fatima Akhssas, Mathieu Berthelot, Abdou K. D. Dimé, Asmae Bousfiha, Julie Echaubard, Hélène Cattey, Paul Fleurat-Lessarda, Charles H. Devillers

Stepwise Oxidative C-C Coupling and/or C-N Fusion of Zn(II) *meso*-Pyridin-2-ylthio-Porphyrins

S21-P-002

Asmae Bousfiha (*ICMUB. Université de Bourgogne, DIJON, France*), Abdou K.D. Dimé, Julie Echaubard, Mathieu Berthelot, Amelle Mankou-Makaya, Julien Roger, Charles H. Devillers

Regioselective Amination of Porphyrins via Ring-Opening of Electrogenerated Pyridinium Precursors

S21-P-003

Jiping Hao (*Department of Chemistry and Biochemistry Graduate School of Engineering, Kyushu University, Fukuoka, Japan*), Soji Shimizu

Synthesis of Tetraaryl-Substituted 5,15-Dioxaporphyrin and its Oxidation to the Aromatic Dication

S21-P-004

Ali Tuna (*University of Turku, Turku, Finland*), Jenna Hannonen, Pekka Peljo

Preliminary Study on Metal and Substituent Effects of Aqueous Porphyrin-based Redox Flow Batteries Systems

Room "Callao - Gran Vía" - 3rd floor

17:30 to 19:30

S22 Porphyrinoids-based systems for health

S22-P-001

Dmitry Berezin (*Organic Chemistry Department / Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Andrey Kustov, Philipp Morshnev, Dmitry Belykh, Olga Shukhto, Svetlana Zolotkova, Dmitry Batov, Natal'ya Smirnova

Interaction of Potential PDT Chlorin e_6 Type Sensitizers With Micellar and Polymer Carriers in Aqueous Media

S22-P-002

Paolo Dognini (*School of Pharmacy and Biomolecular Sciences, Liverpool John Moores University, Liverpool, United Kingdom*), Talhat Chaudhry, Giulia Scagnetti, Kehinde Ross, Christopher R. Coxon, Francesca Giuntini

5,10,15,20-Tetrakis(pentafluorophenyl)porphyrin as Photoactive Scaffold for Peptide Cyclisation

S22-P-003

Ana Belén Domínguez Terol (*Universidad Autónoma de Madrid, Madrid, Spain*), M. Salomé Rodríguez Morgade, Tomás Torres Cebada

Axial Functionalization of Ruthenium Phthalocyanines for their Bioconjugation to nanocarriers for Cancer Photodynamic Therapy (PDT)

S22-P-004

Fabienne Dumoulin (*Acibadem University, Istanbul, Turkey*), Aymen Nabeel Yaseen, Umit Isci, Haifa Ben Aziza, Ayse Gul Gurek

NIR-absorbing propargylated phthalocyanines: design and synthetic strategies

S22-P-005

Atefeh Emami (*Acibadem University, Istanbul, Turkey*), Burak Özdemir, Oliver Voppichler, Umit Isci, Yann Bretonnière, Sandrine Cammas-Marion, Fabienne Dumoulin, Emel Onal

Comparative photophysical and photochemical study of Zn and Pd phthalocyanines tetra non-peripherally substituted with dimethoxyphenyl moieties

S22-P-006

Atefeh Emami (*Acibadem University, Istanbul, Turkey*), Burak Özdemir, Oliver Voppichler, Umit Isci, Sandrine Cammas-Marion, Emel Onal, Fabienne Dumoulin

Dimeric annulated fused photosensitising phthalocyanines for photodynamic therapy

S22-P-007

Rosa Fernandes (*University of Coimbra, Faculty of Medicine, Coimbra Institute for Clinical and Biomedical Research (iCBR), Coimbra, Portugal*), Sandra Beirão, Andreia Melo, Sara R. G. Fernandes, Beatriz Martins, João P. C. Tomé

Photodynamic Therapy with Bioconjugates in the Treatment of Age-related Macular Degeneration

S22-P-008

Mireia Jordà Redondo (*Universitat Ramon LLull - Institut Químic de Sarrià, Barcelona, Spain*), Jaume Nos, Ana Piqueras, M. Lluïsa Sagrista, Lydia Blay, Joan Francesc Julian, Santi Nonell

A photoimmunoconjugate for the treatment of breast cancer

S22-P-009

Aybike Karayel (*Acibadem Mehmet Ali Aydinlar University, Istanbul, Turkey*), Hamida Maouati, Umit Isci, Ipek Bickici, Ceyhun Yazici, Ayse Gül Gürek, Haifa Ben Aziza, Véronique Rosilio, Fabienne Dumoulin

Towards self-assembling cationic phthalocyanines - synthetic strategies, challenges and progresses

S22-P-010

Amina Merabti (*ICGM/IBMM, Montpellier, France*), Maxime Roger, Christophe Nguyen, Alessio Nocentini, Philippe Gerbier, Sébastien Richeter, Magali Gary-Bobo, Claudiu T Supuran, Sébastien Clément, Jean-Yves Winum

Carbonic Anhydrase Inhibitors Featuring a Porphyrin Scaffold

S22-P-011

Margaret Murage (*University of Nairobi, Nairobi, Kenya*), Edward Muge, Betty Mbatia, Solomon Derese, Edith Amuhaya

Mono and Metallo-substituted Porphyrins as Antimicrobial Agents Against Gram-Positive and -Negative Bacteria

S22-P-012

Iris Pontón (*Universitat Ramon Llull (URL), Barcelona, Spain*), David Sánchez-García

Mesoporous Silica Nanoparticles with a Photo-cleavable Protein Corona for Drug Delivery

S22-P-013

João Tomé (*IST-ULisboa, Lisboa, Portugal*), Sara Gamelas, Cátia Vieira, Maria Bartolomeu, Maria Faustino, Augusto Tomé, Adelaide Almeida, Leandro Lourenço

Antimicrobial Photodynamic Therapy of Gram-negative and Gram-positive Bacteria Through the Action of Cationic Si(IV) Phthalocyanines

S22-P-014

Martina Vermathen (*Dept. of Chemistry, Biochemistry & Pharm. Sciences, University of Bern, Bern, Switzerland*), Lea Moser, Ilche Gjuroski, Julien Furrer

Small Phospholipid Bicelles as Drug Delivery Vehicles for Porphyrinic Compounds

S22-P-015

Arno Wiehe (*biolitec research GmbH, Jena, Germany*), Benjamin F. Hohlfeld, Burkhard Gitter, Dorika Steen, Gerhard D. Wieland, Katharina Achazi, Keith J. Flanagan, Christopher J. Kingsbury, Nora Kulak, Rainer Haag, Mathias O. Senge

Structure and Biological Activity in BODIPYs Designed for PDT and Antimicrobial Phototherapy

S23 Heme proteins and synthetic analogues

S23-P-001

Mackenzie Field (*Department of Chemistry/UC Irvine, Irvine, USA*), Paul Oyala, Michael Green

Does Oxygen Spin Density Correlate with C-H Bond Activation Reactivity in Metal Oxo Compounds?

S23-P-002

Dominik Körner (*Institute of Inorganic and Analytical Chemistry, Braunschweig, Germany*), Tanja C. Böllersen, Martin Bröring

Artificial cofactors in heme proteins

S23-P-003

Kazuyoshi Muranishi (*Graduate School of Chemical Sciences and Engineering, Hokkaido University, Sapporo, Japan*), Koichiro Ishimori, Takeshi Uchida

Iron- and heme-mediated regulation of the nickel uptake system of *Vibrio cholerae* and physiological significance

S24 Catalysis in natural and biosynthetic heme proteins

S24-P-001

Jennifer DuBois (*Department of Chemistry and Biochemistry/Montana State University, Bozeman, USA*),
Monica Sanchez, Eric Boyd

Heme in the History of Life: Unexpected Heme Metabolism in Methanogenic Archaea

S24-P-002

Iryna Makarchuk (*University of Strasbourg, 67081 - Strasbourg, France*), Jan Kagi, Tatjana Gerasimova,
Daniel Wohlwend, Thorsten Friedrich, Frederic Melin, Petra Hellwig

The Small Molecules Reactivity of Homologous Cytochrome bd Oxidases from E.coli

S24-P-003

Hannah Palomino (*University of Michigan, Troy, USA*), Victor Sosa Alfaro, Sodiq Waheed,
Christo Christov, Nicolai Lehnert

YfeX– A New Platform for Carbene Transferase Development with High Intrinsic Reactivity

S25 Chemistry and biology of corrinoids and related compounds

S25-P-001

Krzysztof Dworakowski (*Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw, Poland*),
Sabina Pisarek, Artur Choluj, Michal Chmielewski, Sidra Hassan, Dorota Gryko

Vitamin B12-catalyzed reactions of alkyl bromides under visible light irradiation.

S25-P-002

Amber Liles (*Chemistry Department Syracuse University, Syracuse, USA*), Robert Doyle

Corrinated Glucagon to treat Hypoglycemia

S25-P-003

Keita Shichijo (*Graduate School of Engineering / Kyushu University, Fukuoka, Japan*), Yoshio Hisaeda,
Hisashi Shimakoshi

Synthesis and Characterization of π Expanded Vitamin B12 Derivatives and Evaluation of the Catalytic Activities

S25-P-004

Aleksandra Wincenciuk (*Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland*),
Sabina Smolen, Maciej Giedyk, Dorota Gryko

Vitamin B12-catalyzed difunctionalizations of olefins

S26 Natural porphyrinoid pigments

S26-P-001

Hitoshi Tamiaki (*Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan*), Kagari Oyagi, Shin Ogasawara

Diastereoselective Coordination of Pyridyl Terminal to Zinc Center in 13²-Epimeric Chlorophyll-*a* Derivatives

S26-P-002

Hitoshi Tamiaki (*Graduate School of Life Sciences, Ritsumeikan University, Kusatsu, Japan*), Kana Sakaguchi

Friedel-Crafts Alkylation of Arenes with a 3-Hydroxymethyl-Chlorophyll-*a* Derivative

S26-P-003

Kana Sakaguchi (*Ritsumeikan University, Kusatsu City, Japan*), Masashi Kishi, Yusuke Kinoshita, Hitoshi Tamiaki

Synthesis of zinc 20-substituted 3-hydroxymethyl-chlorophyll-*a* derivatives and their self-aggregation in an aqueous micelle solution

S26-P-004

Kagari Oyagi (*Ritsumeikan University, Kusatsu, Japan*), Shin Ogasawara, Hitoshi Tamiaki

Intramolecular asymmetric coordination of synthetic zinc chlorophyll-*a* derivatives

S27 Heme enzymes: Structure and function

S27-P-001

Arnab Kumar Nath (*School of Chemical Sciences, Indian Association for the Cultivation of Science, Kolkata, India*), Madhuparna Roy, Chinmay Dey, Somdatta Ghosh Dey

Formation of a Stable Compound I in the Peroxidase Activity of Heme Bound A β Complexes Associated with Alzheimer's Disease

S27-P-002

Issei Omura (*Graduate School of Chemical Sciences and Engineering, Hokkaido University, Sapporo, Japan*), Koichiro Ishimori, Takeshi Uchida

Constructing cytochrome c with enhanced dye-decolorizing activity

S27-P-003

Federico Sebastiani (*Dipartimento di Chimica 'Ugo Schiff' (DICUS), Università di Firenze, Sesto Fiorentino (FI), Italy*), Hanna Michlits, Andrea Dali, Maurizio Becucci, Stefan Hofbauer, Giulietta Smulevich

Molecular mechanism of the last step of the heme b biosynthesis pathway in Gram-positive bacteria

S28 Theory and spectroscopy

S28-P-001

Alexey Eroshin (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Ilya Kuzmin, Yuriy Zhabanov

Theoretical electronic spectra of metal-free tetrabenzoporphyrin and its metal complexes

S28-P-002

Ilya Kuzmin (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Alexey Eroshin, Arseniy Otlyotov, Yuriy Zhabanov

The influence of the nature of a metal atom on the electronic and geometric structures of the complexes with tetrabenzoporphyrin

S28-P-003

Frederico Martins (*Institut de Química Computacional i Catàlisi, Girona, Spain*), Marcel Swart

Electronic Properties of N-confused Metalloporphyrins

S28-P-004

Davide Ranieri (*Dipartimento di Chimica "Ugo Schiff"/Università degli Studi di Firenze, Sesto Fiorentino, Italy*), Fabio Santanni, Alberto Privitera, Andrea Albino, Enrico Salvadori, Mario Chiesa, Federico Totti, Lorenzo Sorace, Roberta Sessoli

A Novel Exchange Coupled m-m linked bis-Vanadyl 5, 10, 15-Triphenylporphyrin for Quantum Information Processing

S28-P-005

Ekaterina Rychikhina (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Alexey Eroshin, Yuriy Zhabanov, Igor Ryzhov

Theoretical electronic absorption spectrum of octachlorotetrapyrazinoporphyrazine complex with Ga

S28-P-006

Yuriy Zhabanov (*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*), Dmitriy Vyalkin, Tatiyana Tikhomirova, Kristina Kazaryan

Molecular structure and conformational composition of substituted complexes of phthalocyanine with aluminum and zinc

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Gorbunova, Elena
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Kuzmin, Ilya
Lazovskiy, Dmitriy
Maiorova, Larissa
Martynov, Alexander G.
Moiseeva, Ekaterina
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Skvortsov, Ivan
Stuzhin, Pavel A.
Volostnykh, Marina
Zhabanov, Yuriy

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Britton, Jonathan
Khene, Samson
Mack, John
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Managa, Muthumuni
Mashazi, Philani
Mgidlana, Sithi
Mkhondwane, Siphumelele
Mpeta, Lekhetho
Ndebele, Nobuhle
Nemakal, Manjunatha
Nene, Lindokuhle
Nkhahle, Reitumetse
Nwahara, Nnamdi
Nyokong, Tebello
Openda, Yolande
Choi, Yongdoo
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Jang, Woo-Dong
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Kim, Dongho
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Nam, Wonwoo
Park, Hyunjun

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 Bottari, Giovanni
 Caballero, Esmeralda
 Cañizares-Espada, Elena
 Chatterjee, Tamal
 Coronado, Eugenio
 de Juan Garrudo, Alberto
 de la Cruz, Pilar
 de la Escosura, Andres
 de la Torre, Gema
 Domínguez-Terol, Ana Belén
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 Elías-Arnanz, Montserrat
 Fernández-Lázaro, Fernando
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 Garcés, José
 García Iglesias, Miguel
 García-Calvo, Jose
 Gomez-Gomez, Marta
 Gonzalez Rodriguez, David
 Gonzalez-Sanchez, Marina
 Gutiérrez, Ana Maria
 Guzman, Anthony
 Hernández, Adrián
 Jordà, Mireia
 Kumar, Sunit
 Labella, Jorge
 Langa, Fernando
 Lopez-Serrano, Elisa
 Martín León, Nazario
 Martín-Gomis, Luis
 Martínez Díaz, M. Victoria
 Martinez-García, Miguel
 Martinez-Muino, Alba
 Martins, Frederico
 Matito, Eduard
 Molina, Desiré
 Mugarza, Aitor
 Nonell, Santi
 Ortí, Enrique
 Ortiz, Javier
 Paramio, Irene
 Perez, Ruben
 Pérez-García, Maria Lluïsa
 Philippova, Yana
 Pontón, Iris
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 Rodriguez-Mendez, Maria Luz
 Rodriguez-Morgade, M. Salome
 Sánchez-García, David
 Sastre-Santos, Ángela
 Sobrino, Victor
 Torres, Tomas
 Urbani, Maxence
 Urgel, José Ignacio
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 Gallego, Lucía
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 Spingler, Bernhard
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 Woods, Joseph
 Zelder, Felix
 Zobi, Fabio

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 Ince, Mine
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 Pantos, G. Dan
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 Saywell, Alex
 Stawski, Wojciech
 Warren, Martin

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 Beroval, Nina
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 Dawson, John H.
 DuBois, Jennifer
 Fry, Christopher
 Goldberg, David
 Gorun, Sergiu M.
 Hadt, Ryan
 Hasan, Tayyaba
 Huang, Huang Chiao
 Kadish, Karl M.
 Kirk, Martin
 Lehnert, Nicolai
 Lindsey, Jonathan
 Mak, Piotr
 Osterloh, Ryan
 Pandey, Ravindra k.
 Poddutoori, Prashanth K.
 Rousseau, Denis

Ruppel, Joshua
 Ryan, Michael
 Scheidt, W. Robert
 Sessler, Jonathan
 Tomat, Elisa
 Vinogradov, Sergei
 Wang, Hong
 Weinert, Emily
 Wijeratne, Gayan
 Yeh, Syun-Ru
 Ziegler, Christopher J.
 Arcudi, Francesca
 Atoyebi, Adewole
 Bren, Kara
 Chaudhri, Nivedita
 D'Souza, Francis
 Damunupola, Dinusha
 Doyle, Robert
 Fasan, Rudi
 Field, Mackenzie
 Ghiladi, Reza
 Green, Michael
 Guerra, Walter
 Hackett, John
 Jayawickramarajah, Janarthanan
 Liles, Amber
 Ma, Shengqian
 Makris, Thomas
 Medina-Kauwe, Lali
 Moenne-Loccoz, Pierre
 Nemykin, Victor
 Noodleman, Lou
 Palomino, Hannah
 Pletneva, Ekaterina
 Rivera, Mario
 Rodgers, Kent
 Shultz, David
 Telser, Joshua
 Therien, Michael

Author Index

Author Index

A

Aav, Riina, 10, 11, 70
 Abbruzzetti, Stefania, 20
 Abraham, Jibin Alex, 66
 Abrahams, Garth, 30
 Abrol, Ravinder, 54
 Acharaya, J. N., 68
 Achazi, Katharina, 79
 Adinarayana, B., 25
 Agapaki, Eleni, 76
 Agcaabat, Rüyeyda, 62
 Aggad, Dina, 6
 Agranat, Alina, 61
 Agut, Montserrat, 20
 Ahmad, Shahzada, 44, 75, 76
 Ahsen, Vefa, 64
 Akhssas, Fatima, 22, 77
 Akiyama, Ryota, 58
 Al Shehimi, Shaymaa, 22
 Al-Qaoud, Khaled, 64
 Albani, Guglielmo, 21
 Albert, Therese, 23
 Albino, Andrea, 82
 Albus, Marie-Irene, 30
 Alfred, Mary Angelia, 69
 Ali, Md Ashif, 68
 Almeida, Adelaide, 15, 32, 47, 79
 Almeida-Marrero, Verónica, 26
 Alonso, Mercedes, 17, 24
 Alonso-Valenteen, Felix, 54
 Alsaiari, Shahad, 6
 Altindal, Ahmet, 52
 Álvarez-Hernández, José, 23
 Alves, Wendel A., 43
 Alwedyan, Alia, 64
 Amabilino, David B., 43
 Amuhaya, Edith, 78
 Anand, Venkataramanarao, 25
 Anastasiadis, Fotis, 74, 75
 Anaya-Plaza, Eduardo, 26
 Anderson, Harry, 27, 51, 68
 André, Laurie, 54, 65
 Anfar, Zakaria, 10
 Angaridis, Panagiotis, 74
 Anjum, Dalaver, 6
 Aparicio, Fátima, 38
 Aragón, Juan, 38, 39
 Arcudi, Francesca, 27
 Aritome, Isao, 20
 Arnaut, Luis, 14
 Arnoux, Philippe, 30
 Arsenault, Eric, 44
 Arvidson, Jacob, 37
 Aslan, Emre, 5

Astashkin, Andrei, 22
 Atilla, Devrim, 47, 52, 63
 Atkins, William, 16
 Atoyebi, Adewole O., 67
 Aukauloo, Ally, 22, 44, 74
 Auwärter, Willi, 51
 Awada, Houssein, 49
 Awaga, Kunio, 55
 Aydin, Derya, 14
 Aygun, Elif, 14

B

Baati, Rachid, 54
 Babu, Balaji, 37, 64
 Bajuk-Bogdanovic, Danica, 47
 Baljovic, Milos, 31
 Ballester, Pablo, 5
 Bansal, Deepak, 46, 74
 Barata, Joana, 49
 Barbon, Antonio, 44
 Barbosa, Catarina, 28
 Barreau, Nicolas, 27
 Barrejón, Myriam, 39
 Bartolomeu, Maria, 15, 32, 47, 79
 Bas, Cagla, 67
 Baserga, Federico, 7
 Basova, Tamara, 72
 Basumatary, Biju, 19
 Batov, Dmitry, 77
 Bayard, Brandon, 75
 Baydoun, Orsola, 22
 Bdiri, Bilel, 43
 Beckham, Gregg, 28
 Becucci, Maurizio, 81
 Bein, Thomas, 44
 Beirão, Sandra, 78
 Belousov, Mikhail, 55, 69
 Belviso, Sandra, 55
 Belykh, Dmitry, 33, 77
 Belykh, Elena, 33
 Ben Aziza, Haifa, 14, 71, 78
 Benchouaia, Rajaa, 24, 70
 Bender, Timothy, 36
 Benhaghnazar, Rebecca, 54
 Bennion, Matthew C., 15
 Beratan, David, 57
 Berber, Savas, 64
 Berezin, Dmitry, 33, 64, 77
 Berezin, Mikhail, 64
 Bergese, Paolo, 29
 Berna, Beatrice Berionni, 49
 Berndt, Richard, 56
 Berova, Nina, 10
 Bertagnoli, Stéphane, 65
 Berthelot, Mathieu, 22, 77
 Berthomieu, Dorothée, 6
 Besley, Elena, 51
 Bettache, Nadir, 6
 Bettini, Simona, 11, 21, 71, 75
 Bhardwaj, Varusha, 68
 Bhat, Ishfaq, 36
 Bhuvanesh, Nattamai, 50
 Bialek, Michal, 25
 Bianchini, Paolo, 20
 Bickici, Ipek, 78
 Bijigiri, Sathish Kumar, 36
 Birin, Kirill P., 50
 Biswas, Kalyan, 56
 Blank, David, 41
 Blay, Lydia, 78
 Böllersen, Tanja C., 79
 Boitrel, Bernard, 8, 24, 44, 70
 Bonifazi, Davide, 51
 Borelli, Mino, 27
 Borisov, Sergey, 21, 71
 Borner, Tito, 40
 Borovkov, Victor, 10, 11, 21, 70
 Borzecka, Wioleta, 32
 Boscher, Nicolas, 46, 74
 Bossi, Alberto, 20, 21
 Bottari, Giovanni, 51, 61, 73
 Bouchmella, Karim, 6
 Boufatit, Makhlouf, 6
 Bousfiha, Asmae, 22, 77
 Bousquet-Melou, Alain, 65
 Bouvet, Marcel, 21, 30
 Boyd, Eric, 80
 Bozinovic, Filip, 67
 Brandès, Stéphane, 54, 65
 Brégier, Frédérique, 15
 Bren, Kara, 23
 Brenig, Christopher, 45
 Bretonnière, Yann, 78
 Brieslingerova, Lenka, 64
 Britton, Jonathan, 29, 46
 Bröring, Martin, 49, 64, 65, 67, 79
 Bronstein, Louis-Gabriel, 38
 Brothers, Penelope, 9
 Brückner, Christian, 4, 29, 67
 Brun, Nicolas, 74
 Bu, Jiachuan, 32
 Bucher, Christophe, 22
 Bucher, Léo, 65
 Buffeteau, Thierry, 10
 Bulbul, Amir Sohel, 67, 71
 Burch, Morgan A., 15
 Burgess, Kristen, 37
 Burtsev, Ivan, 69
 Bussetti, Gianlorenzo, 20, 21

- C**
 Caballero, Rubén, 39
 Cabrera-González, Justo, 9
 Cacaccio, Joseph, 14
 Cailler, Lucie, 12
 Calbo, Joaquín, 38
 Calloni, Alberto, 21
 Cammas-Marion, Sandrine, 47, 78
 Cammidge, Andrew, 9
 Campidelli, Stéphane, 31
 Campione, Marcello, 20
 Canard, Gabriel, 42, 49
 Cañizares, Elena, 62
 Canola, Sofia, 56
 Cao, Rui, 5
 Cardenas Morcoso, Drialys, 46, 74
 Carracedo-Cosme, Jaime, 20
 Casademont, Irene, 24
 Cascales Guerrero, Carlos, 63
 Casellas, Nicolás M., 43
 Castillo, Maria, 76
 Castriciano, Maria Angela, 38
 Castro, Kelly A.D.F., 14
 Cattey, Hélène, 22, 77
 Cattoën, Xavier, 6
 Cavaleiro, José A. S., 49
 Cavalleri, Matteo, 5, 12
 Cazals, Guillaume, 72
 Celik, Gizem Gumusgoz, 52, 63
 Cerdá, Jesús, 39
 Cevallos, Alberto, 63
 Chaladaj, Wojciech, 33
 Chaleix, Vincent, 6, 15
 Chambrier, Isabelle, 9
 Champness, Neil R., 51
 Chandel, Dolly, 11
 Chandra, Brijesh, 36
 Charalambidis, Georgios, 27, 74, 75, 76
 Charisiadis, Asterios, 76
 Charnay, Clarence, 6
 Chatterjee, Tamal, 5
 Chaudhri, Nivedita, 29
 Chaudhry, Talhat, 77
 Chen, Juan, 32
 Chen, Qiu-Cheng, 54
 Chen, Ying, 7, 32
 Cheng, Miffy (Hok Yan), 32, 63
 Chevallier, Floris, 22
 Chiesa, Mario, 82
 Chilingaryan, Tatevik, 30, 73
 Chino, Marco, 53
 Chiyumba, Choonzo, 37
 Chmielewski, Michal, 80
 Chmielewski, Piotr, 25, 68
 Choi, Yongdoo, 26
 Choluj, Artur, 80
 Christov, Christo, 47, 80
 Chuang, Chuan-Hung, 25
 Chung, Duy, 3
 Churchill, David, 54
 Ciccacci, Franco, 21
 Ciric-Marjanovic, Gordana, 47
 Cissé, Nicolas, 24, 70
 Clark, John A., 65
 Clément, Sébastien, 6, 72, 74, 78
 Clubb, Robert, 23
 Coles, Simon J., 68
 Conradie, Jeanet, 9
 Cooke, Ana, 45
 Coronado, Eugenio, 50
 Cortés-Arriagada, Diego, 42, 49
 Costa, Letícia D., 14
 Coutsolelos, Athanassios, 27, 74, 75, 76
 Coxon, Christopher R., 43, 77
 Crassous, Jeanne, 57
 Cressey, Paul, 38
 Croissant, Jonas, 6
 Cubedo, Nicolas, 6
 Cuesta, Virginia, 52
 Curtis, Clayton, 22
 Custance, Oscar, 20
 Cuxart, M.G., 56
 Cvjetan, Nemanja, 47
- D**
 D'Alonzo, Daniele, 53
 D'Elia, Andrew, 32
 D'Souza, Francis, 37, 39, 75
 D'Urso, Alessandro, 10, 11
 Dabrowski, Janusz, 4
 Dali, Andrea, 81
 Damiano, Caterina, 5, 12
 Damunupola, Dinusha, 67
 Dana, Jayanta, 46
 Dappe, Yannick, 22
 Das, Anuvab, 50
 Das, Mainak, 25
 Das, Pradip K., 8
 Das, Suman, 28
 Dawson, Andrew, 39
 De Angelis, Filippo, 75
 de Bruin, Bas, 12
 de Campos Ferreira, Rodrigo Cezar, 56
 De Jonghe, Bart C., 40
 de Juan Garrudo, Alberto, 30, 43, 72
 de la Cruz, Pilar, 39, 52
 de la Escosura, Andrés, 26, 63
 de la Torre, Gema, 8, 50, 61, 72
 de Plano, Laura, 15
 De Vleeschouwer, Freija, 17, 24
 Deery, Evelyn, 45
 Delasoie, Joachim, 40
 Demircioglu, Perihan Kübra, 76
 Demuth, Jiri, 63, 69
 Dennis, David D., 15
 Derese, Solomon, 78
 Desbois, Nicolas, 54, 65
 Desmedt, Eline, 17, 24
 Devadas, Sharat, 66
 Devic, Thomas, 27
 Devillers, Charles H., 21, 22, 72, 74, 77
 Dey, Abhishek, 13, 53
 Dey, Chinmay, 81
 Dey, Somdatta Ghosh, 16, 81
 Di Meo, Florent, 38
 Di Natale, Corrado, 10, 21
 Di Valentin, Marilena, 44
 Di Zazzo, Lorenza, 49
 Dias, Cristina J., 14
 Dib, Soraya, 6
 Dimé, Abdou K. D., 22, 77
 Ding, Lili, 32
 Dingiswayo, Somila, 37
 Diring, Stéphane, 27
 Distel, Max, 68
 Dixon, Charlie F., 15
 Dogan, Sifa, 5, 76
 Dognini, Paolo, 43, 77
 Doležal, Jirí, 56
 Domanski, Sylwester, 46
 Domingo, Beatriu, 5
 Dominguez Gil, Sofia, 6
 Domínguez Terol, Ana Belén, 77
 Dominski, Adrian, 32
 Dong, Renhao, 27
 Donohoe, Claire, 14
 Doran, Katie, 32
 Dorcet, Vincent, 8
 Dordevic, Luka, 27
 Dorizon, Hélène, 71
 Doyle, Robert, 40, 80
 Drewello, Thomas, 68
 Dubinina, Tatiana, 55, 61, 63, 69, 72
 DuBois, Jennifer, 28, 80
 Dukh, Mykhaylo, 14
 Dumail, Xavier, 74
 Dumont, Elise, 22
 Dumoulin, Fabienne, 14, 30, 47, 64, 71, 78
 Duo, Lamberto, 21
 Duran-Sampedro, Gonzalo, 37
 Durand, Denis, 6, 14
 Durand, Jean-Olivier, 6
 Durrani, Farukh, 14
 Dworakowski, Krzysztof, 80
 D'Elia, Andrew, 32
 D'Souza, Francis, 39
- E**
 Echaubard, Julie, 22, 77
 Ecija, David, 56
 Edmondson, Matthew, 51
 Edwards, Emily, 23
 Efimov, Nikolay N., 50

Egorov, Anton, 69
 Ek, Yildiz, 30
 El Bitar Nehme, Melissa, 76
 El Cheikh, Khaled, 6
 Elbaz, Lior, 5
 Elemans, Johannes A.A.W., 8
 Elías-Arnanz, Montserrat, 45
 Elkihel, Abdechakour, 15
 Ellis, Emerald, 28
 Ellis-Guardiola, Kat, 23
 Emami, Atefeh, 47, 71, 78
 Epping, Roel, 12
 Ernst, Karl-Heinz, 31
 Eroshin, Alexey, 63, 82
 Escalera, Luis, 50
 Estour, François, 54
 Eulberg, Simon, 64

F

Fakharuddin, Azhar, 75
 Fan, Qitang, 30, 73
 Farac, Nina Francesca, 36
 Faraonov, Maxim, 50
 Fasan, Rudi, 13
 Fasel, Roman, 51, 73
 Fateeva, Alexandra, 27
 Faust, Rüdiger, 36, 61, 62
 Faustino, M. Amparo F., 14, 15, 32, 47, 79
 Fazlyeva, Alina, 29
 Feng, Boya, 53
 Feng, Ru, 41
 Feng, Xinliang, 27
 Feringa, Ben L., 8
 Fernandes, Rosa, 14, 78
 Fernández Lázaro, Fernando, 39, 63
 Fernandez Vera, Oscar, 61
 Fernández-Sánchez, Cristina, 21, 71
 Ferrer, Lydia, 3, 76
 Fidan, Ismail, 64
 Field, Mackenzie, 79
 Figgins, Matthew T., 50
 Fihey, Arnaud, 70
 Finogenov, Daniil, 69
 Flanagan, Keith J., 79
 Fleming, Graham, 44
 Fleurat-Lessard, Paul, 22, 77
 Fliegl, Heike, 17
 Floreano, Luca, 21
 Follana Berná, Jorge, 3, 63, 75
 Fonseca, Alba, 43
 Fontes, Marta, 45
 Fontes, Milton, 32
 Forbes, Malcolm,
 Forner-Bonmati, Javier, 76
 Foroutan-Nejad, Cina, 24
 Fournier, Sophie, 22
 Fraaije, Marco, 28
 Fragalà, Maria Elena, 11

Frampton, Eleanor, 51
 Franco, Domenico, 15
 Franco, Federico, 5
 Frath, Denis, 22
 Freire, Carmen S. R., 47
 Friedrich, Thorsten, 53, 80
 Frochot, Celine, 30, 73
 Fronczek, Franck, 49
 Fry, Harry, 38
 Fuertes-Espinosa, Carles, 38
 Fujii, Hiroshi, 58
 Fujiyama, Keisuke, 58
 Fukui, Kosuke, 58
 Fukui, Norihito, 4, 70
 Furrer, Julien, 79
 Furtmüller, Paul Georg, 28
 Furuta, Hiroyuki, 19, 41, 61, 66
 Furuyama, Taniyuki, 34

G

Gaeta, Massimiliano, 11
 Gai, Lizhi, 41
 Gaita-Ariño, Alejandro, 50
 Gajewska, Agnieszka, 66
 Gallardo, Franck, 65
 Gallego Aibar, Lucía, 43, 73, 75
 Gallego, José María, 56
 Gallo, Emma, 5, 12
 Galstyan, Anzhela, 15
 Gamelas, Sara, 14, 79
 Ganczar, Emilia, 66
 Gao, Hu, 42
 Garcés Garcés, Jose, 63
 Garcia Baldovi, Hermengildo, 27
 García Calvo, José, 29
 García Ros, Alberto, 63
 Garcia-Borràs, Marc, 38
 García-Cabezón, Cristina, 21, 71
 García-Guijarro, Fernando, 30
 García-Iglesias, Miguel, 30, 43, 72
 Gary-Bobo, Magali, 6, 14, 78
 Gazetas, Lampros-Pascal, 37, 67, 68
 Geeraerts, Zachary, 28
 Gerasimova, Tatjana, 80
 Gerbaud, Guillaume, 53
 Gerbelli, Barbara B., 43
 Gerbier, Philippe, 78
 Gering, Hannah, 28
 Ghazal, Basma,
 Ghiladi, Reza, 15
 Ghosh, Abhik, 9, 18
 Giancane, Gabriele, 21, 71, 75
 Giedyk, Maciej, 33, 80
 Gikonyo, Ben, 27
 Gilissen, Pieter J., 8
 Girichev, Georgiy, 52
 Gitter, Burkhard, 79
 Giuntini, Francesca, 43, 77

Gjuroski, Ilche, 79
 Goertz, David, 6
 Goetz, Andreas, 7
 Goh, Teffanie, 7
 Goings, Joshua, 44
 Goldberg, David, 53
 Goldoni, Andrea, 21
 Gomes, Ana T. P. C., 15, 47
 Gomes, Marta, 15
 Gomes-da-Silva, Lúcia, 14
 Gómez Gómez, Marta, 62
 Gonca, Serpil, 63
 González Sánchez, Marina, 72
 González-Rodríguez, David, 30, 38, 43, 72
 Gorbunova, Elena, 63
 Gorbunova, Yulia Yu., 12, 29, 50, 73
 Gorun, Sergiu, 8
 Gotico, Philipp, 44
 Gottfried, J. Michael, 30, 51, 73
 Gradova, Margaret, 55
 Gramage-Doria, Rafael, 74
 Granier, Michel, 74
 Gray, Harry B., 54, 65
 Green, Michael T., 58, 79
 Gretton, Jacob, 9
 Grimaldi, Stéphane, 53
 Gros, Claude P., 54, 65
 Gross, Zeev, 12, 54, 65, 74
 Grover, Nitika, 21, 71
 Gruber, Manuel, 56
 Grunewald, Gero, 36, 61
 Gryko, Daniel T., 49, 65
 Gryko, Dorota, 33, 40, 80
 Guberman-Pfeffer, Matthew J., 29
 Günther, Sebastian, 65
 Gürek, Ayse Gül, 78
 Guerra, Walter, 44
 Guerrero, Raúl, 24
 Guillard, Roger, 73
 Guillemé, Julia, 38
 Guillou, Nathalie, 27
 Guisán-Ceinos, Santiago, 26
 Guldi, Dirk M., 2, 37, 68, 73
 Guldi, Rebecca, 37, 67
 Gurek, Ayse Gul, 52, 63, 78
 Gutierrez Vilchez, Ana María, 63
 Gutzeit, Florian, 56
 Gúzman, Anthony, 75

H

Haag, Rainer, 79
 Habensuss, Iva, 22
 Habermeyer, Benoit, 30, 73
 Hackett, John, 16
 Hadt, Ryan, 57
 Hainer, Andrew, 46
 Halaskova, Marie, 63
 Haldar, Ritesh, 31

Halime, Zakaria, 44
 Hally, Cormac, 20
 Hammes-Schiffer, Sharon, 44
 Han Du, Wen-Ge, 7
 Hannonen, Jenna, 77
 Hao, Jiping, 77
 Harland, Jill, 23
 Harmandar, Kevser, 47
 Harputlu, Ersan, 76
 Hasan, Tayyaba, 6
 Hassan, Sidra, 80
 Hatay Patir, Imren, 5
 Hayashi, Takashi, 8, 20, 23, 40
 Hayes, Matthew R., 40
 Head-Gordon, Martin, 44
 Heberle, Joachim, 7
 Hébié, Seydou, 22
 Heiderscheid, Max, 46
 Heitz, Valérie, 38
 Hellwig, Petra, 53, 80
 Herges, Rainer, 56
 Hernández García, Adrián, 75
 Hernández-López, Leyre, 8
 Herrero, Adrián, 3
 Herritsch, Jan, 30, 73
 Hery, Guillaume, 6
 Heuplick, Lukas J., 30, 73
 Hichou, Hichem, 27
 Hicks, Madeline H., 50
 Higuchi, Tsunehiko, 58
 Hildebrand, Mariana, 17
 Hill, Jonathan, 42
 Hino, Tomoya, 58
 Hiremath, Ramesh, 25
 Hirsch, Andreas, 68
 Hisaeda, Yoshio, 20, 80
 Hisayasu, Takumi, 45
 Ho, Tiffany, 32
 Hofbauer, Stefan, 81
 Hohlfeld, Benjamin F., 79
 Holst, Devon, 36
 Horcjada, Patricia, 75
 Horetski, Matvey, 70
 Horii, Yoji, 29
 Horton, Peter N., 68
 Hsu, Kaichuan, 25
 Huang, Huang Chiao, 32
 Huang, Peng, 75
 Hung, Chen-Hsiung, 25
 Hurej, Karolina, 46
 Hutter, Mark, 73
 Huynh, Elizabeth, 6

I

Iannace, Valentina, 38
 Ide, Yuki, 61
 Illescas, Beatriz, 9
 Imahori, Hiroshi, 52
 Imran, Syed Muhammad Saad, 58
 Inaba, Yuya, 61
 Ince, Mine, 5, 76
 Inokuma, Yasuhide, 41, 61
 Ioannou, Androulla, 58
 Isci, Umit, 12, 14, 30, 64, 71, 74, 78
 Ishida, Masatoshi, 19, 34, 61, 66
 Ishigami, Izumi, 7
 Ishimori, Koichiro, 7, 79, 81
 Islyakin, Mikhail K., 3, 63, 64
 Itoh, Shinobu, 58
 Ivancich, Anabella, 53
 Ivanov, Evgenii N., 3
 Ivanova, Maria, 61
 Ivanova, Svetlana S., 69
 Iwanaga, Osamu, 19, 66

J

Jagadeesh, Madan S., 21
 Jang, Woo-Dong, 42, 72, 73
 Jang, Youngwoo, 37, 39
 Jayaprakash, Ajay, 41
 Jayawickramarajah, Janarthanan, 3
 Jelínek, Pavel, 56
 Jeyaraman, Sankar, 54
 Jiang, Chenyu, 15
 Jiang, Xu-Liang, 67
 Jin, Guoqin, 24
 Joaquinito, Ana S., 14
 Jobic, Stéphane, 27
 Jones, Ben, 46
 Jones, Robert G., 51
 Jordà-Redondo, Mireia, 20, 78
 Joseph, Otto, 29
 Journet, Catherine, 27
 Juarranz de la Fuente, Ángeles, 64
 Judd, Chris J., 51
 Julian, Joan Francesc, 78
 Julliard, Paul-Gabriel, 42, 49
 Jux, Norbert, 37, 67, 68, 73

K

Kachel, Stefan R., 73
 Kadish, Karl M., 22, 54, 73
 Kaegi, Jan, 53
 Kage, Yuto, 41
 Kagi, Jan, 80
 Kananovich, Dzmitry, 70
 Kankanamalage, Dilanka Walpita, 3
 Kantor, Michal, 63
 Kappler-Gratias, Sandrine, 65
 Karayel, Aybike, 78
 Karimov, Dmitry, 33, 64

Karr, Paul A., 39, 75
 Katoh, Keiichi, 29, 56
 Kaushik, Rahul, 69
 Kazaryan, Kristina, 82
 Kazim, S., 75, 76
 Ketkov, Sergey, 3
 Khan, Haziq Naseer, 71
 Khan, Ramsha, 46
 Khasanov, Salavat, 50
 Khashab, Niveen, 6
 Khene, Samson, 29
 Kielesinski, Lukasz, 49
 Kim, Dongho, 19
 Kim, Donghyeon, 54
 Kim, Hwan Kyu, 52
 Kim, Younghun, 42, 72
 Kim, Yousoo, 56
 Kingsbury, Christopher J., 79
 Kinoshita, Yusuke, 81
 Kinzelmann, Marina, 68
 Kirakosyan, Gayane A., 50, 73
 Kirk, Martin, 57
 Kishi, Masashi, 81
 Kishida, Natsuki, 70
 Kissner, Reinhard, 47
 Kitagishi, Hiroaki, 8
 Knör, Günther, 65
 Kobayashi, Nagao, 17
 Kociscakova, Lucia, 26, 63
 Kodis, Gerdenis, 44
 Köbke, Alexander, 56
 Koebeke, Karl, 53
 Körner, Dominik, 67, 79
 Koide, Taro, 20
 Koifman, Oskar I., 3, 31, 72
 Kojima, Takahiko, 4
 Kolarova, Michaela, 69
 Kollár, Jan, 26, 63
 Kolomeychuk, Filipp, 29
 Komeda, Tadahiro, 56
 Konarev, Dmitri V., 3, 50
 Koniarz, Sebastian, 25, 68
 Konrad, Nele, 10, 70
 Kormanik, Jan Michal, 24
 Korri-Yousoufi, Hafsa, 71
 Koshino, Hiroyuki, 17
 Kosko, Ryan, 23
 Kosov, Anton, 69, 72
 Kostiainen, Mauri A., 26
 Kostyukov, Alexey, 69
 Koszarna, Beata, 49, 65
 Kovkova, Ulyana, 62
 Kowalczyk, Marek, 32
 Kozlikova, Magdalena, 63, 64
 Kräutler, Bernhard, 40
 Krest'yaninov, Mikhail, 64
 Krishna, Swathi, 37, 68
 Kroitor, Andrei, 12

Kronik, Leeor, 17
 Krumsieck, Jens, 49, 65, 67
 Krzystek, J., 50
 Kubo, Minoru, 16
 Kucera, Radim, 63
 Kukushkina, Natal'ya, 33
 Kulak, Nora, 79
 Kumar, Abhishek, 21
 Kumar, Sachin, 12, 74
 Kumar, Sandeep, 67
 Kumar, Sunit, 4, 8, 61
 Kumari, Soni, 68
 Kuppan, Balamurugan, 10
 Kurochkin, Ivan, 62
 Kustov, Andrey, 33, 77
 Kusumoto, Tomoichirou, 53
 Kuzmin, Ilya, 82
 Kuzmin, Sergei, 72
 Kuzmin, Vladimir, 69

L

Labella Santodomingo, Jorge, 8, 36, 37, 61, 62
 Labuta, Jan, 10
 Lacroix, Marlène, 65
 Ladomenou, Kalliopi, 74, 75
 Lafzi, Ferruh, 52
 Lahoz, Maria, 36
 Lakrafi, Ahmed, 6
 Lamare, Raphaël, 31
 Landrou, Georgios, 74, 76
 Langa, Fernando, 39, 52
 Langner, Pit, 7
 Lanterna, Anabel, 46
 Latos-Grazynski, Lechoslaw, 66
 Laurencin, Danielle, 6
 Lauwaet, Koen, 56
 Lavarda, Giulia, 8
 Lazovskiy, Dmitriy, 69
 Le Gac, Stéphane, 8, 24, 70
 Lebrun, Aurélien, 72
 Ledwaba, Mahlatse, 37
 Lee, Chang Hee, 42
 Lee, Jeong Heon, 42, 72
 Lee, Woohyun, 54
 Lehnert, Nicolai, 23, 47, 80
 Leibl, Winfried, 22, 44, 74
 Leone, Linda, 23, 53
 Lessard, Benoit, 52, 71
 Lewis-Ballester, Ariel, 16
 Leznoff, Daniel, 9
 Li, Sha, 68
 Li, Xiaofang, 68
 Liao, Rongzhen, 12
 Likhonina, Anastasiya, 64
 Liles, Amber, 80
 Limón, David, 43
 Lindsey, Jonathan, 3

Listkowski, Arkadiusz, 29, 66
 Liu, Siyu, 70
 Lobo-Checa, Jorge, 8
 Loboda, Polina, 73
 Lombardi, Angela, 23, 53
 Lomova, Tat'yana, 63
 López-Serrano, Elisa, 8, 61
 Lorente, Nicolas, 51
 Lou, Jenny W. H., 32
 Louison, Matthieu, 65
 Loukakos, Panagiotis A., 76
 Lourenço, Leandro, 79
 Lourenço, Leandro M. O., 14
 Lu, Hua, 41
 Lucas, Dominique, 22
 Lucas, Romain, 15
 Luciano, Michael P., 67
 Luhana, Charles, 30
 Luis, Fernando, 50
 Lukat-Rodgers, Gudrun, 28
 Lungerich, Dominik, 67
 Ly, Hoang Khoa, 27

M

Ma, Shengqian, 42
 Machacek, Miloslav, 26, 63, 64
 Machovina, Melodie, 28
 Mack, John, 37, 64
 Maeda, Hiromitsu, 41
 Mafukidze, Donovan, 46
 Magadla, Aviwe, 64
 Magaela, Bridged Ngwanabjala, 32
 Maglio, Ornella, 53
 Magna, Gabriele, 10, 21
 Magwaza, Temlandvo, 37
 Mahammed, Atif, 12, 54
 Maiorova, Larissa, 31, 72
 Maiuri, Margherita, 20
 Mak, Piotr, 23
 Makarchuk, Iryna, 53, 80
 Makarov, Sergey, 3
 Makhseed, Saad, 55
 Makky, Ali, 6, 38
 Makola, Lekgowa Collen, 32
 Makris, Thomas, 28
 Malarz, Katarzyna, 32
 Mallia, Ajith R., 43
 Managa, Muthumuni, 32
 Manca, Gabriele, 5
 Mancini, Laura, 64
 Mangalampalli, Ravikanth, 20, 68
 Mankou-Makaya, Amelle, 22, 77
 Manley, Olivia, 28
 Mao, Qiyue, 8
 Maouati, Hamida, 78
 Mapukata, Sivuyisiwe, 46
 Marc Robert, Marc, 27
 Markus, Robert, 43
 Martin, Max, 67
 Martin, Nazario, 9
 Martin-Gomis, Luis, 31, 39, 75
 Martín-Pedrosa, Fernando, 21
 Martínez Diaz, María Victoria, 36, 37
 Martínez, Eugenia, 5
 Martínez, Miguel, 73
 Martínez-Muñoz, Alba, 72
 Martins, Beatriz, 78
 Martins, Frederico, 82
 Martins, Ligia, 28
 Martynov, Alexander G., 12, 29, 50
 Mashazi, Philani, 30
 Mashnoy, Ibtesam, 9
 Matano, Yoshihiro, 19
 Mateo, Luis, 51
 Mateo Navarro, Irene, 63
 Matito, Eduard, 24
 Matshitse, Refilwe, 9
 Matsuo, Kyohei, 52
 Mattern, Cornelia, 21
 Mauriello Jimenez, Chiara, 6
 Maynadier, Marie, 6
 Mayoral, María José, 38
 Mazzaglia, Antonino, 15
 Mbakara, Idaresit, 66
 Mbatia, Betty, 78
 McGeehan, John, 28
 McMillan, Brian, 28
 McRee, Duncan, 7
 Medina-Kauwe, Lali, 54
 Melin, Frederic, 53, 80
 Melo, Andreia, 78
 Ménand, Mickaël, 24, 70
 Merabti, Amina, 78
 Merino, Pablo, 56
 Mesquita, Mariana Q., 14
 Mestizo, Daniela, 45
 Meunier-Prest, Rita, 21, 30
 Meyer, Bernd, 68
 Mgidlana, Sithi, 9
 Miao, Tianxin, 54
 Michel, Hartmut, 53
 Michel, Jean-Philippe, 6
 Michlits, Hanna, 81
 Miguel, Eugenia, 50
 Mikhael, Simoun, 54
 Miletín, Miroslav, 26, 63, 69
 Miranda, Rodolfo, 56
 Mishra, Vishnu, 25
 Misra, Rajneesh, 39
 Missert, Joseph R., 14
 Mitraki, Anna, 27, 76
 Miyajima, Daigo, 36
 Miyake, Yoshihiro, 64
 Miyazaki, Asami, 58
 Mizutani, Masaharu, 58
 Mkhondwane, Siphumelele Thandokwazi, 9

Mo, Yulin, 32
 Möller, William-Dale, 67
 Moenne-Loccoz, Pierre, 23
 Moiseeva, Ekaterina, 61, 72
 Molina Alcaide, Desire, 3, 76
 Molupe, Nthabeleng, 37
 Mondal, Pritam, 16
 Monge, Emma, 65
 Mongin, Olivier, 39
 Monot, Camille, 54
 Monteiro, Carlos J. P., 14, 32, 47
 Montero Lanzuela, Eva, 27
 Montforts, Franz-Peter, 45
 Monti, Donato, 10
 Moore, Ana, 44
 Moore, Gary, 44
 Moore, Thomas, 44
 Moreno, C., 56
 Moreno Simoni, Marta, 8
 Morere, Alain, 6
 Morimoto, Yuma, 58
 Morita, Yoshitsugu, 20
 Morshnev, Philipp, 33, 77
 Moser, Lea, 79
 Moss, Austen, 37
 Moura, Nuno M. M., 14
 Moyo, Iphithuli, 30
 Mpetla, Lekhetso, 46
 Mrozek-Wilczkiewicz, Anna, 32
 Münster, Florian, 73
 Mugarza, Aitor, 56
 Muge, Edward, 78
 Mukosera, George T., 15
 Mulaku, Anita, 69
 Murage, Margaret, 78
 Muramatsu, Kohta, 42
 Muramoto, Kazumasa, 7
 Muranaka, Atsuya, 17
 Muranishi, Kazuyoshi, 79
 Murugavel, Muthuchamy, 61
 Mutombo, Pingo, 56
 Mwanza, Daniel, 30

N

Naaman, Ron, 57
 Nachtigallová, Dana, 56
 Nagano, Shingo, 58
 Naitana, Mario Luigi, 49
 Nakai, Akito, 70
 Nakamura, Jun, 42
 Nam, Wonwoo, 5
 Nardis, Sara, 10, 49
 Natri, Flavia, 53
 Nath, Arnab Kumar, 81
 Natrajan, Louise, 71
 Navalón Oltra, Sergio, 27
 Nazeeruddin, Mohammad Khaja, 75
 Ndebele, Nobuhle, 22

Nelp, Micah T., 58
 Nemakal, Manjunatha, 31
 Nemykin, Viktor N., 8, 41
 Nene, Lindokuhle, 47
 Neuhaus, Leonard, 30
 Neves, M. Graça P. M. S., 15, 32, 47, 49
 Nevenon, Dustin,
 Ng, Dennis K. P., 43
 Ngoy, Bokolombe Pitchou, 30
 Nguyen, Christophe, 6, 78
 Nguyen, Kathy-Uyen, 3
 Nguyen, Khiem Chau, 3
 Nielsen, Mogens Brøndsted, 36
 Nieto, Gema, 9
 Nieves, Ingrid, 20
 Nikodinovic-Runic, Jasmina, 40
 Nikolaev, Anton, 53
 Nikolaou, Vasilis, 27, 76
 Nikoloudakis, Emmanouil, 27, 74, 76
 Nkhahle, Reitumetse, 22
 Nlate, Sylvain, 10
 Nocentini, Alessio, 78
 Nolte, Roeland, 8
 Nonell, Santi, 20, 78
 Noodleman, Louis, 7
 Nos, Jaume, 78
 Nottingham, Ana N., 15
 Nováková, Veronika, 26, 34, 63, 64, 69
 Nunn, Elliott, 71
 Nwahara, Nnamdi, 30
 Nyokong, Tebello, 9, 22, 26, 30, 32, 37, 46, 47, 64
 Nys, Kevin, 28

O

Obinger, Christian, 28
 Ocakoglu, Kasim, 5, 76
 Ociepa, Michal, 33
 Oda, Reiko, 10
 Odabas, Zafer, 62
 Odella, Emmanuel, 44
 Odobel, Fabrice, 27, 76
 Özdemir, Burak, 47, 78
 Ogasawara, Shin, 81
 Oh, Juwon, 19
 Ohad, Guy, 17
 Ohta, Takehiro, 7
 Okazaki, Yutaka, 10
 Okujima, Tetsuo, 4, 42
 Oleszak, Christoph, 37, 68
 Oliviero, Erwan, 6
 Omura, Issei, 81
 Onal, Emel, 47, 64, 78
 Ondatje, Briana, 54
 Ono, Toshikazu, 20
 Oohora, Koji, 8, 20, 23, 40
 Openda, Yolande Ikala, 30
 Orłowski, Rafał, 65

Orbelli Biroli, Alessio, 21
 Orfanos, Emmanouil, 74
 Oropeza, Freddy, 75
 Ortí, Enrique, 38, 39
 Ortiz, Javier, 3, 75
 Osadchuk, Irina, 70
 Osifeko, Olawale, 46
 Osterloh, W. Ryan, 22, 54, 73
 Osuka, Atsuhiko, 19, 70
 Otlyotov, Arseniy, 82
 Ottolini, Michela, 21, 71, 75
 Ouk, Tan-Sothéa, 15
 Ouyang, Xingmei, 17
 Overchuk, Marta, 32
 Oyagi, Kagari, 81
 Oyala, Paul, 79
 Ozarowski, Andrew, 50
 Ozawa, Narito, 61
 Ozdemir, Sadin, 63

P

Paco, Lorela, 16
 Pacquelet, Sandrine, 54
 Padmanabhan, Subramanian, 45
 Pagano, Rosanna, 21, 75
 Pal, Chandrani, 11
 Palmans, Anja, 43
 Palomares, Emilio, 5
 Palomino, Hannah, 47, 80
 Panagiotakis, Stylianos, 75
 Panchal, Santosh, 25
 Panda, Pradeepta, 36
 Pandey, Ravindra K., 14
 Pantos, G. Dan, 9
 Paolesse, Roberto, 10, 21, 29, 49, 65
 Paoletti, Anna Maria, 64
 Papadakis, Michael, 75
 Papageorgiou, Anthoula C., 51
 Paramio, Irene, 72
 Parejo, Concepcion, 64
 Parella, Teodor, 38
 Parfenyuk, Vladimir, 72
 Park, Hyunjun, 42, 73
 Pascal, Simon, 42, 49
 Patino-Alonso, Jennifer, 9
 Paul, Frédéric, 39
 Paul-Roth, Christine, 39
 Pavic, Aleksandar, 40
 Pecoraro, Vincent, 53
 Pedro, Sónia N., 47
 Pegu, Meenakshi, 76
 Pélachs, Tània, 38
 Peljo, Pekka, 65, 77
 Pellow, Carly, 6
 Pelmus, Marius, 8
 Penconi, Marta, 20
 Peng, Su-Hong, 25
 Pereira, Mariette, 14

Pérez, Rubén, 20
 Pérez, Yolanda, 75
 Pérez-Castaño, Ricardo, 45
 Pérez-García, Lluïsa, 43
 Pérez-González, Clara, 21, 71
 Pérez-Ojeda, Eugenia, 68
 Perraki, Maria, 74
 Petrovic, Ana G., 10
 Pfanzagl, Vera, 28
 Pfister, Pauline, 73
 Pham, Khoa, 16
 Philippova, Yana, 64
 Piet, Morgane, 27
 Pigiaki, Maria, 76
 Pijeat, Joffrey, 31
 Pinakoulaki, Eftychia, 58
 Piqueras, Ana, 78
 Pisarek, Sabina, 80
 Pitts, Winston, 53
 Planchat, Aurélien, 76
 Platzter, Benedikt, 73
 Pletneva, Ekaterina, 53
 Poddutoori, Prashanth, 39, 44, 75
 Pogonin, Alexander, 62
 Polanco, María Carmen, 45
 Polovkova, Marina A., 50
 Polychronaki, Maria N., 76
 Pomarico, Giuseppe, 29
 Pomper, Martin G., 32
 Pontón, Iris, 6, 78
 Potrsasaj, Aleksandra, 33
 Pou, Pablo, 20
 Pouget, Emilie, 10
 Powers, David C., 50
 Poyac, Ludivine, 72, 74
 Prakash, G. V., 68
 Pranowo, Audrey, 46
 Prinsloo, Earl, 30
 Privitera, Alberto, 82
 Przewoznik, Monika, 66
 Pugliese, Eva, 44
 Pujals, Míriam, 38
 Pura, Jose Luis, 71
 Purrello, Roberto, 11

Q

Quaranta, Annamaria, 44, 74
 Quentin-Froignant, Charlotte, 65
 Querebillo, Christine Joy, 27
 Quinn, Mark, 71

R

Radakovic, Natasa, 40
 Radeghieri, Annalisa, 29
 Rademaker, Quinn, 58
 Raehm, Laurence, 6
 Rajapakse, Shanuk, 16
 Rajora, Maneesha A., 32, 63
 Ramos, Eloy, 24
 Ramos, Paula, 47
 Ramuglia, Anthony, 27
 Randazzo, Rosalba, 11
 Rando, Carola, 63
 Ranieri, Davide, 82
 Rao Allu, Srinivasa, 37
 Rasadean, Dora, 9
 Raslin, Arik, 12
 Rath, Harapriya, 25
 Rath, Sankar P., 10, 11
 Ravikanth, Mangalampalli, 68
 Ravotto, Luca, 37
 Ray, Kallol, 13
 Regeard, Christophe, 38
 Reid, Kaleb A., 50
 Remita, Hynd, 22
 Renzi, Emilia, 53
 Reyes Cruz, Edgar, 44
 Ribas, Xavi, 38
 Richeter, Sebastien, 6
 Rickhaus, Michel, 43, 73, 75, 76
 Ritterhoff, Christian, 68
 Rivera, Mario, 23
 Robert, François, 70
 Robert, Marc, 13, 27
 Roberts, David, 71
 Robles, R., 56
 Robles, Roberto, 51
 Rodgers, Kenton, 28
 Rodrigues, Fábio, 14
 Rodríguez Morgade, M. Salomé, 62, 64, 77
 Rodríguez-Méndez, María Luz, 21, 71
 Roger, Julien, 22, 77
 Roger, Maxime, 78
 Rohal, Renu K., 68
 Roldán-Gutiérrez, Manuel, 6
 Romano, Miriam, 29
 Romeo, Andrea, 38
 Romero-Muñiz, Carlos, 20
 Romieu, Anthony, 22
 Rose, Clémence, 72
 Rosilio, Véronique, 6, 38, 78
 Ross, Kehinde, 77
 Rossel, Mireille, 6
 Rousseau, Denis, 7
 Roy, Madhuparna, 81
 Ruffieux, Pascal, 51
 Ruffin, Hervé, 24, 70
 Ruiz-Ganivet, Carolina P., 50
 Ruppel, Joshua, 15
 Ruppel, Michael, 67
 Ruppenthal, Lukas, 30
 Rusche, Jendrik, 67
 Rutherford, Alfred William, 45
 Rutjes, Floris P.J.T., 8
 Ryan, Caitlin, 28
 Ryan, Michael, 28
 Rychikhina, Ekaterina, 69, 82
 Ryzhov, Igor, 82

S

Sabapathi, Gokulnath, 41
 Sabat, Dimitri, 54
 Sacramento, Jireh, 53
 Saeki, Tatsuya, 20
 Safarian, Schara, 53
 Safonova, Evgeniya, 29
 Sagristá, M. Lluïsa, 20, 78
 Saha, Bapan, 11
 Sahin, Aysenur, 52
 Sahin, Belgin, 63
 Sahin, Zeynel, 14, 30, 74
 Sahoo, Sameeta, 36
 Sakaguchi, Kana, 81
 Sakamoto, Junshi, 53
 Šakarašvili, Marko, 10, 70
 Sakurai, Takahiro, 64
 Salah, Lubna,
 Salamatian, Alison, 23
 Salnikov, Denis, 31, 72
 Salvadori, Enrico, 82
 Salvo-Comino, Coral, 21, 71
 Samanta, Subhra, 23
 Samperi, Mario, 43
 Sances, Sam, 54
 Sanchez, Monica, 80
 Sanchez, Romny, 54
 Sánchez-García, David, 6, 78
 Sánchez-Grande, Ana, 56
 Sanhueza, Luis, 42, 49
 Sankar, Muniappan, 22, 37, 65, 67, 68, 71
 Santanni, Fabio, 82
 Santos, Carla, 14
 Sarabando, Sofia, 14
 Saracoglu, Nurullah, 52
 Saritas, Emine Ulku, 14
 Sarkar, Ankita, 53
 Sarkar, Biprajit, 13
 Sarkar, Debashrita, 27
 Sastre-Santos, Ángela, 3, 31, 39, 63, 64, 75, 76
 Sato, Yusuke, 58
 Saywell, Alex, 51
 Scagnetti, Giulia, 77
 Scaiano, Juan, 46
 Scalabre, Antoine, 10
 Schaberle, Fábio, 14
 Schio, Luca, 21
 Schlesinger, Ramona,
 Schnurpfeil, Günter, 3
 Schöffberger, Wolfgang, 49
 Schöll, Kilian, 37, 73
 Schoepp-Cothenet, Barbara, 53
 Scolaro, Luigi Monsù, 38
 Scholz, Barbara, 68
 Schrage, Briana R., 8
 Schulze, Nina, 65, 67

- Schwalbe, Matthias, 27
 Schwendt, Georg, 21, 71
 Scoditti, Stefano, 74
 Sebastiani, Federico, 81
 Secor, Maxim, 44
 Seetharaman, Sairaman, 39, 75
 Sekaran, Bijesh, 39
 Seliverstov, Michael, 69
 Senge, Mathias O., 14, 21, 71, 79
 Serrano, Erik, 54
 Sert, Buse, 76
 Sessler, Jonathan, 24
 Sessoli, Roberta, 82
 Setaro, Francesca, 26
 Shamova, Liliya, 41
 Shao, Junming, 13
 Sharma, Ganesh D., 52
 Sharma, Vinay, 65
 Shaikat, Ahmed, 26
 She, James, 44
 Shen, Zhen, 42
 Shestakov, Alexander, 50
 Shichijo, Keita, 80
 Shigeta, Yasuteru, 58
 Shimada, Atsuhiko, 7
 Shimada, Takahide, 61
 Shimakoshi, Hisashi, 20, 40, 80
 Shimizu, Soji, 41, 62, 77
 Shimizu, Tomoko, 20
 Shinokubo, Hiroshi, 19, 70
 Shinzawa-Itoh, Kyoko, 7
 Shiota, Yoshihito, 20
 Shiro, Yoshitsugu, 16
 Shivakumar, Kilingar I., 61
 Shoji, Mitsuo, 58
 Shoyama, Kazutaka, 8
 Shuaib, Ali,
 Shukhto, Olga, 77
 Shultz, David, 57
 Sidorova, Barbora, 63
 Sihtmäe, Mariliis, 70
 Silveira, Celia, 28
 Sindelar, Vladimir, 63
 Sindhe, Jivan, 39
 Sinelshchikova, Anna, 50, 73
 Singha Hazari, Arijit, 13
 Sircoglou, Marie, 22, 44
 Siri, Olivier, 42, 49
 Skvortsov, Ivan, 29, 62, 69
 Sleet, Charlotte D., 43
 Smaga, Oskar, 68
 Smirnova, Natal'ya, 77
 Smolen, Sabina, 80
 Smulevich, Giulietta, 35, 81
 Snyder, Nicole L., 15
 Sobrino-Bastán, Victor, 31, 75
 Sokolov, Maxim, 73
 Sol, Vincent, 6, 15
 Soler, Diego, 56
 Sollogoub, Matthieu, 70
 Soman, Rahul, 36
 Song, Luyang, 49
 Sonzini, Paolo, 5
 Sorace, Lorenzo, 82
 Soriano, Luís, 24
 Sorokin, Alexander, 12, 31
 Sosa Alfaro, Victor, 47, 80
 Sougrat, Rachid, 6
 Soulimane, Tewfik, 7
 Soultati, Anastasia, 75
 Sovari, Sara Nasiri, 40
 Soy, Rodah, 37
 Spingler, Bernhard, 26
 Srinivasan, A, 25
 Stawski, Wojciech, 68
 Steen, Dorika, 79
 Stefanelli, Manuela, 10, 21
 Steinebrunner, David, 3
 Stepanova, Darya, 63
 Stepien, Marcin, 4, 68
 Stetsovych, Oleksandr, 20
 Stiller, Olivia, 28
 Stillman, Martin, 17
 Storm, Julian, 7
 Stoumpidi, Aspasia, 74
 Stupp, Samuel I., 27
 Stuzhin, Pavel, 29, 55, 62, 69
 Sugano, Yuki, 52
 Sugiura, Ken-ichi, 22
 Sujesh, S, 54
 Sukiennik, Jakub, 46
 Sun, He, 49
 Sun, Qiang, 51
 Sun, Yahan, 68
 Supuran, Claudiu T, 78
 Suzuki, Yui, 42
 Svec, Martin, 56
 Svendsen, Clive, 54
 Swart, Marcel, 82
 Sweeney, Tyler, 16
 Sybachin, Andrey, 63
 Szyszko, Bartosz, 66
- ## T
- Täubert, Denise, 36, 62
 Takeuchi, Shouichi, 22
 Tamiaki, Hitoshi, 45, 81
 Tanaka, Kentaro, 38
 Tanaka, Takayuki, 34, 70
 Tanaka, Yusuke, 17
 Tasiar, Mariusz, 49
 Tay, Aaron, 9
 Tazebay, Uygur H., 14
 Tebello, Nyokong, 31
 Teh, James, 54
 Tejerina, Lara, 36
 Telser, Joshua, 50
 Teunissen, Johannes L., 17
 Therien, Michael, 48
 Thesseling, Alexander, 53
 Thomas, Michael. B., 39
 Thondikkal, Sulfikarali, 41
 Tikhomirova, Tatiyana, 82
 Tinsley, Ian C., 40
 Tkachenko, Nikolai, 39, 46
 Todorovic, Smilja, 28
 Tomat, Elisa, 22
 Tomé, Augusto, 79
 Tomé, João, 26, 78, 79
 Top, Sokunthea, 65
 Topal, Sevinc Zehra, 64
 Topkaya, Derya, 14
 Topouza, Magdalini, 75
 Torrent, Miquel, 24
 Torres, Tomás, 3, 8, 26, 29, 32, 36, 37, 38, 43, 50, 51, 56, 61, 62, 63, 64, 72, 73, 77
 Tosha, Takehiko, 16
 Toth, Agota, 38
 Totti, Federico, 82
 Tran, Nancy, 58
 Trashin, Stanislav, 72
 Tresfield, Karen, 6
 Troxler, Thomas, 37
 Truong, Khai-Nghi, 70
 Tselios, Charalampos, 7
 Tshenkeng, Keamogeste, 30
 Tsivadze, Aslan, 29, 50, 73
 Tsukihara, Tomitake, 7
 Tuna, Ali, 65, 77
 Tyagi, Amit, 12
- ## U
- Ubasart, Ernest, 38
 Uchida, Takeshi, 79, 81
 Uchiyama, Masanobu, 17
 Uno, Hidemitsu, 42
 Urbani, Maxence, 56
 Urgel, José Ignacio, 56
 Uriati, Eleonora, 20
 Urrutia, Maria, 44
 Ustrnul, Lukas, 10, 70
- ## V
- Valbuena, M.A., 56
 Valenzuela, S.O., 56
 Valianti, Vasiliki, 58
 Valli, Ludovico, 21, 71, 75
 van der Est, Art, 44, 57, 75
 Van Doorslaer, Sabine, 28
 Van Raden, Jeff M., 68
 Van Trieste III, Gerard P., 50
 Vargas Jentzsch, Andreas, 43, 73
 Varotsis, Constantinos, 7

Vartanian, Maida, 52
 Vasilopoulou, Maria, 75
 Ventura, Barbara, 4
 Verдини, Alberto, 21
 Vermathen, Martina, 6, 79
 Vernisse, Charlotte, 15
 Viappiani, Cristiano, 20
 Vicente, Graça, 49
 Vieira, Cátia, 15, 32, 47, 79
 Vinogradov, Sergei, 37
 Vo, Nhat-Tam, 22
 Vogt, Lorena, 36, 62
 Volostnykh, Marina, 73
 Voppichler, Oliver, 78
 Vullev, Valentine I., 65
 Vyalkin, Dmitriy, 82

W

Waheed, Sadiq, 47, 80
 Wahiduzzaman, Mohammad, 72
 Walde, Peter, 47
 Waluk, Jacek, 20, 29, 66
 Wang, Hong, 37
 Wang, HongQiang, 54
 Wang, Qingqing, 15
 Wang, Sisi, 41
 Wang, Yitong, 41, 62
 Ware, David, 9
 Warren, Martin, 45
 Wassermann, Tobias, 30
 Watanabe, Bunta, 58
 Wehrung, Iris, 44
 Wei, Qufu, 15
 Weidinger, Inez, 27
 Weinert, Emily, 16
 Weiss, Emily A., 27
 Wiehe, Arno, 79
 Wieland, Gerhard D., 79
 Wijeratne, Gayan, 16
 Wincenciuk, Aleksandra, 80
 Winum, Jean-Yves, 78
 Wittstock, Arne, 3
 Wöhrle, Dieter, 3
 Wöll, Christof, 31, 44
 Wohlwend, Daniel, 80
 Woller, Tatiana, 17, 24
 Wong Chi Man, Michel, 6
 Wong, Michelle, 54
 Woods, Joseph, 43, 73
 Würthner, Frank, 8

Y

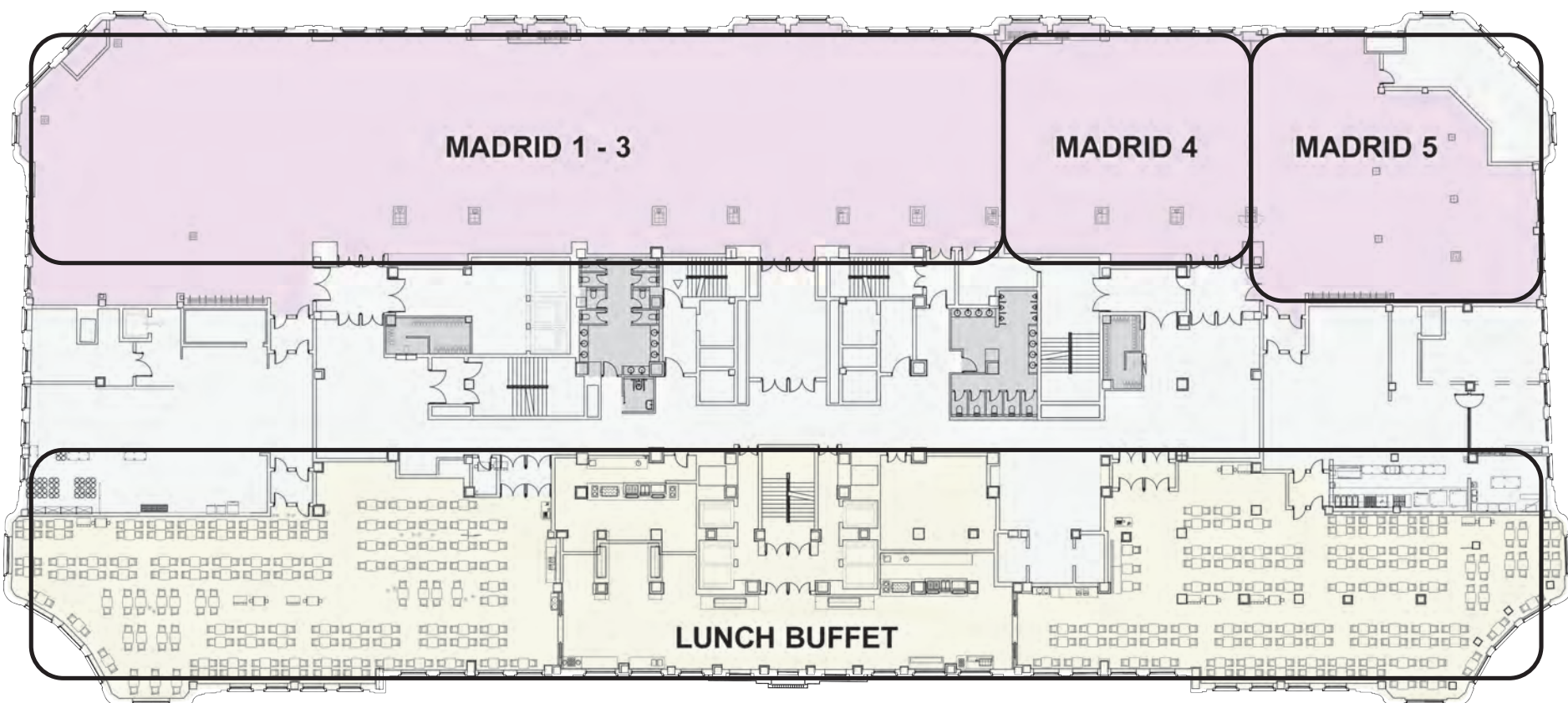
Yadav, Bharti, 68
 Yadav, Inderpal, 65
 Yamada, Hiroko, 52
 Yamashita, Ken-ichi, 22
 Yamashita, Masahiro, 29, 56
 Yang, Jian, 54, 65
 Yang, Zhi-Shu, 24
 Yano, Yoshio, 20
 Yaseen, Aymen Nabeel, 78
 Yasuda, Saki, 58
 Yazici, Ceyhun, 78
 Yeh, Syun-Ru, 7, 16
 Yivlialin, Rossella, 20
 Yoneda, Tomoki, 61
 Yoneda, Yusuke, 44
 Yoshikawa, Shinya, 7
 Yoshizawa, Kazunari, 20
 Yoshizawa, Michito, 70
 Yot, Pascal G., 72
 Yu, John, 54
 Yu, Mina, 58
 Yuan, Xiaojiao, 22
 Yüceel, Cigdem, 74
 Yüzer, A. Celil, 5

Z

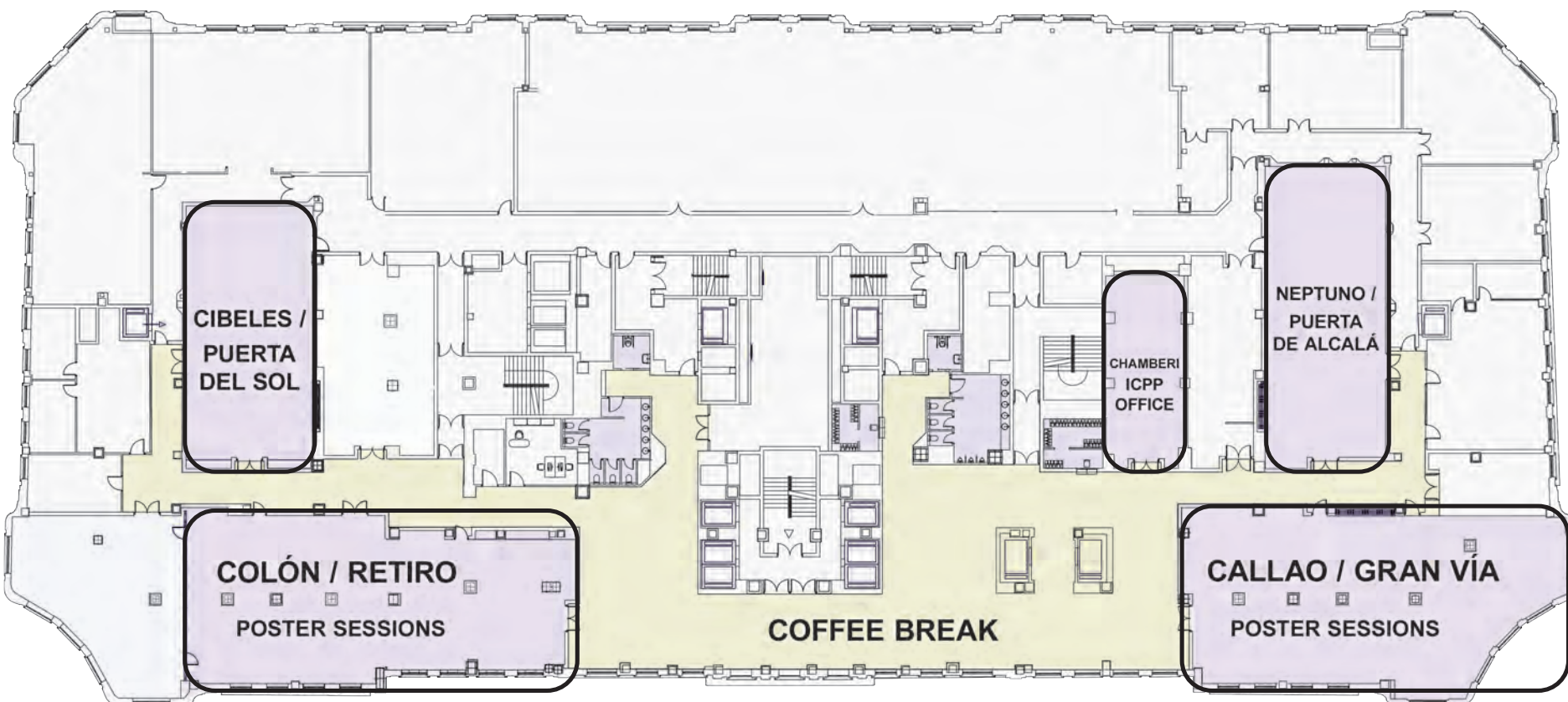
Zagami, Roberto, 15, 38
 Zanolli, Gloria, 64
 Zarandi, Mohammed, 3
 Zarrabi, Niloofar, 75
 Zatsikha, Yuriy, 41
 Zelder, Felix, 45
 Zeller, Matthias, 29, 67
 Zhabanov, Yuriy, 62, 63, 69, 82
 Zhan, Xuan, 54
 Zheng, Gang, 6, 32, 63
 Zheng, Vincent, 58
 Zhang, Hang, 24
 Zhang, Jun-Long, 24
 Zhou, Hoaran, 52
 Zhou, Minghui, 12
 Zhou, Zhikuan, 41
 Zhou, Zihan, 20
 Ziegler, Christopher, 8
 Zimcik, Petr, 26, 63, 69
 Zink-Lorre, Nathalie, 39, 63
 Zion, Noam, 5
 Zobi, Fabio, 40
 Zolotkova, Svetlana, 77
 Zorin, Vladimir, 33
 Zorina, Tatyana, 33
 Zwick, Patrick, 75

Conference Center Map

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3rd Floor Specialized Symposia, Posters & Coffee Break



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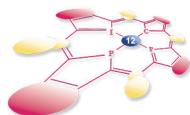


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I. SYNTHESIS

1. SubPhthalocyanines, BODIPYs and related compounds (Double symposium) *Soji Shimizu, M. Victoria Martinez-Diaz & M. Salomé Rodríguez-Morgade*
2. New phthalocyanines and related porphyrinoids – Synthesis and properties (Triple symposium) *Andrew Cammidge, Gema de la Torre, Tomás Torres & Miguel García-Iglesias*
3. Corroles (Synthesis, properties and applications) (Double symposium) *Daniel Gryko, Roberto Paolesse & Zeev Gross*
4. N-confused and other "mis-linked" porphyrins and porphyrinoids *Hiroyuki Furuta*
5. Porphycenes and other porphyrin isomers *Jacek Waluk & Santi Nonell*

II. CHARACTERIZATION & PROPERTIES

6. Exotic porphyrins and novel pyrrolic macrocycles (Double symposium) *Chang-Hee Lee & Hong Wang*
7. NIR-responsive porphyrinoids *Yoshihiro Matano & Hiroko Yamada*
8. Advances in the chemistry and applications of porphyrazines *Pavel A. Stuzhin & Petr Zimcik*
9. Hückel, Möbius, Baird and 3-dimensional aromaticity/antiaromaticity in porphyrinoids - in honor of Atsuhiko Osuka (Double symposium) *Jonathan Sessler, Hiroshi Shinokubo & Dongho Kim*
10. Chiral aspects of porphyrin supramolecular chemistry (Double symposium) *Nina Berova, Roberto Purrello & Victor Borovkov*
11. Paramagnetic polypyrroles including lanthanides complexes and radicals *Yulia Gorbunova & Dmitri V. Konarev*

III. MATERIALS

12. Porphyrin-based chemical sensors *Marcel Bouvet & Corrado Di Natale*
13. Self-assembled systems and materials based on porphyrinoids (Double symposium) *Giovanni Bottari, David Gonzalez-Rodriguez & Athanassios G. Coutsolelos*
14. Porphyrinoid biohybrid materials for light management applications (Double symposium) *Andres de la Escosura Navazo*
15. Porphyrinoids at interfaces: On-surface chemistry and physico-chemical properties (Double symposium) *Willi Auwarter & David Écija*

IV. CATALYSIS & ENERGY

16. Porphyrinoids for catalytic reactions, including water splitting, CO₂ reduction and utilization (Triple symposium) *Emma Gallo, Rui Cao & Mine Ince*
17. From light harvesting to charge separation and charge transport (Double symposium) *Francis D'Souza, Dirk Guldi & Angela Sastre Santos*
18. Porphyrinoids for solar cells *Hiroshi Imahori & Hwankyu Kim*
19. Biomimetic solar conversion *Ally Aukauloo & Fabrice Odobel*
20. Spin transport in molecular and nanoscale systems *Michael Therien & Ron Naaman*
21. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles *Christophe Bucher & Charles H. Devillers*

V. BIOMEDICAL APPLICATIONS

22. Porphyrinoids-based systems for health (Triple symposium) *Reza Ghiladi, Fabienne Dumoulin, Francesca Giuntini & Joao Tomé*

VI. BIOLOGY & BIOCHEMISTRY

23. Heme proteins and synthetic analogues (Double symposium) *John Dawson & Takashi Hayashi*
24. Catalysis in natural and biosynthetic heme proteins (Double symposium) *Anabella Ivancich*
25. Chemistry and biology of corrinoids and related compounds *Dorota Gryko & Felix Zelder*
26. Natural porphyrinoid pigments *Bernhard Kräutler & Franz-Peter Montforts*
27. Heme enzymes: Structure and function (Double symposium) *Denis Rousseau & Syun-Ru Yeh*

VII. THEORY & MODELLING

28. Theory and spectroscopy *Nagao Kobayashi & Martin Stillman*

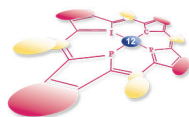
VIII. CONTRIBUTED TALKS

30. SYNTHESIS, CHARACTERIZATION & PROPERTIES *Miguel García-Iglesias & José García Calvo*
31. MATERIALS, CATALYSIS & ENERGY *Ally Aukauloo, Luis Martin-Gomis, Hong Wang, Marcel Bouvet*
32. BIOMEDICAL, BIOLOGY & BIOCHEMISTRY *Santi Nonell, Dmitriy Berezin, Joao Tomé, David Sánchez-Garcia*

PROFESSOR OF MATHEMATICS

Specialized Symposia Schedule of Oral Presentations

Specialized Symposia Schedule of Oral Presentations				SYNTHESIS	CHARACTERIZATION & PROPERTIES	MATERIALS	CATALYSIS & ENERGY	BIOMEDICAL APPLICATIONS	BIOLOGY & BIOCHEMISTRY	THEORY & MODELLING	
ROOM	Monday 11 July			Tuesday 12 July			Thursday 14 July			Friday 15 July	
	Morning 11:00 - 13:00	Afternoon 14:30 - 16:30	Late Afternoon 17:00 - 19:00	Morning 10:30 - 12:30	Afternoon 14:00 - 16:00	Late Afternoon 16:30 - 18:30	Morning 10:30 - 12:30	Afternoon 14:00 - 16:00	Late Afternoon 16:30 - 17:30	Morning 10:30 - 12:30	Afternoon 14:00 - 16:00
MADRID 1 - 3	2a. New phthalocyanines and related porphyrinoids – Synthesis and properties organized by Andrew Cammidge, Gema de la Torre, Tomás Torres & Miguel García-Iglesias	2b. New phthalocyanines and related porphyrinoids – Synthesis and properties organized by Andrew Cammidge, Gema de la Torre, Tomás Torres & Miguel García-Iglesias	2c. New phthalocyanines and related porphyrinoids – Synthesis and properties organized by Andrew Cammidge, Gema de la Torre, Tomás Torres & Miguel García-Iglesias	9a. Hückel, Möbius, Baird and 3-dimensional aromaticity/antiaromaticity in porphyrinoids - in honor of Atsuhiko Osuka organized by Jonathan Sessler, Hiroshi Shinokubo & Dongho Kim	9b. Hückel, Möbius, Baird and 3-dimensional aromaticity/antiaromaticity in porphyrinoids - in honor of Atsuhiko Osuka organized by Jonathan Sessler, Hiroshi Shinokubo & Dongho Kim	31. MATERIALS, CATALYSIS & ENERGY organized by Ally Aukauloo & Luis Martin-Gomis	1a. SubPhthalocyanines, BODIPYs and related compounds organized by Soji Shimizu, M. Victoria Martínez-Díaz & M. Salomé Rodríguez-Morgade	1b. SubPhthalocyanines, BODIPYs and related compounds organized by Soji Shimizu, M. Victoria Martínez-Díaz & M. Salomé Rodríguez-Morgade	31. MATERIALS, CATALYSIS & ENERGY organized by Hong Wang & Marcel Bouvet	3a. Corroles (Synthesis, properties and applications) organized by Daniel Gryko, Roberto Paolesse & Zeev Gross	3b. Corroles (Synthesis, properties and applications) organized by Daniel Gryko, Roberto Paolesse & Zeev Gross
	MADRID 4	22a. Porphyrinoids-based systems for health organized by Reza Ghiladi, Fabienne Dumoulin, Francesca Giuntini & Joao Tomé	22b. Porphyrinoids-based systems for health organized by Reza Ghiladi, Fabienne Dumoulin, Francesca Giuntini & Joao Tomé	22c. Porphyrinoids-based systems for health organized by Reza Ghiladi, Fabienne Dumoulin, Francesca Giuntini & Joao Tomé	5. Porphycenes and other porphyrin isomers organized by Jacek Waluk & Santi Nonell	4. N-confused and other "mis-linked" porphyrins and porphyrinoids organized by Hiroyuki Furuta	32. BIOMEDICAL, BIOLOGY & BIOCHEMISTRY organized by Santi Nonell & Dmitry Berezin	6a. Exotic porphyrins and novel pyrrolic macrocycles organized by Chang-Hee Lee & Hong Wang	6b. Exotic porphyrins and novel pyrrolic macrocycles organized by Chang-Hee Lee & Hong Wang	32. BIOMEDICAL, BIOLOGY & BIOCHEMISTRY organized by Joao Tomé & David Sánchez-García	11. Paramagnetic polypyrrols including lanthanides complexes and radicals organized by Yulia Gorbunova & Dmitrii V. Konarev
MADRID 5	16a. Porphyrinoids for catalytic reactions, including water splitting, CO2 reduction and utilization organized by Emma Gallo, Rui Cao & Mine Ince	16b. Porphyrinoids for catalytic reactions, including water splitting, CO2 reduction and utilization organized by Emma Gallo, Rui Cao & Mine Ince	16c. Porphyrinoids for catalytic reactions, including water splitting, CO2 reduction and utilization organized by Emma Gallo, Rui Cao & Mine Ince	12. Porphyrin-based chemical sensors organized by Marcel Bouvet & Corrado Di Natale	14. Porphyrinoid biohybrid materials for light management applications organized by Andres de la Esocosura Navazo	30. SYNTHESIS, CHARACTERIZATION & PROPERTIES organized by Miguel García-Iglesias & José García Calvo	13a. Self-assembled systems and materials based on porphyrinoids organized by Giovanni Bottari, David Gonzalez-Rodriguez & Athanasios Coutsolelos	13b. Self-assembled systems and materials based on porphyrinoids organized by Giovanni Bottari, David Gonzalez-Rodriguez & Athanasios Coutsolelos		15a. Porphyrinoids at interfaces: On-surface chemistry and physico-chemical properties organized by Willi Auwärter & David Ecija	15b. Porphyrinoids at interfaces: On-surface chemistry and physico-chemical properties organized by Willi Auwärter & David Ecija
CIBELES / PUERTA DEL SOL	7. NIR-responsive porphyrinoids organized by Yoshihiro Matano & Hiroko Yamada	10a. Chiral aspects of porphyrin supramolecular chemistry organized by Nina Berova, Roberto Purrello & Victor Borovkov	10b. Chiral aspects of porphyrin supramolecular chemistry organized by Nina Berova, Roberto Purrello & Victor Borovkov	21. Redox chemistry and electrochemistry of porphyrinoids and oligoporphyrroles organized by Christophe Bucher & Charles H. Devillers	19. Biomimetic solar conversion organized by Ally Aukauloo & Fabrice Odobel		17a. From light harvesting to charge separation and charge transport organized by Francis D'Souza, Dirk Guldi & Angela Sastre Santos	17b. From light harvesting to charge separation and charge transport organized by Francis D'Souza, Dirk Guldi & Angela Sastre Santos		18. Porphyrinoids for solar cells organized by Hiroshi Imahori & Hwankyuu Kim	20. Spin transport in molecular and nanoscale systems organized by Michael Thierion & Ron Naaman
NEPTUNO / PUERTA DE ALCALÁ	27a. Heme enzymes: Structure and function organized by Denis Rousseau & Syun-Ru Yeh	27b. Heme enzymes: Structure and function organized by Denis Rousseau & Syun-Ru Yeh	28. Theory and spectroscopy organized by Martin J. Stillman & Nagao Kobayashi	24a. Catalysis in natural and biosynthetic heme proteins organized by Anabella Ivancich	24b. Catalysis in natural and biosynthetic heme proteins organized by Anabella Ivancich		25. Chemistry and biology of corrinoids and related compounds organized by Dorota Gryko & Felix Zelder	26. Natural porphyrinoid pigments organized by Bernhard Kräutler & Franz-Peter Montforts		23a. Heme proteins and synthetic analogues organized by John Dawson & Takashi Hayashi	23b. Heme proteins and synthetic analogues organized by John Dawson & Takashi Hayashi



ICPP-12 MADRID SPAIN 10-15 JULY 2022
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