

ICPP14

KYOTO

INTERNATIONAL CONFERENCE ON PORPHYRINS & PHTHALOCYANINES

28 JUNE - 3 JULY 2026

KYOTO TERRSA CONFERENCE CENTER JAPAN

SCIENTIFIC PROGRAM

ICPP-SPP.ORG

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Specialized Symposia

Synthesis (7)

1. Emergence of novel fused and strained porphyrinoids: Synthesis and structures
Yasuhide Inokuma, Jeyaraman Sankar & Miłosz Pawlicki

2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications
M. Salomé Rodríguez-Morgade, Timothy Bender & Soji Shimizu

3. Corroles
Roberto Paolesse, Takayuki Tanaka, Daniel Gryko & Sara Nardis

4. Carbaporphyrinoids with N-confusion and fusion
Hiroyuki Furuta & Yongshu Xie

5. Synthesis and properties of porphyrinoids
Tomás Torres, Andrew Cammidge & Gema de la Torre

6. aza-BODIPYs and their analogs
Victor Nemykin & Christopher Ziegler

7. Functional porphyrinoids for health applications and sustainability
Claude Gros, Mathias Senge & Kevin Smith

Characterization (7)

8. Exotic porphyrins and novel heteroaromatic macrocycles
Hong Wang, Pradeepta Panda & Tomohiro Higashino

9. NIR-responsive porphyrinoids
Taniyuki Furuyama, Yoshihiro Matano & Harry Anderson

10. Highly conjugated porphyrinoids
Masayoshi Takase, Jishan Wu & Tetsuo Okujima

11. Porphycenes
Jacek Waluk, Arkadiusz Listkowski & Toshikazu Ono

12. Aromaticity and antiaromaticity
Hiroshi Shinokubo, Dongho Kim & Jonathan Sessler

13. Chiral porphyrinoids and related systems
Alessandro D'Urso & Manuela Stefanelli

14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues
Pavel Stuzhin

Materials (6)

15. Porphyrinoids at interfaces
Willi Auwärter, David Écija & Wolfgang Schöfberger

16. Organic electronics and sensors
Marcel Bouvet, Corrado Di Natale, Benoît Lessard & Hiroko Yamada

17. Self-assembled systems and materials
Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez

18. Pyrrole-based π-systems
Hiromitsu Maeda & Jean Weiss

19. Artificial photosynthetic systems
Dirk Guldi, Angela Sastre-Santos & Francis D'Souza

20. MOF and COF
Shengqian Ma & Takashi Uemura

Energy (6)

21. Catalysis for sustainability
Tadashi Ema, Xianhong Wang & Emma Gallo

22. Solar cells and fuels
Hiroshi Imahori & Fabrice Odobel

23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles
Charles Devillers, Gabriel Canard & Masatoshi Ishida

24. Photocatalysis
Zeev Gross & Yusuke Kuramochi

25. Spin transport and dynamics in molecular and nanoscale systems
Michael Therien & Ryan Hadt

26. Catalytic activation of CO_2: From fuels to complex molecules
Marc Robert, Mio Kondo & Shigeyuki Masaoka

Biomedical (7)

28. Activatable probes for cancer imaging and therapy
Gang Zheng & Yasuteru Urano

29. Health and sustainability
Francesca Giuntini, Antonino Mazzaglia & Hiroaki Kitagishi

30. Functional chromophores for sensing and imaging
Veronika Novakova, Anzhela Galstyan & Jonathan Hill

31. Development of advanced photosensitizers
Pui-Chi Lo & Yutaka Amao

32. Photoimmunotherapy
Janusz Dabrowski & Tayyaba Hasan

33. Porphyrinoids in photomedicine
Fabienne Dumoulin & Takahiro Nomoto

Biochemistry (6)

34. Heme proteins and synthetic analogues
John Dawson & Takashi Hayashi

35. Catalysis in natural and biosynthetic heme proteins
Anabella Ivancich, Giulietta Smulevich & Osami Shoji

36. Heme sensors, regulations and trafficking
Koichiro Ishimori & Emily Weinert

37. Heme enzymes: Structure and function
Shun Hirota, Denis Rousseau & Syun-Ru Yeh

38. Chemistry and biology of corrinoids and related compounds
Felix Zelder, Hisashi Shimakoshi & Dorota Gryko

39. Chemistry and biology of natural porphyrinoid pigments
Hitoshi Tamiaki & Bernhard Kräutler

Theory (2)

40. Optical spectroscopy and photochemistry
Mikalai Kruk, Sergei Vinogradov, John Mack, Zhen Shen & Kazuyuki Ishii

41. Theory and spectroscopy
Martin Stillman and Nagao Kobayashi

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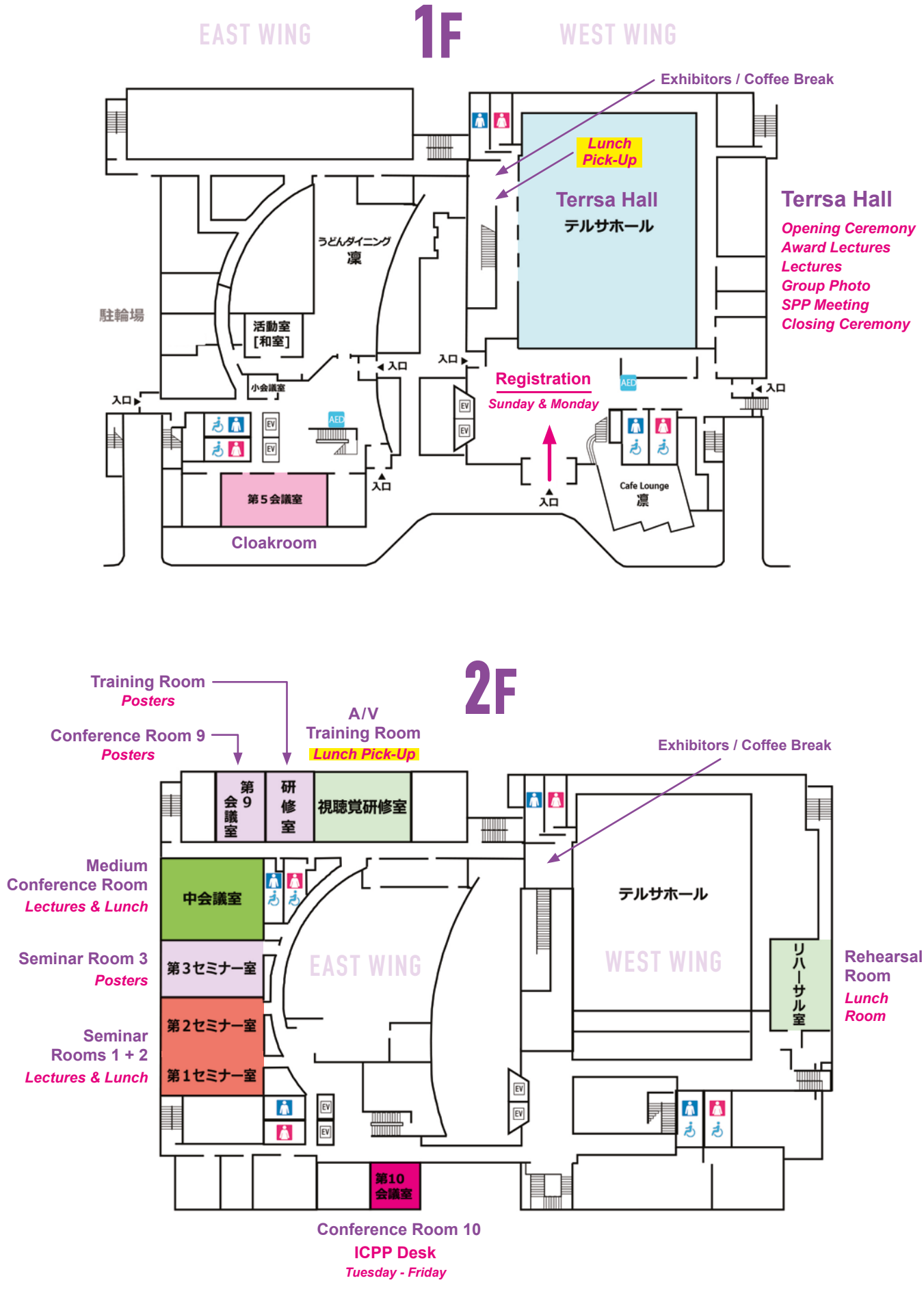
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Specialized Symposia Schedule : Oral Presentations

SYNTHESIS | CHARACTERIZATION | MATERIALS | ENERGY | BIOCHEMISTRY | BIOMEDICAL | THEORY

FLOOR	ROOM	Monday, 29 June			Tuesday, 30 June			Thursday, 2 July				Friday, 3 July		
		AM 11:00 - 13:00	PM 14:00 - 16:00	PM 16:30 - 18:30	AM 10:30 - 12:50	PM 14:00 - 16:00	PM 16:30 - 18:30	AM 10:30 - 12:50	PM 14:00 - 16:00	PM 16:30 - 18:30		AM 10:30 - 12:50	PM 14:00 - 16:00	
3F	Conference Room 2	34	34	35	35	36	36	37	37	34		38 10:30 to 12:10	39 12:10 to 13:10	39
	Large Conference Room A + B	Lunch Room 12:00 to 13:45	8	8	12 10:30 to 11:50	Lunch Room 12:00 to 13:45	12	13	10	11	14	14 10:30 to 11:30	9 11:30 to 12:30	9
	Large Conference Room C	18	18	15	15	20	20	17	17	17 16:30 to 17:30	42 contributed 17:30 to 18:30	16	16	
	Conference Room D	Lunch Room 12:00 to 13:45	19	41	Lunch Room 12:00 to 13:45	24	24	40 10:30 to 11:30	Lunch Room 12:00 to 13:45	40	40	40	6	
2F	Seminar Rooms 1 + 2	Lunch Room 12:00 to 13:45	26	26	25 10:30 to 11:50	Lunch Room 12:00 to 13:45	25	23	23 10:30 to 11:50	Lunch Room 12:00 to 13:45	21	21	22 10:30 - 11:50	Lunch Room 12:00 to 13:45	22
	Medium Conference Room	28 11:00 to 12:00	Lunch Room 12:15 to 13:45	28	1	33	33	33	29 10:30 to 11:50	Lunch Room 12:00 to 13:45	29	30	32	31 14:00 to 15:00	43 contributed 15:00 to 16:00
	Rehearsal Room	Lunch Room 12:00 to 13:45			Lunch Room 12:00 to 13:45			Lunch Room 12:00 to 13:45				Lunch Room 12:00 to 13:45		
	AV Training Room	Lunch Room 12:00 to 13:45			Lunch Room 12:00 to 13:45			Lunch Room 12:00 to 13:45				Lunch Room 12:00 to 13:45		
1F	Terrsa Hall	5	5	5	5	5 14:00 to 15:00	4 15:00 to 16:00	4	2	2	3	3 10:30 to 12:10	7	

Conference Center Floor Plan



Conference Center Floor Plan



Specialized Symposia by Room

3F

Conference Room 2	34, 35, 36, 37, 38, 39
Large Conference Rooms A + B	8, 9, 10, 11, 12, 13, 14
Large Conference Room C	15, 16, 17, 18, 20, 42
Conference Room D	6, 19, 24, 40, 41

2F

Training Room	Posters
Conference Room 9	Posters
Seminar Rooms 1 + 2	21, 22, 23, 25, 26
Seminar Room 3	Posters
Medium Conference Room	1, 28, 29, 30, 31, 32, 33, 43

1F

Terrsa Hall	2, 3, 4, 5, 7

Sunday, 28 June

Conference Registration

13:00 to 16:00 **Kyoto TERRSA Conference Center** *(1.2 km south of Rihga Royal Hotel) - Floor 1 -* ***Main Lobby***
70 Higashikujo Shimotonoda-cho, Minami-ku, Kyoto, Japan *(within Kyoto Citizen's Amenity Plaza)*

Welcome Reception - *entry with conference badge only*

18:30 to 20:30 **RIHGA Royal Hotel Kyoto** - *Floor 2 -* ***Shunju Banquet Hall***
1-Taimatsu-cho, Shiokoji-sagaru, HigashiHorikawa-dori, Shimogyo-ku, Kyoto, Japan, 600-8237

Monday, 29 June

Conference Registration & ICPP Desk

08:30 **Kyoto TERRSA Conference Center** - *Floor 1 -* ***Main Lobby***

Tuesday to Friday **Kyoto TERRSA Conference Center** - *Floor 2 -* ***Conference Room 10***

Opening Ceremony

09:00 to 09:30 **Kyoto TERRSA Conference Center** - *Floor 1 -* ***Terrsa Hall***

Wednesday, 1 July

Excursions - *See next page*

Gala Dinner - *entry by ticket only*

19:00 to 22:30 **RIHGA Royal Hotel Kyoto** - *Floor 2 -* ***Shunju Banquet Hall***

Friday, 3 July

SPP Meeting & Closing Ceremony

16:15 to 17:15 **Kyoto TERRSA Conference Center** - *Floor 1 -* ***Terrsa Hall***

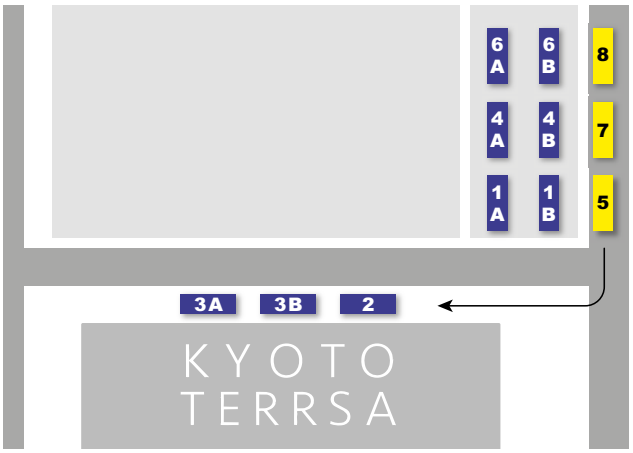
Excursions

As usual, at every ICPP, we're pleased to include a midweek excursion with your registration. On Wednesday afternoon, July 1st, participants can explore stunning World Heritage sites or visit well-known industrial companies.

Spaces are limited and assigned based on your selection in the ICPP questionnaire. Your chosen excursion and coach number are indicated on a ticket in your registration pack, and your coach number is also on your conference badge. Please bring both to show the conductor that you're on the correct coach.

After lunch, participants on the **blue coaches will start boarding**. Those on coaches #**5**, #**7**, and #**8** should wait inside the Terrsa building until coaches **#3A**, #**3B**, and #**2** have left, and the yellow buses arrive at the front of the Terrsa entrance.

Participation in the excursions is voluntary and at your own risk. The conference and local organizers are not responsible for accidents, injuries, losses, or inconveniences. Participants should ensure they have suitable travel or personal insurance, as needed.





Excursion 1 : **Kinkaku-ji to Ryoan-ji** tinyurl.com/ICPP14-Excursion1

12:30 After lunch, board your assigned coach on time at the Terrsa Conference Center parking lot.
12:45 Coach departure.
13:35 Arrive at **Kinkaku-ji temple** (A).
13:50 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. *www.shokoku-ji.jp/en/kinkakuji/*
14:50 Return to the car-park to board your coach.
15:00 Coach departure. (If you miss the coach, it will wait for you at the Ryoan-ji temple - 15~20 min walk from Kinkaku-ji)
15:10 Arrive at **Ryoan-ji temple** (B)- students at the entrance will provide a ticket to visit the temple. *www.ryoanji.jp/smph/eng/*
***Optional** (not included) :* **Ninna-ji temple** - 15 min walk from Ryoan-ji temple. *https://ninnaji.jp/en/*
16:20 Return to the coach. (If you miss the coach, take the *JR West Bus* - 16:35, 16:55, 17:30, 18:00 - from *Ryoan-ji-mae* bus stop to *Kyoto Station*).
16:30 Coach departure.
17:20 Stop at *Rihga-Royal Hotel* then at *Kyoto station*



Excursion 2 : **Ginkaku-ji & Philosopher's Path** tinyurl.com/ICPP14-Excursion2

12:30 After lunch, board your assigned coach on time in front of the Terrsa Conference Center.
12:45 Coach departure.
13:30 Arrive (A) at **Ginkaku-ji temple**. (B)
13:45 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. *www.shokoku-ji.jp/en/ginkakuji/*
15:00 Walk 15 min. to **Hounen-in temple.** (C)
15:15 Visiting **Hounen-in temple** (no ticket required).
15:45 Enjoy a scenic walk on the **Philosopher's Path**. (C-A)
16:30 Take the city bus n° 105, 5 or 7 at the *Ginkakuji-michi* bus-stop (F), back to *Kyoto station*. (Tickets provided)
17:10 Stop at *Kyoto station*.

***Optional** (not included):* **Anraku-ji** (D) - 20 min walk from Ginkaku-ji temple. *www.anrakuji-kyoto.com*
***Optional** (not included):* **Hakusason-so** (E)- next to Ginkaku-ji temple car-park. *www.hakusasonso.jp/english*
***Optional** (not incl.):* **Daimonji mountain** - 40 min walk (one-way) from Ginkaku-ji temple. *insidekyoto.com/mt-daimonji-yama-hike-ginkaku-ji-temple*

Excursions



Excursion 3 : **Arashiyama Area** tinyurl.com/ICPP14-Excursion3

12:30 After finishing lunch, board your assigned coach on time in front of the Terrsa Conference Center.

12:45 Coach departure.

13:30 Arrive (A) at **Tenryu-ji temple**. (B)

13:45 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. *www.shokoku-ji.jp/en/ginkakuji/*

14:00 Start with a visit inside the **Tenryu-ji temple buildings**, then a stroll through the gardens, exiting through the *North Gate* to reach the **Bamboo Forest**.

15:00 Walk along the **Bamboo Forest Path.** (C - E)

***Optional** (not included) :* **Jojakko-ji temple** (D) - 10 min walk from the forest path.

16:00 Head to the **observation deck**, (F) then onto the **Katsura river** to see the **Togetsu-kyo bridge**. (H)

16:30 Walk through the **shopping street**, onto the *JR Saga-Arashiyama station* (I) - take the JR train to *Kyoto station*. (Tickets provided)

16:45 Stop at *Kyoto station*.



Excursion 4 : **Fushimi-inari** tinyurl.com/ICPP14-Excursion4

12:30 After lunch, board your assigned coach on time at the Terrsa Conference Center parking lot.

12:45 Coach departure.

13:30 Arrive at **Fushimi-inari** parking.

13:45 Walking visit of **Fushimi-inari.** *https://inari.jp/en/*
Choose your preferred walk from two **energetic** and two **relaxed** walks :
https://inari-kyoto.com/modelcourse

16:30 Head to *JR Inari station* to take the JR train to *Kyoto station*. (Tickets provided)

16:45 Stop at *Kyoto station*.



Excursion 5 : **Uji-Byodo-in temple** tinyurl.com/ICPP14-Excursion5

12:30 After finishing lunch, please wait inside the Terrsa Conference Center Main Lobby

12:45 Once the coach is ready, you will be guided to the boarding area.

13:40 Arrive at **Uji-Byodo-in temple** (A)

13:50 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to visit the **gardens** and the **museum**

***Optional** (not included) :* To visit the interior of the **Phoenix Hall**, a reservation and separate ticket purchase (300 yen) is required upon entering the temple grounds. Please first secure your ticket before exploring the gardens.

14:50 Cross the **Asagiri-bashi Bridge**, visit the **Uji Shrine** (B) *http://uji-jinja.com/guide/index.html* and **Uji-gami Shrine** (C) *https://www.ujikamijinja.jp). **Optional** :* **Observation Deck** (D) then finish the walk *via* the **Matcha-shops** (E) onto *JR Uji Station* (F).

16:30 At the *JR Uji station*, take the JR train to *Kyoto station*. (Tickets provided)

17:00 Stop at *Kyoto station*.

Excursions



Excursion 6 : **Takao Area** https://tinyurl.com/ICPP14-Excursion6

12:30 After lunch, board your assigned coach on time at the Terrsa Conference Center parking lot.

12:45 Coach departure.

13:45 Arrive at **Kosan-ji temple** parking.
- Head toward **Jingo-ji Temple**. (B)
- Walk along the road for a few minutes, then take the path down to the **pedestrian walkway.**
- **CAUTION**: Be aware of traffic and the transition to the walkway.

14:15 Visit the **Jingo-ji temple.** (B) Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit the temple**. *www.discoverkyoto.com/places-go/jingo-ji/*

- A **scenic viewpoint** can be found at the back of the temple grounds.

- Try **Kawarake-nage**, a traditional Japanese practice in which you throw unglazed clay discs into the valley. It is believed to ward off bad luck and bring good fortune.

15:15 ***Optional*** *(not included) :* Head toward **Saimyo-ji temple.** (C) Visiting the **Saimyo-ji temple** requires a cash admission fee.

16:00 Head back to the **Kosan-ji temple** parking (E). ***Optional*** *(not included) :* Visit the **Kosan-ji temple** (D) (cash admission fee).

16:20 Board the coach promptly.

16:30 Coach departure. (If you miss the coach, take the *JR West Bus* to *Kyoto Station* from the following stops :
Togano-o : 17:14 / 17:59, *Makino-o* : 17:15 / 18:00, *Takao* : 17:16 / 18:01

17:20 Stop at *Rihga-Royal Hotel* then at *Kyoto station*



Excursion 7 : **HORIBA Tour** ***(via Toji-temple)***

12:30 After finishing lunch, please wait inside the Terrsa Conference Center Main Lobby

12:45 Once the coach is ready, you will be guided to the boarding area.

13:00 Coach departure.

13:15 Arrive at **Toji-temple** parking.

13:20 Students in purple ICPP T-shirts at the entrance will provide you with an admission ticket to **visit** the **Toji-temple**. *https://toji.or.jp/en/*

14:10 Board the coach promptly

14:15 Coach departure.

14:30 Visiting tour of **HORIBA**

16:45 Coach departure from HORIBA

17:00 Stop at *Rihga-Royal Hotel* then at *Kyoto station*



Excursion 8 : **SHIMADZU Tour**

12:30 After finishing lunch, please wait inside the Terrsa Conference Center Main Lobby

12:45 Once the coach is ready, you will be guided to the boarding area.

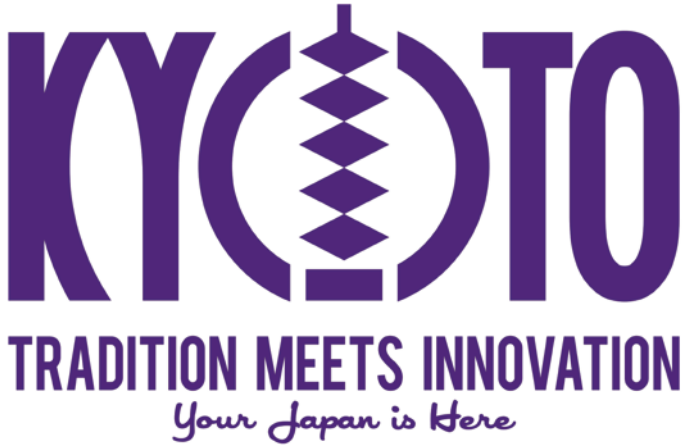
13:00 Coach departure.

13:30 Visiting tour of **SHIMADZU**

16:00 Coach departure from **SHIMADZU**

16:30 Stop at *Rihga-Royal Hotel* then at *Kyoto station*





This program is supported by a subsidy funded by the accommodation tax
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28 JUNE - 3 JULY 2026

Conference Scope

All aspects of porphyrins, phthalocyanines, and related macrocycles will be covered through invited lectures, oral presentations, and poster sessions over the full five-day meeting. Four scientists will be honored with Lifetime Achievement Awards in 2026, and four Young Investigator Awards will also be presented. All awards will include featured lectures by the recipients.

Local Organizing Committee

Hiroshi Imahori - Host and Chairman - *Kyoto University, Japan*
Atsuhiro Osuka - Honorary Chair - *Kyoto University, Japan*
Shunichi Fukuzumi - Honorary Chair - *Osaka University, Japan*

Hiroko Yamada - Vice-chair - *Kyoto University, Japan*
Takashi Hayashi - Vice-chair - *Osaka University, Japan*
Hiroshi Shinokubo - Vice-chair - *Nagoya University, Japan*

Tomohiro Higashino - *Kyoto University, Japan*
Midori Akiyama - *RIKEN, Japan*
Shun Hirota - *NAIST, Japan*
Mitsuaki Yamauchi - *Kyoto University, Japan*
Hiromitsu Maeda - *Ritsumeikan University, Japan*
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Masayoshi Takase - *Ehime University, Japan*

Tetsuo Okujima - *Ehime University, Japan*
Taniyuki Furuyama - *Kanazawa University, Japan*
Yasuhide Inokuma - *Hokkaido University, Japan*
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Kazuyuki Ishii - *University of Tokyo, Japan*
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W. Ryan Osterloh - *Kyoto University, Japan*

Organized by

Society of Porphyrins and Phthalocyanines (SPP)

Karl M. Kadish - President SPP - *Houston TX. USA* - icpp@uh.edu
Francis D'Souza - Vice President SPP - *Denton TX. USA* - francis.dsouza@unt.edu
Matthew Padgett - General Secretary SPP - *Dijon, France* - icpp@spp-jpp.org

ICPP14 website : **www.icpp-spp.org**
SPP website : **www.spp-jpp.org**



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28 JUNE - 3 JULY 2026

Scientific Program

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Full Schedule . . . . . Back Cover

Major Sponsors and Exhibitors

Sanyu Chemical Co., Ltd.

Frontier Specialty Chemicals

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Sponsors of

Lifetime Achievement Awards

Hans-Fischer-Gesellschaft

PorphyChem

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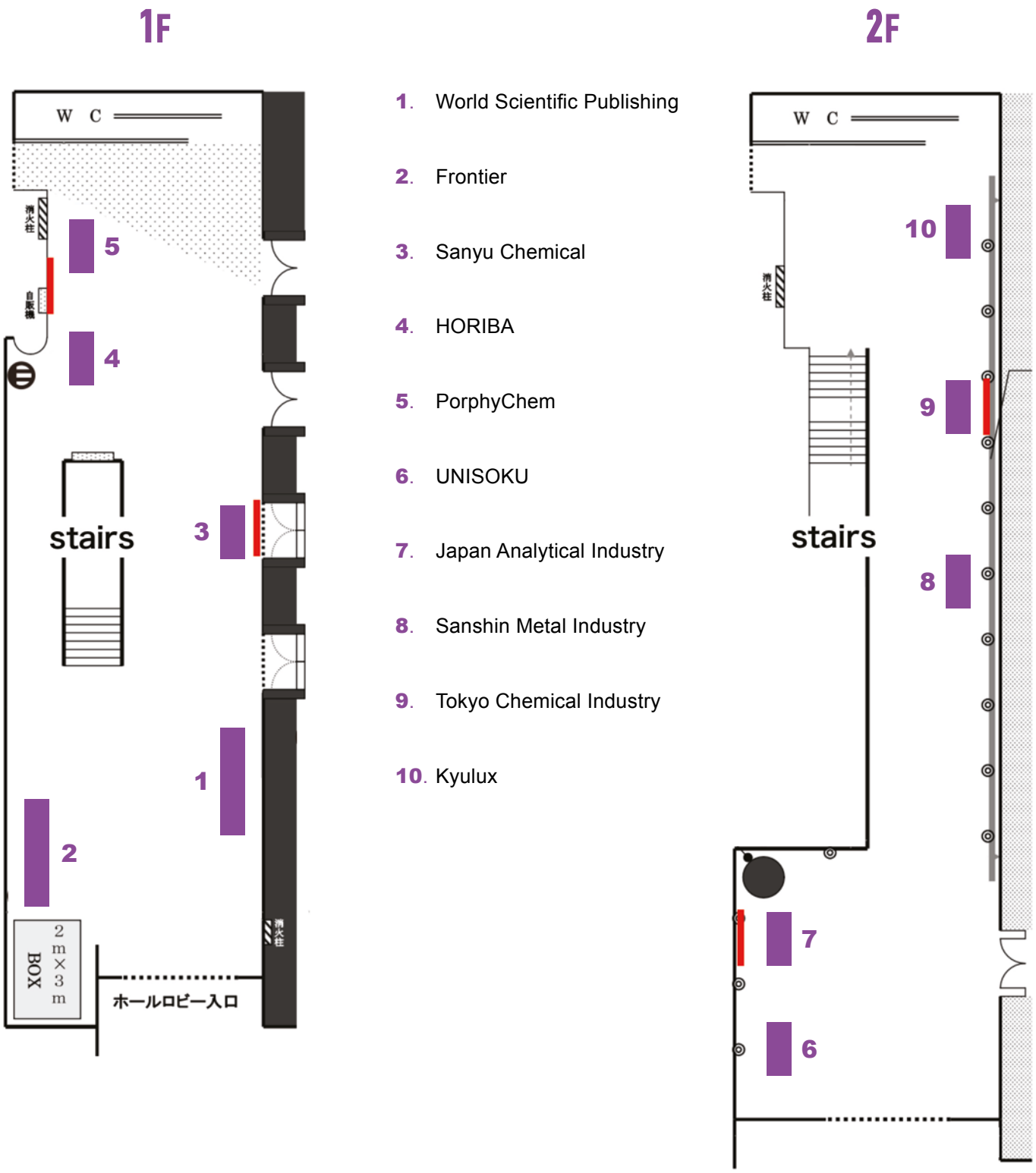
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Exhibitors

Lobbys 1F and 2F



1. World Scientific Publishing
2. Frontier
3. Sanyu Chemical
4. HORIBA
5. PorphyChem
6. UNISOKU
7. Japan Analytical Industry
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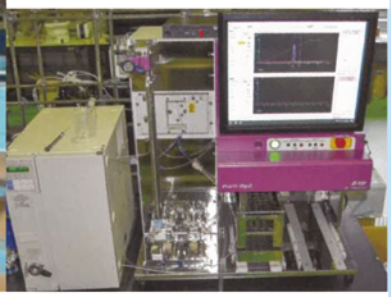
Pharmaceuticals:
active pharmaceutical ingredients (APIs), intermediates, reference standards, impurities, metabolites, etc.

Material Science:
OLED, OPV, OFET, various functional, low molecular and polymers





mL ~200L scale

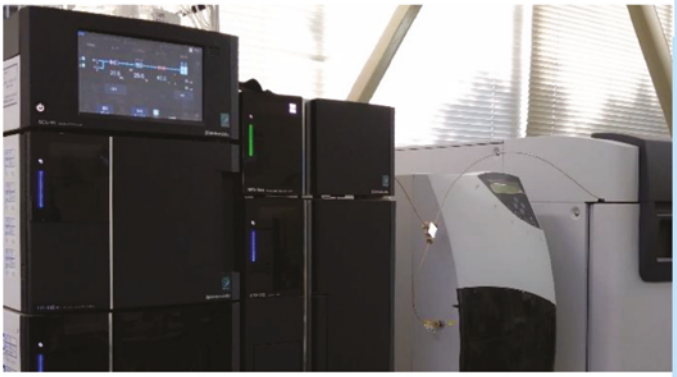


100L column

purification system

Equipments

NMR (400 MHz), UPLC-MS, HPLC, GC, GPC, purification system autoclave, microwave, ozone and photoreaction



UPLC-MS

Sanyu Chemical Co.,Ltd.
5-107-1, Kitaitami, Itami, Hyogo 664-0831, Japan
Phone : (81)-72-767-7517
Fax : (81)-72-767-7518
URL : http://www.sanyu-chem.co.jp
E-mail : support@sanyu-chem.co.jp

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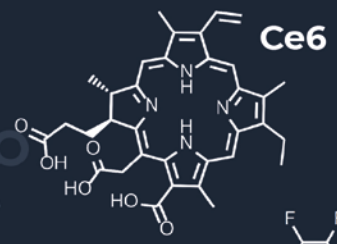
Since 1975, Frontier has been a trusted provider of porphyrin materials for researchers and commercial users. Our team of chemists specialize in synthesizing unique porphyrins and modifying naturally occurring ones. Frontier excels in the production of custom porphyrins for research, therapeutic, and material science applications.

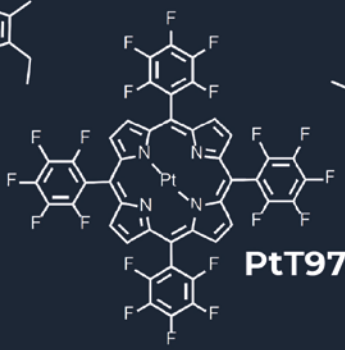
While our catalog features regularly produced porphyrins, we also offer *thousands* of customizable options. If you can't find the specific compound you're seeking or are looking to improve solubilities, photophysical properties, and activities, reach out to us – **we'll synthesize it just for you!**

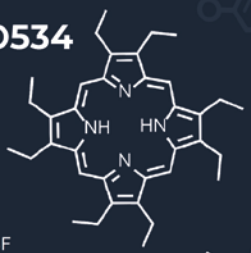
Porphyrin Applications Include...

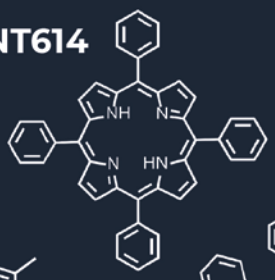
- **Biochemistry:** Porphyrins are vital components in biomolecules like hemoglobin and chlorophyll.
- **Medicine:** Porphyrins and their derivatives find applications in diagnostics and therapy. For instance, they act as photosensitizers in photodynamic therapy to target cancer cells.
- **Catalysis:** Porphyrins serve as catalysts in various chemical reactions by binding to metal ions.
- **Materials Science:** Porphyrins act as building blocks for synthesizing materials, including metal-organic frameworks (MOFs) with potential uses in gas storage, catalysis, and drug delivery.
- **Electronics:** Porphyrins possess electronic properties that benefit electronic devices, such as solar cells and sensors.
- **Sensors:** Porphyrins function as components in oxygen sensors and ion-selective sensors. They're also valuable for detecting environmental pollutants.

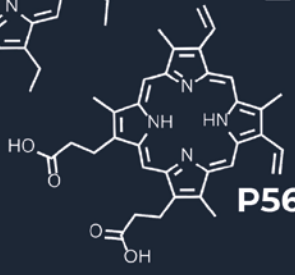
EXAMPLE PORPHYRIN PRODUCTS

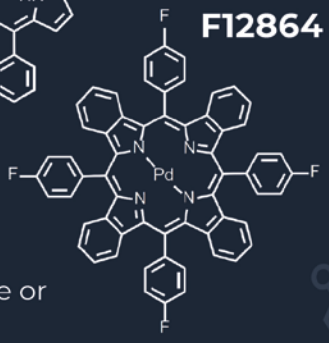












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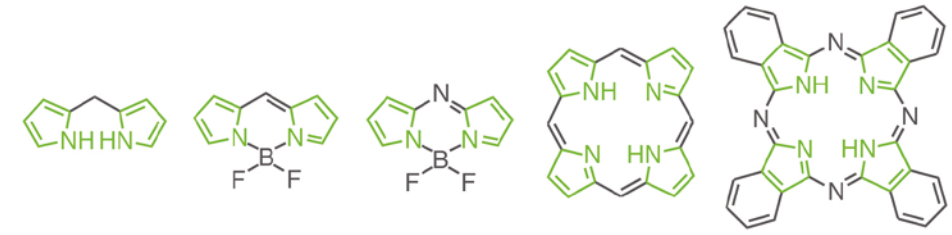
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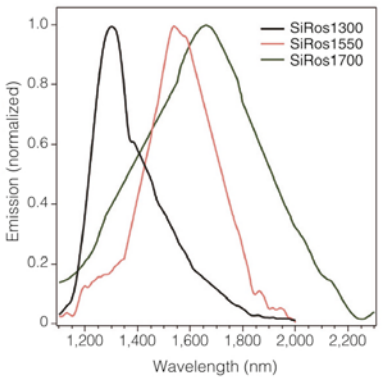
HORIBA

Analytical Solution for Photochemistry

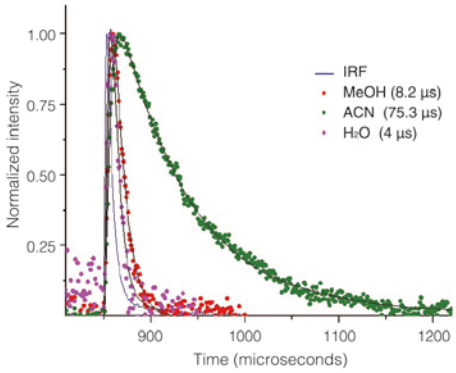
NIR Emission Spectra and Decays



Spectrofluorometer
Fluorolog-QM



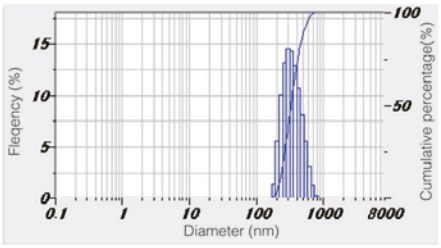
NIR emission spectra of organic dyes

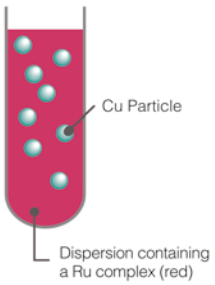


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- High signal-to-noise (S/N) ratio and high wavelength resolution
- Wide emission wavelength range: 190–5500 nm
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  (e.g., fluorescence lifetime, phosphorescence, fluorescence quantum yield, polarization, and temperature control)

Complex Particle Analysis





* This measurement was conducted by the Maeda Laboratory, Tokyo Institute of Technology.

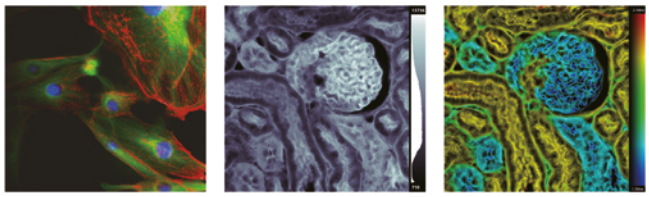
**Measurement of copper colloidal particles
in a dispersion containing a ruthenium complex**



Nano Particle Analyzer
nanoPartica SZ-100V2 Series

- Supported particle size : 0.3 nm - 10 µm
- Zeta potential evaluation also available

Fluorescence Lifetime Imaging Microscopy



**BPAE cells
(Intensity images)**

Mouse kidney
FL intensity **FL lifetime**



Fluorescence Lifetime
Imaging Platform
InverTau



Video Rate
FLIM Camera
FLIMera

- Supports fluorescence lifetimes down to 50 ps
- Real-time display at up to 6 fps
- Connects to the C-mount of an inverted microscope
- Automatic optical system configuration

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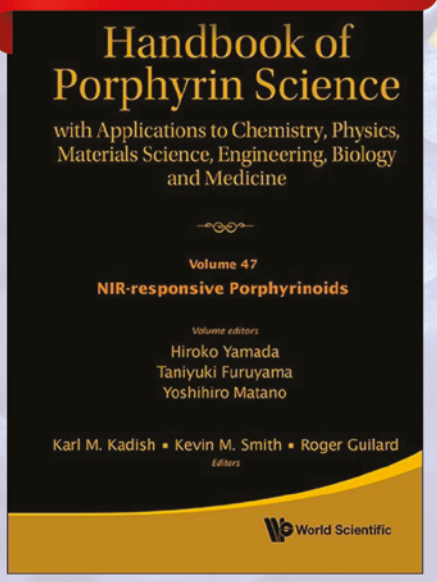
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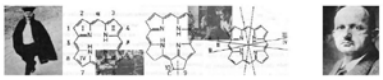
Oral Presentations

MONDAY AM

Monday, 29 June - *Morning*

Award Lecture

Floor 1 : Terrsa Hall



09:30 to 10:30

***Hans Fischer Career Award** for Lifetime Achievements in the field of Porphyrin Chemistry Lecture*

Introduced by Karl M. Kadish

Francis D'Souza *(University of North Texas, Denton, USA)*

Bio-inspired Supramolecular Electron and Energy Transfer: Design Perceptions for Producing High-Potential, Long-Lived Charge Separated States

10:30 to 11:00

Coffee Break

5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall



Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres

11:00 to 11:40 Invited Lecture

Takuzo Aida *(The University of Tokyo, Tokyo, Japan)*

Supramolecular and Materials Sciences with Porphyrins and Phthalocyanines

11:40 to 12:00 Invited Lecture

Ángela Sastre Santos (Universidad Miguel Hernández, Elche, Spain), Lydia Ferrer, Adrián Hernández, Desiré Molina, Javier Ortiz, Jose Garcés-Garcés, Jorge Follana-Berná, Fernando Fernández-Lázaro

Phthalocyanine-Based Molecular Materials: from Symmetry Breaking to Hole Transporting Agents

12:00 to 12:20 Invited Lecture

Janarthanan Jayawickramarajah *(Southern Methodist Univ. Dallas, USA)*, Soumen Pradhan, Aunindya Jyoti

Augmenting DNA Nanotechnology using Synthetic Macrocycles

12:20 to 12:40 Invited Lecture

Yulia G. Gorbunova *(Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moscow, Russia)*, Dmitry A. Bunin, Alexander G. Martynov, Aslan Yu. Tsivadze

Self-Assembling of Cationic Phthalocyanines: from Type II to Type I Photodynamic Therapy

12:40 to 13:00 Invited Lecture

Tomás Torres *(Autonoma University of Madrid, Madrid, Spain)*, Jorge Labella, Elisa López-Serrano, Marta Gómez-Gómez, Juan Laforga-Martín, Jorge Labrador-Santiago, Daniel Holgado

Subphthalocyanines: Nonplanar Aromatic Chiral Porphyrinoids

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18. Pyrrole-based π-systems

Floor 3 : Large Conference Room C

Chaired by Hiromitsu Maeda & Jean Weiss

11:00 to 11:20 Invited Lecture

Stephane Campidelli *(CEA Paris-Saclay, Gif sur Yvette, France)*, Joffrey Pijeat, Karl-Heinz Ernst, Milosł Baljozovicł

Synthesis of Planar and Curved π-Extended Anthracenyl Porphyrins by On-Surface Cyclodehydrogenation

11:20 to 11:40 Invited Lecture

Ryohei Yamakado *(Yamagata University, Yonezawa, Japan)*

Mild Construction of Carbonylated Indazole Frameworks for Functional Molecular Design

11:40 to 12:00 Invited Lecture

Hiroki Horita *(Ritsumeikan University, Kusatsu, Japan)*, Hiroki Okano, Yota Kawai, Hiromitsu Maeda

Pyrrole-based anion-responsive macrocycles

12:00 to 12:20 Invited Lecture

Tatsuki Morimoto *(Tokyo University of Technology, Tokyo, Japan)*

Anion-Accelerated Photocatalytic Reduction of Carbon Dioxide Using Pyrrole-Based Photosensitizers

12:20 to 12:40 Invited Lecture

Toshikazu Ono *(Graduate School of Engineering, Kyushu University, Fukuoka, Japan)*

Al(III)-based Dinuclear Triple-Stranded Helicates for Diverse Photofunctions

28. Activatable probes for cancer imaging and therapy

Floor 2 : Medium Conference Room

Chaired by Chaired by Yasuteru Urano & Gang Zheng

11:00 to 11:20 Invited Lecture

Andrew Beharry *(University of Toronto Mississauga, Mississauga, Canada)*, Ivonne Rebeca Lopez-Miranda

Photoactivatable ß-Lapachone's for Targeted Cancer Therapy

11:20 to 11:40 Invited Lecture

Wei Deng *(University of Technology Sydney, Ultimo, Australia)*, Rui Sang

Radiation-activated photodynamic therapy for rectal cancer treatment

11:40 to 12:00 Invited Lecture

Cristina Kurachi *(São Carlos Institute of Physics/University of São Paulo, São Carlos, Brazil)*, Leticia Martinelli, Layla Pires, Gang Zheng, Brian Wilson

Photothermal therapy with Nano-dICG and the role of immune response at murine melanoma model

...continued after lunch

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34. Heme proteins and synthetic analogues

Floor 3 : Conference Room 2

Chaired by Chaired by John Dawson & Takashi Hayashi

11:00 to 11:20 Invited Lecture

David Goldberg *(Johns Hopkins University, Baltimore, USA)*

Reactivity of High-Valent Iron Porphyrinoid Complexes

11:20 to 11:40 Invited Lecture

Yuma Morimoto *(Institute of Science Tokyo, Tokyo, Japan)*

Modulation of Hydrogen Abstraction Reactivity of a Compound I Model Complex by Axial Ligand π-Donation

11:40 to 12:00 Invited Lecture

Gayan Wijeratne *(The University of Alabama, Tuscaloosa, USA)*, Shanuk Rajapakse, Dhilanka Udukalage, Steven Zheng

Modeling Heme Peroxo Chemistries that Drive Biologically and Synthetically Crucial Transformations

12:00 to 12:20 Invited Lecture

Qiyue Mao *(Doshisha University, Kyoto-fu , Japan)*, Hiroaki Kitagishi

A fire toxic gases injectable antidote composed of synthetic porphyrins

12:20 to 12:40 Invited Lecture

Rudi Fasan *(The University of Texas at Dallas, Richardson, USA)*, Satyajit Roy, Yining Wang, Mary Siriboe, Alistair Sterling, Yong Zhang

Stereoselective carbene transfer reactions with pyridotriazoles catalyzed by engineered hemoproteins

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Monday, 29 June - *Afternoon*

1. Emergence of novel fused and strained porphyrinoids: Synthesis and structures

Floor 2 : Medium Conference Room

Chaired by Chaired by Yasuhide Inokuma, Miłosz Pawlicki & Jeyaraman Sankar

16:30 to 16:50 Invited Lecture

Takayuki Tanaka *(Kyoto University, Kyoto, Japan)*, Yoh Kumagai, Yusuke Matsuo, Shu Seki

Aza[n]circulenes: Novel Pyrrole-fused Polycycles

16:50 to 17:10 Invited Lecture

Sung Kuk Kim *(Gyeongsang National Univeristy, Jinju-si, Korea)*

Calixpyrrole-Based Ion Pair Receptors for the Extraction of Lithium and Sodium Salts

17:10 to 17:30 Invited Lecture

Shingo Ito *(Nanyang Technological University, Singapore, Singapore)*

Azananographenes with Heptagonal or Octagonal Rings

17:30 to 17:50 Invited Lecture

Ewa Pacholska-Dudziak *(Faculty of Chemistry, University of Wroclaw, Wroclaw, Poland)*, Paulina Krzyszowska, Emilia Ganczar

Porphyrin—ruthenium cluster hybrids

17:50 to 18:10 Invited Lecture

Masaaki Suzuki *(Graduate School of Natural Science and Technology, Shimane University, Matsue, Japan)*, Yuzuki Tashiro

Synthesis of *meso*-Spiroadamantyl-Fused Calix[4]pyrroles and Derivatization of Calix[4] Pyrroles to Calix[4]phyrins

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5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall

FRONTIER SPECIALTY CHEMICALS

Chaired by Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres

14:00 to 14:20 Invited Lecture

Hiroyuki Furuta *(Deaprtment of Chemistry, College of Sciences, Shanghai University, Shanghai, China)*

Electronic and magnetic interactions between N-confused porphyrin dimers

14:20 to 14:40 Invited Lecture

Mine Ince *(Tarsus University, Mersin, Turkey)*, Perihan Kübra Demircioglu, Murat Ebic, Sifa Dogan, Seckin Akin

Multifunctional Phthalocyanine-Based Hole Transport and Interfacial Passivation Materials for Perovskite Solar Cells

14:40 to 15:00 Invited Lecture

Jorge Labella *(Kyoto University, Kyoto, Japan)*, Marta Gómez-Gómez, Tomás Torres

Bowl-to-bowl inversion in Subphthalocyanines

15:00 to 15:20 Invited Lecture

Holger Helten *(Julius-Maximilians-Universität Würzburg, Institute of Inorganic Chemistry and Institute for Sustainable Chemistry & Catalysis with Boron (ICB), Würzburg, Germany)*

Boron-Doped Porphyrinoids: Combining Lewis Acidity with Redox-Switchable Aromaticity

15:20 to 15:40 Invited Lecture

Muthumuni Managa *(University of South Africa (UNISA), Florida, South Africa)*, Mbalenhle K. Nhlabathi-Chidi, Knowledge S Ndlovu, Malomane Nonkululeko

Photodynamic activity of novel porphyrin conjugates against bacteria in water

15:40 to 16:00 Invited Lecture

Umit Isci *(Marmara University, Istanbul, Turkey)*

N-bridged dimeric porphyrinoids

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Roberto Paolesse *(University of Rome Tor Vergata, Rome, Italy)*, Giuseppe Pomarico, Martina Marsotto, Sara Nardis, Francesco Pizzoli, Frank R. Fronczek, Kevin M. Smith

[beta]-Alkyl-oxocorroles: novel members of the corrinoid family

16:50 to 17:10 Invited Lecture

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

Development of Novel Photosensitizers for Inducing Immunogenic Cell Death in Photodynamic Therapy

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17:10 to 17:30 Invited Lecture

Sergiu Gorun *(Seton Hall University, South Orange, USA)*, Marius Pelmus, Alexander Fadeev

Functionalized and Non-functionalized Fluorophthalocyanines: Electronic and Symmetry Effects on Reactivity and Surface Anchoring

17:30 to 17:50 Invited Lecture

Athanassios G. Coutsolelos *(Department of Chemistry, University of Crete, Heraklion, Greece)*, Emmanuel Stratakis

The pigments of life: A continuous source of inspiration for new materials and applications

17:50 to 18:10 Invited Lecture

David Sánchez-García *(IQS-URL, Barcelona, Spain)*, Iris Pontón, Sandra Núñez, Cristina Díaz-Perlas, Benjamí Oller-Salvia, Carlos Semino

CD47 peptide-albumin cloaked *meso*porous silica nanoparticles for enhanced macrophage evasion and synergistic chemo-photodynamic therapy

18:10 to 18:30 Invited Lecture

Gloria Zanotti *(Istituto di Struttura della Materia (ISM), Consiglio Nazionale delle Ricerche (CNR), Montelibretti (Rm), Italy)*

Greener Phthalocyanines: From Sustainable Synthetic Design to Functional Interfaces and Devices

8. Exotic porphyrins and novel heteroaromatic macrocycles

Floor 3 : Large Conference Room A + B

Chaired by Chaired by Tomohiro Higashino, Pradeepta Panda & Hong Wang

14:00 to 14:20 Invited Lecture

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

Converting porphyrins into exotic porphyrinoids

14:20 to 14:40

Karolina Hurej *(University of Wroclaw, Wroclaw, Poland)*, Paulina Krzyszowska, Michal J. Bialek, Lechoslaw Latos-Grazynski

The unusual chemistry of pyriporphyrins - from controlled ring inversion to pyridine ring contraction

14:40 to 15:00 Invited Lecture

Jonathan Sessler *(The University of Texas at Austin, Austin, USA)*

Proton-coupled Aromaticity Switching

15:00 to 15:20 Invited Lecture

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

Functional applications of triazole-bearing porphyrin derivatives

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15:20 to 15:40 Invited Lecture

Norbert Jux *(Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany)*, Christoph Oleszak

Fusing porphyrins to PAHs

15:40 to 16:00 Invited Lecture

John Mack *(Tebello Nyokong Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa)*, Rodah Soy, Gugu Kubheka, Nthabeleng Molupe, Godfred Sebiawu, Mahlatse Ledwaba, Temlandvo Magwaza, Kaisano Tauyakhale, Vicky Laure Kembou, Pertunia Macigane, Zine Gwaji, Liyema Makeleni, Shakhola Sekeleme, Nolwazi Zitha, Tebello Nyokong

Meso-group Functionalization and Nanoparticle Conjugation of Porphyrinoid Singlet Oxygen Photosensitizer Dyes for Biomedical Applications

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Miłosz Pawlicki *(Jagiellonian University, Kraków, Poland)*

π-Delocalisation in 2D and 3D Conjugated Skeletons

16:50 to 17:10 Invited Lecture

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

Synthesis of π-Extended Porphyrins and Their Applications in Catalysis, Nonlinear Optics, Solar Cells and Sensing

17:10 to 17:30 Invited Lecture

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

Self-assembled Porphyrins for Advanced Applications

17:30 to 17:50 Invited Lecture

Masayoshi Takase *(Ehime University, Matsuyama, Japan)*

π-Dimer of an Antiaromatic HomoHPHAC Monocation

17:50 to 18:10 Invited Lecture

Charles Devillers *(ICMUB, Université Bourgogne Europe, Dijon, France)*, Nesrine Amiri, Amelle Mankou-Makaya, Héléne Cattey

Unusual ß-Bromination of the *meso*-Free 2,7,12,17-Tetra-*tert*-butylporphyrin. Thiopyridinyl Functionalization of the bis-β-Brominated porphyrin for the synthesis of C_{meso}-N Fused Porphyrins

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15. Porphyrinoids at interfaces

Floor 3 : Large Conference Room C

Chaired by Chaired by Wilhelm Auwärter, David Écija & Wolfgang Schöfberger

16:30 to 16:50 Invited Lecture

Michael Gottfried *(University of Marburg, Marburg, Germany)*

On-Surface Chemistry of Porphyrins, Corroles, and Phthalocyanines

16:50 to 17:10 Invited Lecture

Shigeki Kawai *(National Institute for Materials Science, Tsukuba, Japan)*

On-Surface Syntheses of Extended Porphyrins via Cyclodehydrogenation and Homocoupling of Trifluoromethyl groups

17:10 to 17:30 Invited Lecture

José Ignacio Urgel *(IMDEA Nanoscience, Madrid, Spain)*

On-Surface Synthesis of Carbahemiporphyrazine-Based Polymers

17:30 to 17:50 Invited Lecture

David Ecija *(IMDEA Nanociencia, Madrid, Spain)*

Coordinative Self-assembly of π-electron magnetic Porphyrins

17:50 to 18:10

Aurelio Gallardo *(IMDEA Nanociencia, Madrid, Spain)*

Porphyrin-based Nanostructures characterized by means of computational simulations.

18:10 to 18:20 Invited Lecture

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

On-Surface Reactions for Chain-Like Porphyrin Architectures

18:20 to 18:30

Philani Mashazi *(Rhodes University, Makhanda, South Africa)*, Teboho Mpakanyane, Lunathi Ncwane, Tebello Nyokong

Nanomaterial-porphyrinoid composites as excellent electrochemical sensors

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18. Pyrrole-based π-systems

Floor 3 : Large Conference Room C

Chaired by Chaired by Hiromitsu Maeda & Jean Weiss

14:00 to 14:20 Invited Lecture

Olivier Siri *(Aix-Marseille University, Marseille, France)*

Dipyrromethene as ancillary ligand in coordination chemistry

14:20 to 14:40 Invited Lecture

Hideaki Takano *(Nagoya University, Nagoya, Japan)*

Synthesis and Properties of [3]CycloBODIPY: A Highly Strained Pyrrole-Based Macrocyclic π-System

14:40 to 15:00 Invited Lecture

Eri Sakuda *(Nagasaki University, Nagasaki, Japan)*

Towards Near-Infrared Luminescence via Charge-Transfer Design in Complexes

15:00 to 15:20 Invited Lecture

Jennifer Wytko *(Institut de Chimie de Strasbourg, Strasbourg, France)*, Jean Weiss, Léa Depret

Multi-metallic complexes and assemblies built from a strapped-porphyrin

15:20 to 15:40 Invited Lecture

Tomoya Ishizuka *(Department of Chemistry, Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan)*, Yuma Obata, Risa Nishida, Takahiko Kojima

Proton-Coupled Electron-Transfer Reduction of a Quadruply-Fused Porphyrin Derivative Possessing Imino-Nitrogens at the Periphery

15:40 to 16:00 Invited Lecture

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

Early transition-metal and f-block phthalocyanines: From colour tuning to catalysis

16:00 to 16:30

Coffee Break

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19. Artificial photosynthetic systems

Floor 3 : Conference Room D

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

14:00 to 14:20 Invited Lecture

Fernando Fernández-Lázaro *(Universidad Miguel Hernández de Elche, Elche, Spain)*, Jorge Follana-Berná, Nathalie Zink-Lorre, Ángela Sastre-Santos, Andrew W. Dawson, Francis D'Souza

Symmetry-Breaking Charge Separation Processes in Phthalocyanine-Based Systems

14:20 to 14:40 Invited Lecture

Luis Martin-Gomis *(Universidad MIguel Hernández, Elche, Spain)*, Andrew W. Dawson, Víctor Sobrino-Bastán, Francis D'Souza, Ángela Sastre-Santos

Excited charge separation in silicon(IV) phthalocyanine with axially bound C60 via azobenzene spacers

14:40 to 15:00 Invited Lecture

Christine Paul-Roth *(INSA de Rennes ISCR, Rennes, France)*, Frédéric Paul, Olivier Mongin

New Fluorescent Porphyrins with Fluorenyl-containing Arms Designed for Optics

15:00 to 15:20 Invited Lecture

Val Vullev *(Department of Bioengineering, University of California, Riverside, Riverside, USA)*

What Dipoles Have to Do with Anything?

15:20 to 15:40

Constantinos Varotsis *(Department of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus)*, Charalambos Tselios, Charalambos Andreou, Vasiliki Valianti, Eftychia Pinakoulaki

Thermal Dissipation of Absorbed Light in a Photo-Induced Enzymatic Reaction in the Cells of Phaeodactylum tricornutum via a trans-cis Isomerization in the Xanthophyll Cycle

16:00 to 16:30

Coffee Break

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26. Catalytic activation of CO_2 : From fuels to complex molecules

Floor 2 : Seminar Rooms 1 + 2

Chaired by Chaired by Mio Kondo, Shigeyuki Masaoka & Marc Robert

14:00 to 14:20 Invited Lecture

Kara Bren *(University of Rochester, Rochester, USA)*, Karishma Ramesh, Alison Salamatian, Maria Lizarazo, Linda Leone, Angela Lombardi

Cobalt Cytochrome Catalysts for CO_2 Conversion

14:20 to 14:40 Invited Lecture

Kento Kosugi *(Institute of Science, Tokyo, Meguro, Japan)*

Construction of Highly Efficient Molecular Catalytic Systems for CO_2 Reduction by Controlling Reaction Fields

14:40 to 15:00 Invited Lecture

Eva Nichols *(University of British Columbia, Vancouver, Canada)*

Dialing In Reactivity and Selectivity of CO_2 Reduction through Second-Sphere Design

15:00 to 15:20 Invited Lecture

Hitoshi Izu *(Institute for Chemical Research, Kyoto University, Uji, Japan)*, Yuto Matsuoka, Kodai Yamamoto, W. M. C. Sameera, Kazuki Tanifuji, Yasuhiro Ohki

Metal-Sulfur Cluster Catalysts for the Direct Conversion of CO_2 into CH_4

15:20 to 15:40 Invited Lecture

Naonari Sakamoto *(Toyota Central R&D Labs., Inc., Nagakute, Japan)*, Keita Sekizawa, Soichi Shirai, Takamasa Nonaka, Takeo Arai, Shunsuke Sato, Takeshi Morikawa

Synthesis of C_{3+} products via the electrochemical CO_2 reduction using dinuclear Cu(I) molecular catalysts

15:40 to 16:00 Invited Lecture

Cyrille Costentin *(Université Grenoble Alpes, Grenoble, France)*

Self-modulation and Self-protection Mechanisms in Molecular Catalysis of Electrochemical Reactions.

16:00 to 16:30 Coffee Break

16:30 to 16:50 Invited Lecture

Junhyeok Seo *(Chemistry/Gwangju Institute Of Science and Technology (GIST), Gwangju, Korea)*

Contrasting CO_2 Activation at Low- and High-Valent Metal Centers

16:50 to 17:10 Invited Lecture

Jieun Jung *(Nagoya University, Nagoya, Japan)*

Catalytic activation of CO_2 via photonic and molecular design

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17:10 to 17:30 Invited Lecture

Charles McCrory *(Department of Chemistry, University of Michigan, Ann Arbor, USA)*

CO_2 Reduction by Cobalt Phthalocyanine: Comparing Aqueous-Phase Batch Reactors and Gas-Fed Flow Electrolyzers

17:30 to 17:50 Invited Lecture

Takashi Nakazono *(Osaka Metropolitan University, Osaka, Japan)*

Catalytic Activity of a Dinuclear Iron Complex Bearing a Doubly N-Confused Hexaphyrin toward Photocatalytic CO_2 Reduction and Water Oxidation

17:50 to 18:10 Invited Lecture

Amanda Morris *(Virginia Tech, Blacksburg, USA)*

Mechanistic Investigations of Carbon Dioxide Reduction by Porphynic MOFs

28. Activatable probes for cancer imaging and therapy

Floor 2 : Medium Conference Room

Chaired by Chaired by Yasuteru Urano & Gang Zheng

14:00 to 14:20 Invited Lecture

Ali Makky *(Université Paris-Saclay, CNRS, Institut Galien Paris-Saclay, Orsay, France)*, Khatia Merabishvili, Isokjon Pozilov, Jana Alhoussein, Christophe Regeard

Rational Design of Light-Induced Disruptive Porphysomes for Improved Photodynamic Therapy Applications

14:20 to 14:40 Invited Lecture

Yasuteru Urano *(The University of Tokyo, Tokyo, Japan)*

Development of Novel Small Molecule-based Theranostics Technologies for Cancer

14:40 to 15:00 Invited Lecture

Jan van Hest *(Eindhoven University of Technology, Eindhoven, Netherlands)*, Shukun Li, Jingxin Shao, Yingtong Luo, Yudong Li, Hanglong Wu, Shoupeng Cao

Topological Control in Polymersome-Based Nanomedicine

15:00 to 15:20 Invited Lecture

Marc Vendrell *(University of Edinburgh, Edinburgh, United Kingdom)*

Fluorescent probes for translational bioimaging

15:20 to 15:40 Invited Lecture

Juyoung Yoon *(Chemistry and Nanoscience/Ewha Womans University, Seoul, Korea)*

Recent Progress on Fluorescent Imaging Probes and Phototherapy

15:40 to 16:00 Invited Lecture

Gang Zheng *(University of Toronto and Princess Margaret Cancer Centre, Toronto, Canada)*

Porphyrin nanomedicine: from activatable photosensitizers to radiopharmaceuticals

16:00 to 16:30 Coffee Break

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34. Heme proteins and synthetic analogues

Floor 3 : Conference Room 2

Chaired by Chaired by John Dawson & Takashi Hayashi

14:00 to 14:20 Invited Lecture

Osami Shoji *(Nagoya University, Nagoya, Japan)*

Probing and Expanding the Catalytic Scope of Cytochrome P450BM3 for Gaseous Alkane Hydroxylation through Decoy Molecule Strategies

14:20 to 14:40 Invited Lecture

Emily Weinert *(Dept. of Biochemistry & Molecular Biology, Penn State University, University Park, USA)*

Mechanisms of ligand-dependent activation of bacterial globin coupled sensors

14:40 to 15:00 Invited Lecture

Shun Hirota *(Nara Institute of Science and Technology, Ikoma, Japan)*, Cheng Xie, Takahiro Sakai, Hongxu Yang, Tsuyoshi Mashima, Kassandra Boshae, Bruce Bowler, Hideaki Ogata

Precursor State of 3D Domain Swapping in the Folding Process of Cytochrome c

15:00 to 15:20 Invited Lecture

Petra Hellwig *(University of Strasbourg, CNRS, Strasbourg, France)*, Raaif Siddeeque, Daniel Hatlem, Hartmut Michel, Frédéric Melin

Role of the CuB Center in the Formation and Stabilization of the F-State in Cytochrome c Oxidase from Paracoccus denitrificans

15:20 to 15:40 Invited Lecture

Denis Rousseau *(Department of Biochemistry/Albert Einstein College of Medicine, Bronx, USA)*, Izumi Ishigami, Syun-Ru Yeh

Redox Gating of Proton Translocation in Cytochrome c Oxidase

15:40 to 16:00 Invited Lecture

Anabella Ivancich *(Centre National de la Recherche Scientifique (CNRS), Marseille, France)*

De novo heme catalysts: [alpha]-helical coiled-coils with unprecedented heme&Trp redox cofactors for bioinspired catalysis featuring [Fe(IV)=O Por$^{\bullet+}$] and [Fe(IV)=O Trp$^{\bullet}$] catalytic intermediates

16:00 to 16:30

Coffee Break

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35. Catalysis in natural and biosynthetic heme proteins

Floor 3 : Conference Room 2

Chaired by Anabella Ivancich, Osami Shoji & Giulietta Smulevich

16:30 to 16:50 Invited Lecture

Yi Lu *(The University of Texas at Austin, Austin, USA)*, Yiwei Liu, Aaron Ledray, Barshali Ghosh

Designing biosynthetic models of heme-copper enzymes to understand oxidase and sulfite reductase catalysis

16:50 to 17:10 Invited Lecture

Kenneth Karlin *(Chemistry/Johns Hopkins University, Baltimore, USA)*

Heme-M (M = Cu or non-heme Fe) Modeling: Synthetic Constructs and O_2 or NO Reactivity

17:10 to 17:30 Invited Lecture

Nicolai Lehnert *(University of Michigan, Ann Arbor, USA)*, Daniel Castella, Elizabeth Manickas

Stabilization and Characterization of a Heme-HNO Adduct in a Model Complex for Cytochrome P450nor

17:30 to 17:50 Invited Lecture

Stephen Bell *(Adelaide University, Adelaide, Australia)*, Matthew Podgorski, Joel Lee, Eva Hayball, Alecia Gee, Tuhin Das, Oghenesivwe Osiebe, Maya Doyle, Gashaw Dagnaw

The Structure and Mechanism of Natural and Engineered Heme Oxygenase Biocatalyts

17:50 to 18:10 Invited Lecture

Michael T. Green *(University of California, Irvine, USA)*

P450 Compound I: Is it really a blowtorch?

18:10 to 18:30 Invited Lecture

Samuel Mann *(University of California, Riverside, Riverside, USA)*, Jithin Thomas, Sudha Yadav, Paul Oyala, Veronica Carta, David Goldberg

A High Valent Mn(V)-Nitrido Species within a De Novo Designed Protein

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41. Theory and spectroscopy

Floor 3 : Conference Room D

Chaired by Nagao Kobayashi & Martin Stillman

16:30 to 16:50 Invited Lecture

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

First principles theory of phthalocyanines and corroles: from molecules to crystals

16:50 to 17:10 Invited Lecture

Anas Santria *(The University of Osaka, Toyonaka, Japan)*, Tsuyoshi Ashida, Naoto Ishikawa

Extending Photoinduced Magnetism to Light Lanthanide through Porphyrin Excited States

17:10 to 17:30 Invited Lecture

Sergei Vinogradov *(University of Pennsylvania, Philadelphia, USA)*

Zn Dipyrrins: Exciton Coupling, Excitation Energy Dynamics and Applications in Biosensing

17:30 to 17:50 Invited Lecture

Alexander Efimov *(Tampere University, CAM/ENS, Tampere, Finland)*, Nagao Kobayashi, Atsuya Muranaka, Aleksandr Penni, Viacheslav Golovanov, Riikka Rimmistö, Sebastian Pätsch, Nikita Durandin

The windmill, the dragon and the frog: isomerically pure α-aryl-substituted phthalocyanines, their spectral features and functions

17:50 to 18:10 Invited Lecture

Hirofumi Ueda *(Department of Pharmaceutical Sciences, Tohoku University, Sendai, Japan)*, Kei Yoshida, Mirai Hayashi, Nagao Kobayashi, Hidetoshi Tokuyama

Development of $FePc(CO_2H)_8$-Catalyzed Oxidative Chemical Modification of Glycine Derivatives

18:10 to 18:30 Invited Lecture

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

Quantifying the electronic properties of tetrapyrroles: Predicting spectral properties from the electronic structures

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Tuesday, 30 June - *Morning*

Award Lecture

Floor 1 : Terrsa Hall

09:00 to 10:00

***Eraldo Antonini Career Award** for Lifetime Achievements in the field of Heme Proteins Lecture*

Introduced by John H. Dawson

Takashi Hayashi *(The University of Osaka, Graduate School of Engineering, Suita, Japan)*

Modification of Hemoproteins for Creating New Biocatalysts and Bionanomaterials

10:00 to 10:30

Coffee Break

5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall

Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres

10:30 to 10:50 Invited Lecture

Dirk Guldi *(Profile Center Solar Department of Chemistry and Pharmacy Interdisciplinary Center for Molecular Materials (ICMM), Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Erlangen, Germany)*

Exciton Migration in Porphrinic Systems

10:50 to 11:10 Invited Lecture

Dennis Ng *(Dept of Chemistry, The Chinese University of Hong Kong, Hong Kong, China)*, Ka-Hin Chan, Dick Yan Tam

Carrying Photosensitizers and Antisense Oligonucleotides with a G-Quadruplex Platform for Synergistic Photodynamic and Antisense Therapy

11:10 to 11:30 Invited Lecture

Anna Sinelshchikova *(BCMaterials, Basque Center for Materials, Applications and Nanostructures, Leioa, Spain)*, Roberto Fernández de Luis, Stefan Wuttke, Jacopo Andreo

One-pot Porphyrin Metal-Organic Frameworks

11:30 to 11:50

Nuno M. M. Moura *(University of Aveiro, Aveiro, Portugal)*, Filipe M. P. Morais, Inês Chaves, Cátia Vieira, M. Graça P. M. S. Neves, Adelaide Almeida, M. Amparo F. Faustino

Photodynamic efficacy of cationic porphyrin-triphenylphosphonium conjugates

11:50 to 12:10

Jong Seung Park *(Pusan National University, Busan, Korea)*

Efficient Corrosion Protection of Aluminum Alloys Using Metallophthalocyanines for Electrochemical Applications

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12. Aromaticity and antiaromaticity

Floor 3 : Large Conference Room A + B

Chaired by Dongho Kim, Jonathan Sessler & Hiroshi Shinokubo

10:30 to 10:50 Invited Lecture

Atsuhiro Osuka *(Hunan Normal University, Changsha, China)*

Stable Antiaromatic Expanded Porphyrins

10:50 to 11:10 Invited Lecture

Jun-Long Zhang *(Peking University, Beijing, China)*

NIR Lanthanide Phototheranostics

11:30 to 11:50 Invited Lecture

Yongshu Xie *(East China University of Science and Technology, Shanghai, China)*, Qizhao Li, Yanping Huang, Guangxian Su

Porphyinoid monomers and dimers with tunable aromaticity based on the N-confusion approach

...continued after lunch

15. Porphyrinoids at interfaces

Floor 3 : Large Conference Room C

Chaired by Wilhelm Auwärter, David Écija & Wolfgang Schöfberger

10:30 to 10:50 Invited Lecture

Giovanni Bottari *(Universidad Autónoma de Madrid, Madrid, Spain)*, Miguel Martínez García, Sergio Ligos, Tomás Torres, Feifei Xiang, Roman Fasel, David Écija

Tailoring Electronic Properties in π-Extended Porphyrin-based Nanostructures through Bottom-Up Fabrication

10:50 to 11:10 Invited Lecture

Michel Rickhaus *(University of Geneva, Geneva, Switzerland)*

How Bending Porphyrinoids Leads to Extraordinary Order

11:10 to 11:30 Invited Lecture

Anna Roslawska *(Max Planck Institute for Solid State Research, Stuttgart, Germany)*

Optical Properties of Individual Chlorophylls and Phthalocyanines Probed at the Atomic Scale

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11:30 to 11:50 Invited Lecture

Nan Jiang *(Department of Chemistry/University of Illinois Chicago, Chicago, USA)*

Ångström-Scale Insights into On-Surface Porphyrin Chemistry via Tip-Enhanced Raman Spectroscopy

11:50 to 12:10 Invited Lecture

Abner de Siervo *(University of Campinas, Campinas , Brazil)*

On-surface Synthesis of Porphyrin-Based MONs: a Model System for Catalysis and Artificial Spin Lattices

12:10 to 12:30 Invited Lecture

Alex Saywell *(University of Nottingham, Nottingham, United Kingdom)*

On-Surface Synthesis: Extrinsic Catalysis and Molecular Conformation

12:30 to 12:50 Invited Lecture

Jimmy Jiang *(University of Cincinnati, Cincinnati, USA)*

Electrosynthesis of Verdoheme and Biliverdin Derivatives Following Enzymatic Pathways

25. Spin transport and dynamics in molecular and nanoscale systems

Floor 2 : Seminar Rooms 1 + 2

Chaired by Ryan Hadt & Michael Therien

10:30 to 10:50 Invited Lecture

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

Ultrafast Molecular Spin Coherence for Quantum Transduction in Complex Environments

10:50 to 11:10 Invited Lecture

Francesco Tassinari *(University of Modena and Reggio Emilia, Modena, Italy)*, Martina Campi, Valeria Iacomini, Roberto Biagi, Andrea Cornia, Alessio Nicolini

Spin Selective Catalysis with Chiral Metal-Organic Frameworks

11:10 to 11:30 Invited Lecture

Martin Kirk *(The University of New Mexico, Albuquerque, USA)*, David Shultz, Art van der Est

Mechanistic Insight into Photogenerated Spin Polarization of Single and Exchange Coupled Spin Systems

11:30 to 11:50 Invited Lecture

Yossi Paltiel *(Applied physics, The Hebrew University of Jerusalem, Jerusalem, Israel)*

Efficient green energy production using chiral coating

...continued after lunch

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33. Porphyrinoids in photomedicine

Floor 2 : Medium Conference Room

FRONTIER SPECIALTY CHEMICALS

Chaired by Fabienne Dumoulin & Takahiro Nomoto

10:30 to 10:50 Invited Lecture

Takahiro Nomoto *(Graduate School of Arts and Sciences, The University of Tokyo, Tokyo, Japan)*

Polymer-Photosensitizer Conjugates for Tumor-Targeted Photodynamic Therapy

10:50 to 11:10 Invited Lecture

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

Advances in the Development of Topical Phospholipid Carriers for Porphyrinic Photosensitizers

11:10 to 11:30 Invited Lecture

Kei Murata *(RIKEN, Wako, Japan)*, Yuki Saibe, Mayu Uchida, Mizuki Aono, Ryuji Misawa, Yoshiho Ikeuchi, Kazuyuki Ishii

Photorelease of Reactive Carbon Species from Organorhodium Phthalocyanine Complexes

11:30 to 11:50 Invited Lecture

Sinem Tuncel Kostakoglu *(Acibadem Mehmet Ali Aydinlar University, Istanbul, Turkey)*

Enzyme-responsive materials for photodynamic therapy

11:50 to 12:10 Invited Lecture

Hiroaki Horiuchi *(Kyoto Prefectural University, Kyoto, Jordan)*

Development of low pH-activatable photosensitizers for photodynamic therapy and diagnosis

12:10 to 12:30 Invited Lecture

Anna Lewandowska-Andralojc *(Adam Mickiewicz University, Faculty of Chemistry, Poznan, Poland)*, Aleksander Kolman, Blazej Scheibe

Tuning Photosensitizer Performance: Spectroscopic Insights into m-THPC Interactions with Proteins, Micelles, and Graphene-Based Nanomaterials

12:30 to 12:50

Carlos Monteiro *(LAQV-REQUIMTE, Department of Chemistry, University of Aveiro, Aveiro, Portugal)*, Ana Joaquinito, Luca Menilli, Federico Frendo, Giorgia Miolo, Maria Faustino

New Porphyrin Functionalized with Azabicyclic Amidines for PDT Applications

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35. Catalysis in natural and biosynthetic heme proteins

Floor 3 : Conference Room 2

Chaired by Anabella Ivancich, Osami Shoji & Giulietta Smulevich

10:30 to 10:50 Invited Lecture

Nikhil Malvankar *(Yale University, West Haven, USA)*

Imaging & Control of Microbial Metabolism by Targeting Extracellular Electron Transfer via Cytochrome Nanowires

10:50 to 11:10 Invited Lecture

Smilja Todorovic *(ITQB-NOVA Universidade Nova de Lisboa, Oeiras, Portugal)*, Célia M. Silveira, Angelique Pothuizen, Marc J. F. Strampraad, Frank Hollmann

Electrocatalysis of Heme Enzymes, beyond substrate sensing / degradation

11:10 to 11:30 Invited Lecture

Piotr Mak *(Saint Louis University, Saint Louis, USA)*

Peptide- and DNA-based heme protein models – spectroscopic insight

11:30 to 11:50 Invited Lecture

Pierre Moenne-Loccoz *(Oregon Health & Science University, Portland, USA)*

Probing active sites outersphere influences in heme and nonheme iron proteins using photolabile exogenous ligand donors at cryogenic temperatures

11:50 to 12:10 Invited Lecture

Federico Sebastiani *(Dept. of Chemistry DICUS - University of Florence, Sesto Fiorentino (FI), Italy)*, Alice Cassiani, Andrea Dali, Thomas Gabler, Maurizio Becucci, Paul Furtmueller, Stefan Hofbauer, Giulietta Smulevich

Iron insertion in bacterial ferrochelatases: active site architecture and iron-sulfur cluster

12:10 to 12:30 Invited Lecture

Syun-Ru Yeh *(Biochemistry, Bronx, USA)*

Molecular Determinants of Selective Inhibition of Human IDO1 and TDO

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Tuesday, 30 June - *Afternoon*

4. Carbaporphyrinoids with N-confusion and fusion

Floor 1 : Terrsa Hall

Chaired by Hiroyuki Furuta & Yongshu Xie

15:00 to 15:20 Invited Lecture

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

Metal Complexes of N-Confused Porphyrins and Their Sustainable Energy Applications

15:20 to 15:40 Invited Lecture

Christopher Ziegler *(University of Akron, Akron, USA)*

Interrogating Electronic Structure in N-Confused Porphyrins

15:40 to 16:00 Invited Lecture

Srinivasan Alagar *(School of Chemical Sciences, Bhubaneswar, India)*, Rampal Vishwakarma, Mainak Das

Meso-Modified Porphyrinoids: Its B(III) and bis-Rh(I) Complexes

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Qizhao Li *(East China University of Science and Technology, Shanghai, China)*, Yongshu Xie

Synthesis and properties of novel confused expanded porphyrinoids

16:50 to 17:10 Invited Lecture

Chuanhu Lei *(Shanghai University, Shanghai, China)*

Rigid Expanded Porphyrinoids: Design, Synthesis, and Properties Study

17:10 to 17:30

Michal Bialek *(Department of Chemistry, University of Wroclaw, Wroclaw, Poland)*, Kinga Szydelko, Wiktoria Bara

Regioselective arylation and coordination cavity magic in carbaporpyrinoids

17:30 to 17:50

Wei-Min Ching *(National Kaohsiung Normal University, Kaohsiung, Taiwan)*, Cheng-Chau Chiu, Chen-Hsiung Hung

Regioselective reduction of N-confused porphyrin: N-Confused Chlorin iron nitrosyl complex

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5. Synthesis and properties of porphyrinoids

Floor 1 : Terrsa Hall

FRONTIER SPECIALTY CHEMICALS

Chaired by Gema de la Torre, Andrew Cammidge & Tomás Torres

14:00 to 14:10

Jiri Demuth *(Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic)*, Radek Machan, Ivan Mocak, Tibor Malinsky, Mona A. El Dahabova, Jakub Holcak, Stefan Bednarik, Miroslav Miletin, Jan Labuta, Veronika Novakova, Petr Zimcik

J-dimers of Tetrapyrazinoporphyrazines

14:10 to 14:20

Runchang Liu *(ATA Law Corporation, Richmond, Canada)*, David Dolphin

Synthesis of Neo-triphyrin(0.1.1)

14:20 to 14:30

Sebastian Pätsch *(Tampere University, Tampere, Finland)*, Aleksandr Penni, Luis A. Gallego-Villada, Dmitry Yu. Murzin, Päivi Mäki-Arvela, Alexander Efimov

Understanding the steric influence in α-substituted metal phthalocyanines on synthesis, structure and reactivity

14:30 to 14:40

Evgeniya Safonova *(Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Marina Polovkova, Anna Ovchenkova, Egor Gorshkov, Roman Akasov, Aslan Tsivadze, Yulia Gorbunova

Water-soluble phosphorus(V) phthalocyanines: From synthesis to biomedical applications

12. Aromaticity and antiaromaticity

Floor 3 : Large Conference Room A + B

Chaired by Dongho Kim, Jonathan Sessler & Hiroshi Shinokubo

14:00 to 14:20 Invited Lecture

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

Azaporphyrinoids Bearing *meso*-N-Substituents: Platforms for Evaluating Antiaromaticity and Aromaticity

14:20 to 14:40 Invited Lecture

Dong-Gyu Cho *(Inha University, Incheon, Korea)*

Exploring the Chemistry of 1,7-Naphthiporphyrin Derivatives through a Molecular Engineering Approach

14:40 to 15:00 Invited Lecture

Henrik Ottosson *(Uppsala University, Uppsala, Sweden)*

From H_3^+ to Porphyrinoids: An Excursion into the Wide Land of Excited State Aromaticity

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15:00 to 15:20 Invited Lecture

Naoyuki Toriumi *(The University of Tokyo, Tokyo, Japan)*, Masanobu Uchiyama

meso-Edited Phthalocyanine Derivatives

15:20 to 15:40

Martin Peeks *(University of New South Wales, Sydney, Australia)*

Manifestations of (anti)aromaticity in porphyrinoids, big and small

16:00 to 16:30 Coffee Break

13. Chiral porphyrinoids and related systems

Floor 3 : Large Conference Room A + B

Chaired by Alessandro D'Urso & Manuela Stefanelli

16:30 to 16:50 Invited Lecture

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

Exploiting porphyrins to induce the antiparallel to parallel transition of RNA G-quadruplex

16:50 to 17:10 Invited Lecture

Giorgia Oliviero *(Department of Molecular Medicine and Medical Biotechnology, University of Naples Federico II, Napoli, Italy)*, Nicola Borbone, Stefano D'Errico, Luca De Stefano, Alessandro D'Urso, Maria Grazia Nolli, Monica Terracciano, Gennaro Piccialli

Porphyrin–Gold Nanoaggregates as Multifunctional Platforms for Photothermal Cancer Therapy

17:10 to 17:30 Invited Lecture

Irina Osadchuk *(Tallinn University of Technology, Department of Chemistry and Biotechnology, Tallinn, Estonia)*, Victor Borovkov

Influence of geometrical factors on ECD spectra of porphyrin-based supramolecules

17:30 to 17:50 Invited Lecture

Sankar Prasad Rath *(Indian Institute of Technology Kanpur, Kanpur, India)*

Modulation of Supramolecular Chirality using 'Nano-size' Trizinc(II)porphyrin Trimers: A Structure-Function Correlation

17:50 to 18:10 Invited Lecture

Manuela Stefanelli *(University of Rome Tor Vergata, Rome, Italy)*, Giuseppe Pomarico, Mariano Venanzi, Roberto Paolesse, Monti Donato

Supramolecular Chirogenesis in Porphyrin-Surfactant Based Heterosystems

18:10 to 18:20

Andrei Kroitor *(Institute of Physical Chemistry & Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Alexander Dmitrienko, Cenna Toullec, Alexander Martynov, Yulia Gorbunova, Alexander Sorokin

Expanding the porphyrinoid toolbox: recent progress in the carbene transfer catalyzed with tetrapyrrolic complexes

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20. MOF and COF

Floor 3 : Large Conference Room C

ERRATUM: CORRECT PLACEMENT

see pages **43** & **44** for presentations an times

23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Floor 2 : Seminar Rooms 1 + 2

Chaired by Gabriel Canard, Charles Devillers & Masatoshi Ishida

16:30 to 16:50 Invited Lecture

Elisa Tomat *(University of Vienna, Wien, Austria)*, Iva Habensus, Lily North, Clayton Curtis, Andrei Astashkin

Tripyrrindione Radicals: Metal Coordination, Redox Chemistry, and anti-Kasha Fluorescence

16:50 to 17:10 Invited Lecture

Ji-Young Shin *(Nagoya University, Nagoya, Japan)*

An Exploration Study of Practical Secondary Organic Batteries with Porphyrinoid Electrodes

17:10 to 17:30

Hirorfumi Yoshikawa *(Kwansei Gakuin University, Sanda, Japan)*

Application of Iron Phthalocyanine Dimers as Cathode-Active Materials for Rechargeable Batteries

17:30 to 17:50 Invited Lecture

Cédric Colomban *(CNRS Aix-Marseille University, Marseille, France)*

Caged Metallocorrole Complexes: getting closure to metalloenzymes' functionalities.

...continued Thursday morning

24. Photocatalysis

Floor 3 : Conference Room D

Chaired by Zeev Gross & Yusuke Kuramochi

14:00 to 14:20 Invited Lecture

Marc Robert *(Sorbonne Université, Paris, France)*

From Innovative Molecular Photocathodes to Photoelectrochemical Cell for Unassisted CO_2 Reduction

14:20 to 14:40 Invited Lecture

Shigeyuki Masaoka *(Division of Applied Chemistry, Graduate School of Engineering, The University of Osaka, Suita, Japan)*

Development of Molecular Catalysts for Photosynthetic Reactions

14:40 to 15:00 Invited Lecture

Ho-Jin Son *(Advanced Materials Chemistry, Korea University, Sejong, Korea)*, Min-Jong Bong, Seung-Hwan Cha, Sangheon Jeong, Chul Hoon Kim

Porphyrin-Centered Photophysics and Electron-Transfer Strategies for Efficient TiO_2-Mediated Carbon Dioxide Reduction

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15:00 to 15:20 Invited Lecture

Kosei Yamauchi *(Kyushu University, Fukuoka, Japan)*

Photocatalytic Energy Conversion with Cobalt-NHC Catalysts

15:20 to 15:40 Invited Lecture

Atif Mahammed *(Technion-Israel Institute of Technology, Haifa, Israel)*, Qiu-Cheng Chen

Metallocorroles as High-Performance Photoredox Catalysts for Decarboxylative Fluorination

15:40 to 16:00 Invited Lecture

Haining Tian *(Physical Chemistry, Uppsala University, Uppsala, Sweden)*

Tuning Charge Transfer in Porphyrins for Photocatalysis

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Taniyuki Furuyama *(Graduate School of Engineering, University of Hyogo, Himeji, Japan)*

Development of Near-Infrared Light-Responsive Phthalocyanine-Based Photocatalysts

16:50 to 17:10 Invited Lecture

Iti Gupta *(Indian Institute of Technology Gandhinagar, Gandhinagar, India)*, Kritika Agarwal, Samrita Sharma

Exploring Photocatalysis with Metal Dipyrrinato Complexes

17:10 to 17:30 Invited Lecture

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

Photochemical reactions in aqueous micellar environment

17:30 to 17:50

Martin Presselt *(Leibniz-Institut of Photonic Technology, Jena, Germany)*, Sarah Jasmin Finkelmeyer, Konrad Hotzel, Charlotte Mankel, Stefan Zechel, Martin D. Hager, Ulrich S. Schubert, Kalina Peneva

Langmuir Monolayers as a Platform for Scalable Two-Dimensional Photocatalytic Membranes

17:50 to 18:10 Invited Lecture

David George Churchill *(KAIST, Yuseong-Gu, Korea)*, Xuan Zhan, Zakir Ullah, Donghyeon Kim

Enabling Dual C–H Chlorination and H_2O_2 Generation with CF_3-containing Phosphorus Corroles

18:10 to 18:30 Invited Lecture

Atsushi Kobayashi *(Tokyo University of Marine Science and Technology, Tokyo, Japan)*, Satoshi Odagiri

Dual-porphyrin-sensitized photocatalyst for efficient charge separation and solar hydrogen production

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25. Spin transport and dynamics in molecular and nanoscale systems

Floor 2 : Seminar Rooms 1 + 2

Chaired by Ryan Hadt & Michael Therien

14:00 to 14:20 Invited Lecture

David Shultz *(North Carolina State University, Raleigh, USA)*, Anil Reddy Marri, Andre Nogueira, Martin Kirk

Exchange Coupling and Spin Relaxation in Ground State Analogs of Ligand-to-Ligand Charge Transfer Excited States

14:20 to 14:30

Fabio Santanni *(Trinity College Dublin, Dublin, Ireland)*, Christian Teutloff, Kseniia Mamaeva, Anja C. Gotzen, Brendan Twamley, A. Louise Bradley, Robert Bittl, Mathias O. Senge

Weak magnetic coupling interactions and spin dynamics in photochromic porphyrin-based quantum logic gates

14:40 to 15:00 Invited Lecture

Michael Therien *(Department of Chemistry, Duke University, Durham, USA)*, Jiaqi Zhu, Elizabeth Shiby, Anu Gupta, Brian P. Bloom, Anisha Mondal, Chih-Hung Ko, Victoria L. Cinnater, Jonas Fransson, Yossi Paltiel, Ron Naaman, David H. Waldeck

Vertically Aligned Chiral Low-Resistance Porphyrin Wires Enable Spin Valves without Ferromagnetic Contacts

15:00 to 15:20 Invited Lecture

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

The Chiral Induced Spin Selectivity- Why it is so special?

16:00 to 16:30

Coffee Break

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33. Porphyrinoids in photomedicine

Floor 2 : Medium Conference Room

FRONTIER SPECIALTY CHEMICALS

Chaired by Fabienne Dumoulin & Takahiro Nomoto

14:00 to 14:20 Invited Lecture

Srivalleesha Mallidi *(Tufts University, Medford, USA)*

Towards Photoacoustic Imaging-Enabled Personalized Photodynamic Therapy: From Molecular Contrast to Real-time Oxygen Mapping

14:20 to 14:40 Invited Lecture

Vincent Sol *(University de Limoges, Limoges, France)*, Luce Janice Nzimbou, Frederique Brégier

Synthesis of New Derivatives of Purpurin Imide with Functional Group for PDT Application.

14:40 to 15:00 Invited Lecture

Makiko Sasaki *(Department of Gastroenterology and Metabolism, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)*, Mamoru Tanaka, Hiromi Kataoka

Cancer Immunity Activation in Photodynamic Therapy Using Talaporfin Sodium

15:00 to 15:20

Nela Malatesti *(Faculty of Biotechnology and Drug Development, Rijeka, Croatia)*, Martina Mušković Lukić, Martin Lončarić, Nikola Basarić, Ivana Ratkaj

Tripyridyl Porphyrin Derivatives and Their Photodynamic Action on Melanoma Cells under Hypoxic Conditions

15:20 to 15:40 Invited Lecture

Riku Kawasaki *(Hiroshima University, Higashi Hiroshima, Japan)*, Takuro Eto, Shoma Takeichi, Naoki Tarutani, Kiyofumi Katagiri, Keita Yamana, Takeshi Nagasaki, Atsushi Ikeda

Photodynamic Therapy Using Chlorin e6-Bearing Pullulan Nanogel as a Nano-Based Photosensitizer

15:40 to 16:00 Invited Lecture

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

Photophysical properties of porphyrin-based Type-I and Type-II photosensitizers

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Yuma Yamada *(Hokkaido University, Sapporo, Japan)*

An Exploratory Approach to Mitochondria-Targeted Photomedicine Using Porphyrinoid-Encapsulated Lipid Nanoparticles

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16:50 to 17:10 Invited Lecture

Magali Gary-Bobo *(IBMM, Castelnau-le-Lez, France)*

Biological Models for Photoactivable Nanoparticles and Photosensitizers Study

17:10 to 17:30 Invited Lecture

Janusz Dabrowski *(Uniwersytet Jagielloński, Kraków, Poland)*

Structure–Property Modulation in Porphyrinoids: A Molecular Roadmap from Anticancer Photodynamic Therapy to Antimicrobial Photodynamic Inactivation

17:30 to 17:50 Invited Lecture

Emiyu Ogawa *(Keio University, Yokohama, Japan)*

Monte Carlo and Rate-Equation Modeling of Interstitial Photodynamic Therapy for Brain and Spinal Tumors

17:50 to 18:10 Invited Lecture

Tomohiro Osaki *(Faculty of Agriculture, Tottori University, Tottori, Japan)*, Shuntaro Tao, Isao Sakata, Kiwamu Takahashi, Takashi Iwasaki, Tetsuya Kadonosono, Takahiro Nomoto

Trial of photodynamic therapy for canine bladder transitional cell carcinomas

18:10 to 18:30

Edith K. Amuhaya *(United States International University - Africa, Nairobi, Kenya)*, Isaiah B. Mwanzia, Margaret W. Murage, Tebello Nyokong

Advances in Photodynamic Materials for Antimicrobial and Environmental Applications

36. Heme sensors, regulations and trafficking

Floor 3 : Conference Room 2

Chaired by Koichiro Ishimori & Emily Weinert

14:00 to 14:20 Invited Lecture

Hitomi Sawai *(Osaka Metropolitan University, Osaka City, Japan)*

The development of a soft X-ray microscope for imaging of heme iron in living cells to understand its dynamics

14:20 to 14:40 Invited Lecture

Ekaterina Pletneva *(Department of Chemistry, Dartmouth College, Hanover, USA)*

Displacement of Methionine Coordination at the Heme Iron in Regulation of Signaling and Redox Pathways

14:40 to 15:00 Invited Lecture

Atsuki Nakagami *(Doshisha University, Kyotanabe, Japan)*, Masahito Kodera, Hiroaki Kitagishi

Nitric Oxide Binding to *meso*-Tetraphenylporphyrin Fe(II/III) Complexes Encapsulated in the Cyclodextrin Nanocavities in Aqueous Solution

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15:00 to 15:20 Invited Lecture

Molly Sutherland *(Department of Biological Sciences/University of Delaware, Newark, USA)*, Alicia Kreiman, Tania Yeasmin

Insights into heme binding and transport in bacterial cytochrome c biogenesis

15:20 to 15:40 Invited Lecture

Rei Tohda *(Graduate School of Science, University of Hyogo, Hyogo , Japan)*, Yukino Tsuji, Norifumi Muraki, Seiki Baba, Hideo Okumura, Yoshiaki Kawano, Takeshi Yokoyama, Takehiko Tosha, Shigetoshi Aono

Molecular mechanisms of heme-based oxygen sensor protein in bacterial chemotaxis

15:40 to 16:00 Invited Lecture

Judith Burstyn *(University of Wisconsin-Madison, Madison, USA)*, Madeleine Roberts, Matthew Dent, Brian Weaver, Christopher Berndsen

Heme-Dependent CO Sensing Transcription Factors: CooA and RcoM

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Tasuku Hirayama *(Gifu Pharmaceutical University, Gifu, Japan)*

Chemical tools for fluorescence imaging of labile heme in living cells and tissues

16:50 to 17:10 Invited Lecture

Jennifer DuBois *(Montana State University, Bozeman, USA)*

A Widespread System for Anaerobically Removing Iron from Heme

17:10 to 17:30 Invited Lecture

Matthew Dent *(Wayne State University, Detroit, USA)*, Nisa Mahmood, Mustafa Alithawi, Jayani Nissanka

Defining heme pocket factors that drive ligand selectivity in the carbon monoxide sensor protein *Px*RcoM-1

17:30 to 17:50 Invited Lecture

Markéta Martínková *(Department of Biochemistry, Faculty of Science, Charles University, Prague 2, Czech Republic)*, Artur Sergunin, Petr Pompach, Jakub Vavra, Dominik Pasek, Toru Shimizu

The structure-function relationship of heme sensor proteins

17:50 to 18:10 Invited Lecture

Tatsuru Masuda *(The University of Tokyo, Tokyo, Japan)*, Mihoko Takenoya, Takayuki Shimizu

Trafficking of Heme as Plastid-Derived Retrograde Signal in Plant Cells

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Wednesday, 1 July - *Morning*

Award Lectures

Floor 1 : Terrsa Hall

World Scientific

09:00 to 09:30

SPP/JPP Young Investigator Award Lecture

Introduced by Hiroshi Imahori

Tomohiro Higashino *(Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Kyoto, Japan)*

Molecular Design Principles of Porphyrinoid-Based Dyes for Efficient Solar Energy Conversion

09:30 to 10:00

SPP/JPP Young Investigator Award Lecture

Introduced by Dongho Kim

Juwon Oh *(Kyoungpook National University, Daegu, Korea)*

Porphyrinoids as a Molecular Platform for Revealing and Understanding Excited-State Aromaticity

10:00 to 10:30

SPP/JPP Young Investigator Award Lecture

Introduced by Shigeyuki Masaoka

Jia-Wei Wang *(Sun Yat-Sen University, Zhuhai, China)*, Fan Ma

Cobalt Porphyrin and Phthalocyanine Catalysts for CO_2 Photoreduction

10:30 to 11:00

Coffee Break

11:00 to 11:30

***Barry Lever Young Investigator Award** in the Field of Physical Inorganic Chemistry Lecture*

Introduced by Viktor Nemykin

Brendon McNicholas *(University of Tennessee, Knoxville, Knoxville, USA)*

Phthalocyanines as Multifunctional Platforms: Fundamental Electronic Structure, Energy Storage, and Electrocatalytic Applications

followed by...

11:30 to 12:00

Group photo *(all participants)*

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Thursday, 2 July - *Morning*

Award Lecture

Floor 1 : Terrsa Hall

09:00 to 10:00

***Linstead Career Award** for Lifetime Achievements in the field of Phthalocyanine Chemistry Lecture*

Introduced by Tomàs Torres

José H. Zagal *(University of Santiago de Chile, Santiago, Chile)*, Laura Scarpetta-Pizo, Wolfgang Schmickler

Bio-inspired Fe porphyrins as the best catalysis of the reduction of O_2 contradict the Sabatier-Principle volcano correlation of activity versus MN4-O_2 binding energy

10:00 to 10:30

Coffee Break

2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications

Floor 1 : Terrsa Hall

Chaired by Timothy Bender, M. Salomé Rodríguez-Morgade & Soji Shimizu

10:30 to 10:50 Invited Lecture

Ravikanth Mangalampalli *(Department of Chemistry, IIT Bombay, Powai, Mumbai 400076, India)*

The Chemistry Of Newly Emerging Contracted 14 π *Meso*-Tetraaryl Triphyrin(2.1.1)s

10:50 to 11:10 Invited Lecture

Satoru Hiroto *(Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, Japan)*, Moeko Chujo, Mana Wakita, Masahiko Fukumoto

Azahelicenes and triazahelicenes as Emerging Platforms for Low Band Gap Materials

11:10 to 11:30 Invited Lecture

M. Victoria Martínez-Díaz *(Universidad Autónoma de Madrid, Madrid, Spain)*, Tomás Torres, Lara Tejerina, Giulia Lavarda, María Lahoz, Rodrigo San Miguel

New Challenges in Chiral Subphthalocyanines

11:30 to 11:50 Invited Lecture

Gokulnath Sabapathi *(Indian Institute of Science Education and Research (IISER) Thiruvananthapuram, Thiruvananthapuram, India)*

Persistent vs. Induced Helical Chirality in bis-Subporphyrin-like Boron(III) Complexes and Anthracene Linked Twisted Macrocycles

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11:50 to 12:10 Invited Lecture

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

Superacid-Resistant Macrocyclic BODIPYs Inspired by Boron–Calix[3]pyrrole

12:10 to 12:30 Invited Lecture

Gema de la Torre *(Universidad Autónoma de Madrid, Madrid, Spain)*, Ainhoa Salazar, David Sánchez-Fernández, Patricia Calvo

Chiral Self-Sorting in Subphthalocyanine-Based Metallosupramolecular Cages

10. Highly conjugated porphyrinoids

Floor 3 : Large Conference Room A + B

Chaired by Tetsuo Okujima, Masayoshi Takase & Jishan Wu

10:30 to 10:50 Invited Lecture

Naoki Aratani *(Nara Institute of Science and Technology, Ikoma, Japan)*, Hirofumi Morimoto, Hiroko Yamada

Novel Synthetic Method and 22π Global Annulene Aromaticity of Photochromic Dibenzodimethyldihydropyrenes

10:50 to 11:10 Invited Lecture

Daiki Kuzuhara *(Iwate University, Morioka, Japan)*, Ryoma Matsuura, Anji Ohta

Syntheses of Expanded Porphyrins from o-Diarylbenzenes and 3,4-Diarylmaleimides

11:10 to 11:30 Invited Lecture

Hiromitsu Maeda *(Ritsumeikan University, Kusatsu, Japan)*

Porphyrin-based ion-pairing assembly

11:30 to 11:50 Invited Lecture

Mitsuaki Yamauchi *(Institute for Chemical Research(ICR), Kyoto University, Uji, Japan)*

Hydrogen-Bonded Tetrabenzoporphyrin Thin Films: Evaluation of Assembly Structure and Transistor Properties

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17. Self-assembled systems and materials

Floor 3 : Large Conference Room C

FRONTIER SPECIALTY CHEMICALS

Chaired by Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez

10:30 to 10:50 Invited Lecture

Xavi Ribas *(University of Girona, Girona, Spain)*

Multipurpose Porphyrin-Based Supramolecular Nanocapsules for Chemistry at the Confined Space

10:50 to 11:10 Invited Lecture

Shiki Yagai *(Chiba University, Chiba, Japan)*

Curvature-Emergent Supramolecular Polymerization of Chlorophylls and Porphyrins

11:10 to 11:30 Invited Lecture

Eduardo Anaya-Plaza *(Department of Bioproducts and Biosystems, School of Chemical Engineering, Aalto University, Espoo, Finland)*, Alba Sanz-Velasco

Multifaceted Exploration of Aggregation in Water: from Self-Assembly to Liquid-Liquid Phase Separation

11:30 to 11:50 Invited Lecture

Kazunori Sugiyasu *(Kyoto University, Kyoto, Japan)*

Precision synthesis of porphyrin-based supramolecular polymers

11:50 to 12:10 Invited Lecture

Miguel García-Iglesias *(Universidad de Cantabria, QUIPRE department, Santander, Spain)*, Víctor Rodríguez, David González-Rodríguez, Martijn Kemerink

Self-Assembled Polar Multifunctional Materials

12:10 to 12:30 Invited Lecture

Takashi Nakanishi *(National Institute for Materials Science, Tsukuba, Japan)*

π–Gel electrets toward deformable vibration sensors

12:30 to 12:50 Invited Lecture

Bartosz Szyszko *(University of Wroclaw Faculty of Chemistry, Wroclaw, Poland)*

Tautomerism and Dynamics — Two Sides of the Same Coin. Metallosupramolecular Assemblies Based on Iminopyrroles

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23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

Floor 2 : Seminar Rooms 1 + 2

Chaired by Gabriel Canard, Charles Devillers & Masatoshi Ishida

10:30 to 10:50 Invited Lecture

Ken-ichi Yamashita *(Department of Chemistry, Graduate School of Science, The University of Osaka, Osaka, Japan)*, Haruna Sugimura, Kana Nakajima

Redox Chemistry of [beta]-Tetracyanoporphyrins: From Free-Base Isophlorins to Lanthanide Double-Decker Complexes

10:50 to 11:10 Invited Lecture

Élodie Anxolabéhére-Mallart *(Sorbonne Université, Institut Parisien de Chimie Moléculaire, CNRS UMR 8232, Paris, France)*, Julien Bonin, Claire Fave, Marc Robert

O_2 activation and CO_2 reduction using Mn and Fe porphyrins: Operando spectroelectrochemical mechanistic studies

11:10 to 11:30 Invited Lecture

Nicolas Boscher *(Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg)*

Fused MetalloPorphyrins Thin Films for the Heterogeneous Electrocatalytic Conversion of Small and Low Energy Molecules into Advanced Chemicals

11:30 to 11:50 Invited Lecture

Philipp Gotico *(French Alternative Energies and Atomic Energy Commission, Gif-sur-Yvette, France)*, Adrien Smith, Regis Guillot, Stéphane Le Gac, Winfried Leibl, Ally Aukauloo, Bernard Boitrel, Marie Sircoglou, Zakaria Halime

Turning Repulsion into Reactivity: A Dynamic Carboxylate Relay in Iron Porphyrin CO_2 Reduction

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29. Health and sustainability

Floor 2 : Medium Conference Room

Chaired by Hiroaki Kitagishi & Antonino Mazzaglia

10:30 to 10:50 Invited Lecture

David B. Amabilino *(Barcelona Materials Science Institute (ICMAB-CSIC), Bellaterra, Spain)*, Kavya Anguluri, Bunty Sharma, Saman Bagherpour, Ana Calpena, Lyda Halbaut, Gurpreet Kaur, Ganga Ram Chaudhary, Lluisa Perez-Garcia

Antimicrobial behaviour of supramolecular gels containing a variety of porphyrins

10:50 to 11:10 Invited Lecture

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

Designing Photoactivity: Modulating Antimicrobial Photodynamic Effects through Polymer–Photosensitizer Interactions

11:10 to 11:30 Invited Lecture

M Amparo F Faustino *(University of Aveiro, Aveiro, Portugal)*, Ana S.M. Joaquinito, Cátia Vieira, Cristina J. Dias, Carlos J. P. Monteiro, Maria Bartolomeu, Nuno M. M. Moura

Designing Porphyrin Derivatives for Antimicrobial PDT

11:30 to 11:50 Invited Lecture

Dalip Kumar *(Birla Institute of Technology and Science, Pilani, Pilani, India)*

Efficient Synthesis of Heterocycle-Fused Porphyrins with Enhanced NIR Absorption and Singlet Oxygen Generation

...continued after lunch

37. Heme enzymes: Structure and function

Floor 3 : Conference Room 2

Chaired by Shun Hirota & Syun-Ru Yeh

10:30 to 10:50 Invited Lecture

John Hackett *(Florida International University, Miami, USA)*, Kamila Stokowa-Sołtys, Francisco Zarate-Perez

Applications of small-angle scattering to delineate P450-membrane and redox partner interactions

10:50 to 11:10 Invited Lecture

Izumi Ishigami *(Biochemistry / Albert Einstein College of Medicine, Bronx, USA)*, Gabriella Angiulli, Joshua H. Mendez, Syun-ru Yeh, Denis L. Rousseau

Cryo-EM structure of monomeric bovine cytochrome c oxidase in a lipid nanodisc

11:10 to 11:30 Invited Lecture

Koichiro Ishimori *(Hokkaido University, Sapporo, Japan)*

Conformational Gating Mechanism in Electron Transfer Reaction from Cytochrome c to Cytochrome c Oxidase

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11:30 to 11:50 Invited Lecture

Minoru Kubo *(University of Hyogo, Ako-gun, Japan)*

Enhanced proton pumping of cytochrome c oxidase in the presence of Higd1A

11:50 to 12:10 Invited Lecture

Takehiko Tosha *(Graduate School of Science, University of Hyogo, Hyogo, Japan)*

Effects of Dimerization on the Structure and Function of Membrane-bound Nitric Oxide Reductases

12:10 to 12:30 Invited Lecture

Hajime Hirao *(School of Medicine, The Chinese University of Hong Kong, Shenzhen, China)*

Computational Studies on Cytochrome P450: Reactivity in Drug Metabolism and Bonding Characteristics of Key Intermediates

40. Optical spectroscopy and photochemistry

Floor 3 : Conference Room D

Chaired by Kazuyuki Ishii, Mikalai Kruk, John Mack, Zhen Shen & Sergei Vinogradov

10:30 to 10:50 Invited Lecture

Dongho Kim *(Yonsei University, Seoul, Korea)*

Interplay between π-Electronic Circuits and Molecular Aromaticity in Fully Conjugated Asymmetric Multicyclic Macrocycles

10:50 to 11:10 Invited Lecture

Hidemitsu Uno *(Ehime University, Matsuyama, Japan)*

Benzene-Fusion of Porphyrinoids. Synthesis and Effects on Their Optical Properties

11:10 to 11:30 Invited Lecture

Naoto Ishikawa *(The University of Osaka, Osaka, Japan)*

Exploring the 4f–π Coupling in Lanthanide Porphyrinoids: Insights from Magneto-Optical Spectroscopy

...continued after lunch

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Thursday, 2 July - *Afternoon*

2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications

Floor 1 : Terrsa Hall

Chaired by Timothy Bender, M. Salomé Rodríguez-Morgade & Soji Shimizu

14:00 to 14:20 Invited Lecture

Dan Pantos *(University of Bath, Bath, United Kingdom)*, Oliver Nedderman, Tiberiu M. Gianga, Giuliano Siligardi

Subphthalocyanines, Phthalocyanines and Naphthalocyanines in Chiral Emissive Thin Films

14:20 to 14:40 Invited Lecture

M. Salomé Rodríguez-Morgade *(Departamento de Química Orgánica, Universidad Autónoma de Madrid, Madrid, Spain)*, Gema Pérez de Bustos, Julia Arnanz, Tomás Torres, Inés Corral, Alberto Concellón

Supramolecular Assemblies and Devices based on Subporphyrazines

14:40 to 15:00 Invited Lecture

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

Investigating Watson-Crick Hydrogen-bonding using BODIPY Dye Probes

15:00 to 15:20 Invited Lecture

Rüdiger Faust *(University of Kassel, Institute for Chemistry, Kassel, Germany)*, Anika Petersen, Lorena Vogt

Remote Photosensitization with SubPc/BOIMPY-Pyridone Dyads

15:20 to 15:40 Invited Lecture

Timothy Bender *(University of Toronto, Department of Chemical Engineering and Applied Chemistry, Toronto, Canada)*, Jennifer Tong, Andrew Jo, Keerthikah Jegatheesan

Progression on the Development of Boron Subphthalocyanines, Subnaphthalocyanines and Hybrids for their Applications and on the Sustainability Side.

15:40 to 16:00 Invited Lecture

Daigo Miyajima *(School of Science and Engineering, The Chinese University of Hong Kong, Shenzhen, China)*

A Subphthalocyanine-Based Platform for Probing Chirality and Polarity Effects

16:00 to 16:30

Coffee Break

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3. Corroles

Floor 1 : Terrsa Hall

Chaired by Daniel Gryko, Sara Nardis, Roberto Paolesse & Takayuki Tanaka

16:30 to 16:50 Invited Lecture

Martin Bröring *(IAAC, TU Braunschweig, Braunschweig, Germany)*

Main Group Corroles

16:50 to 17:10 Invited Lecture

Claude P. Gros *(Université Bourgogne Europe, ICMUB - UMR CNRS 6302, Dijon, France)*, Shivani Kessavdjee-Djouma, Nicolas Desbois, Haziq Naseer Khan, Tomas Moravec, Nguyet-Thanh Ha Duong

Plant virus-corrole hybrids as bio-inspired antiviral nanomaterials

17:10 to 17:30 Invited Lecture

Zeev Gross *(Technion- Israel Institute of Technology, 3200003, Israel)*

Minimally Substituted Corroles for Testing Structural and Electronic Effects on Fundamental Properties and Electrocatalysis

17:30 to 17:50 Invited Lecture

Daniel Gryko *(Institute of Organic Chemistry Polish Academy of Sciences, Warsaw, Poland)*, Beata Koszarna, Łukasz Kielesiński

Novel π-expanded corroles

17:50 to 18:10 Invited Lecture

Sankar Jeyaraman *(Indian Institute of Science Education and Research (IISER) Bhopal, Bhopal, India)*, Baranya Kanungo, Senthamizh Selven

Metal Complexes of Modified Corroles as Novel Electronic Materials

18:10 to 18:30 Invited Lecture

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

Predicting NIR Phosphorescent Emission and Singlet Oxygen Sensitization by 5d Metalloporphyrins and Metallocorroles

...continued Friday morning

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11. Porphycenes

Floor 3 : Large Conference Room A + B

Chaired by Arkadiusz Listkowski, Toshikazu Ono & Jacek Waluk

14:00 to 14:20 Invited Lecture

Jacek Waluk *(Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland)*, Arkadiusz Listkowski, Agnieszka Gajewska, Michał Kijak, Idaresit Mbakara, Agnieszka Jamrozik, Aleksander Gorski, Barbara Golec

Porphycenes: experimental and theoretical studies of photophysics, photostability, and single molecule detectability

14:20 to 14:40 Invited Lecture

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

Structure-Reactivity Relationship Studies of Monocationic μ-Nitrido-Bridged Iron Porphyrinoid Dimers

14:40 to 15:00 Invited Lecture

Yair Litman *(Max Planck Institute for Polymer Research, Mainz, Germany)*

Quantum Dynamics of Hydrogen Transfer in Porphycene: From Gas Phase to Adsorption on Metal Surfaces

15:00 to 15:20 Invited Lecture

Alberto Bossi *(Istituto di Scienze e Tecnologie Chimiche "G. Natta", CNR-SCITEC, MILANO, Italy)*, Marta Penconi, Jacek Waluk, Arkadiusz Listkowski, Agnieszka Gajewska, Aurora Antonello, Gianlorenzo Bussetti

Porphycene Thin Films as Optically Reversible Chemosensors in 2D and 3D Architectures

15:20 to 15:40 Invited Lecture

Pradeepta Panda *(School of Chemistry, University of Hyderabad, Hyderabad, India)*, Anup Rana, Nagamaiah J, Sameeta Sahoo, Narmada K, Jiji K, Raghuvaran R, Pankaj Kumari, Arnab Dutta, Akshat Bisht

Design and synthesis of 3,6,13,16-substituted porphycenes & complexation studies of *ß,ß'*-bipyrrole fused porphycenes

15:40 to 16:00 Invited Lecture

Arkadiusz Listkowski *(Faculty of Mathematics and Natural Sciences, College of Science, Cardinal Stefan Wyszyński University, Warsaw, Poland)*, Weronika Bodek, Magdalena Piechocka, Aleksandra Krogulska, Michał Kijak, Jacek Waluk

Porphycene and Corrphycene: Useful Objects for Intramolecular Hydrogen Bond Transfer Studies

16:00 to 16:30

Coffee Break

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14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

Floor 3 : Large Conference Room A + B

Chaired by Pavel Stuzhin

16:30 to 16:50 Invited Lecture

Nagao Kobayashi *(Department of Chemistry/Ochanomizu University, Bunkyo-ku, Japan)*, Yusuke Okada, Hirofusa Shirai

Characteristics of Mononuclear High-Spin Ferric Phthalocyanines: Comparison with Ferric Porphyrins

16:50 to 17:10 Invited Lecture

Alexander Sorokin *(IRCELYON, CNRS, Villeurbanne, France)*, Andrey Kroitor, Alexander Dmitrienko, Alexander Martynov, Yulia Gorbunova

Chiral Ruthenium Phthalocyanine for Highly Efficient Dia- and Enantioselective Catalysis

17:10 to 17:30 Invited Lecture

Sandra Belviso *(Università della Basilicata, Potenza, Italy)*, Giuseppe Larotonda, Francesco Pizzoli, Gabriele Magna, Roberto Paolesse

Thioalkyl Porphyrazines: from Materials to Catalysis and Sensing

17:30 to 17:50 Invited Lecture

Dmitri Konarev *(Federal research center of problems of chemical physics and medicinal chemistry RAS, Chernogolovka, Russia)*, Maxim Faraonov, Nikita Romanenko, Dmitriy Nazarov, Akihiro Otsuka

Magnetic and Optical Properties of Anionic Metallomacrocycles.

17:50 to 18:10 Invited Lecture

Pavel A. Stuzhin *(Ivanovo State University of Chemistry and Technology, Ivanovo, Russia)*, Dmitriy A. Lazovskii, Alina M. Fazlyeva, Ivan A. Skvortsov

Hydrolytic Scission of (Sub)porphyrazine Macrocycle as a New Approach to Diazatripyrrines

18:10 to 18:30

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

Silicon(IV) Porphyrazines and Corrolazines

...continued Friday morning

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17. Self-assembled systems and materials

Floor 3 : Large Conference Room C

FRONTIER SPECIALTY CHEMICALS

Chaired by Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez

14:00 to 14:20 Invited Lecture

Chris Fry *(Center for Nanoscale Materials, Argonne National Laboratory, Lemont, USA)*, Jesse Prelesnik, Henry Chan

Computationally Assisted Design of Heme Binding Self-Assembled Peptide Materials

14:20 to 14:40 Invited Lecture

Lluisa Pérez-García *(Universitat de Barcelona, Barcelona, Spain)*, Pascual López-Algarra, Saman Bagherpour, Alba Pereda-Velarde, Silvia Gines, Patricia Vázquez, Marta Duch, Juan Pablo Agusil, José Antonio Plaza, Mariano Redondo-Horcajo, Teresa Suárez

Self-Assembly and Supramolecular Design of Functional Nanostructured Materials for Biological Interfacing

14:40 to 15:00 Invited Lecture

Amar Flood *(Indiana University, Bloomington, USA)*

Anchor-Driven Assembly

15:00 to 15:20 Invited Lecture

Alberto de Juan *(Universidad Autónoma de Madrid, Madrid, Spain)*, A. Priscila Gia, Beatriz Torres-Calvo, David González-Rodríguez

Confined by Porphyrins: Molecular Cages with Exceptional Cooperative Host–Guest Interactions

15:20 to 15:40 Invited Lecture

Valérie Heitz *(Institut de Chimie de Strasbourg, Strasbourg, France)*

Switchable Systems Incorporating Porphyrins

15:40 to 16:00 Invited Lecture

Jean Weiss *(Institut de Chimie de Strasbourg, Strasbourg, France)*

A 35-year journey in strapped porphyrin self-assembly

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Joe Otsuki *(Nihon University, Tokyo, Japan)*

Face-to-Face Porphyrin Dimers via Coordination and Dynamic Covalent Bonding

16:50 to 17:10 Invited Lecture

Juan R. Granja *(Universidade de Santiago de Compostela, Santiago de Compostela, Spain)*, Alfonso Bayón, Alba Torrón, Marcos Vilela, Martín Vázquez

Self-Assembling Cyclic Peptides: Fibers and Nanosheets

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17:10 to 17:30 Invited Lecture

Thomas A. Jung *(Paul Scherrer Institute, Villigen PSI, Switzerland)*, Jan Girovsky, Milos Baljozovic, Sylwia Nowakowska, Jan Nowakowski, Aneliia Waeckerlin, S. Fatemeh Mousavi, Christian Waeckerlin, Aisha Ahsan, Jan Dreiser, Jorge Lobo Checa, Meike Stoehr, Lutz H. Gade, Silvio Decurtins, Shi-Xia Liu, Peter M. Oppeneer, Kartick Tarafder, Nirmalya Ballav

A surface scientist's view into the key mechanisms of porphyrins and phthalocyanines and their chemical, electronic, and spin-tronic action in a broad range of applications

20. MOF and COF

ERRATUM: TUESDAY 30 JUNE

Floor 3 : Large Conference Room C

same room/same times

Chaired by Shengqian Ma & Takashi Uemura

14:00 to 14:20 Invited Lecture

Jier Huang *(Boston College, Chestnut Hill, USA)*, Liangji Chen, James Wilkes

Probing Charge Transport and Separation Mechanism in Porous Crystalline Frameworks

14:20 to 14:40 Invited Lecture

Mio Kondo *(Department of Chemistry, School of Science, Institute of Science Tokyo, Tokyo, Japan)*

Molecular Assembly for Small Molecule Conversions

14:40 to 15:00 Invited Lecture

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

Design and Application of Porous Porphyrin-Derivative Frameworks

15:00 to 15:20 Invited Lecture

Daisuke Tanaka *(Department of Chemistry, School of Science, Kwansei Gakuin University, Sanda, Japan)*

Electrolytic Synthesis of Porphyrinic Zr Metal-Organic Frameworks with Selective Crystal Topologies

15:20 to 15:40 Invited Lecture

Takashi Uemura *(The University of Tokyo, Tokyo, Japan)*

Reticular Frameworks for Macromolecular Science and Technology

15:40 to 16:00 Invited Lecture

Michito Yoshizawa *(Institute of Science Tokyo, Yokohama Tokyo, Japan)*

Aromatic Micelles with Host Functions toward Aromatic Polymers

16:00 to 16:30

Coffee Break

16:30 to 16:50

Lior Elbaz *(Lior Elbaz, Bar Ilan University, Ramat-Gan, Israel)*

Design and Application of Aerogel-based Catalysts for Oxygen Reduction Reaction in Fuel Cells

continued over the page

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16:50 to 17:10

Sébastien Clément *(ICGM - UMR 5253 - Dpt D1, Montpellier, France)*, Julie-Lisa Malaval, Michel Granier, Sébastien Richeter

Porphyrin-based conjugated polyHIPEs for photocatalytic degradation of organic pollutants

17:10 to 17:20

Amr Nada *(Luxembourg Institute of Science and Technology, Esch-sur-Alzette, , Luxembourg)*, Nicolas Boscher, Deepak Bansal

Gas-Phase Synthesis of Porphyrin-based Donor-Acceptor Covalent Organic Framework Thin Films: Electrocatalysts for OER and ORR

21. Catalysis for sustainability

Floor 2 : Seminar Rooms 1 + 2

Chaired by Tadashi Ema, Emma Gallo & Xianhong Wang

14:00 to 14:20 Invited Lecture

Peter Zhang *(Boston College, Chestnut Hill, USA)*

Open-Shell Metalloporphyrins as Metalloradical Catalysts for Homolytic Radical Reactions

14:20 to 14:40 Invited Lecture

Emma Gallo *(Department of Chemistry, Milan, Italy)*, Matteo Cavalleri, Lucia Invernizzi, Caterina Damiano

Carbene Transfer Reactions in Aqueous Environment Promoted by Heterogenized Iron Porphyrins

14:40 to 15:00 Invited Lecture

Takehiko Yoshimitsu *(Division of Pharmaceutical Sciences, Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University, Okayama, Japan)*

Visible-Light-Driven Zn(II) porphyrin Catalysis in Natural Product Synthesis

15:00 to 15:20 Invited Lecture

Ivana Ivanovic-Burmazovic *(Department of Chemistry, LMU, Munich, Germany)*

Secondary-Sphere-Controlled Metalloporphyrins for Activation of Small Molecules of Energy, Environmental, and Biological Relevance

15:20 to 15:40 Invited Lecture

Shunjie Liu *(Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China)*

Efficient Synthesis of CO_2-Polyols by Polymeric Aluminum Porphyrin Catalysts

15:40 to 16:00 Invited Lecture

Xianhong Wang *(Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China)*

Sustainable Pressure-Sensitive Adhesives Derived from CO_2-Based Polymers

16:00 to 16:30

Coffee Break

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16:30 to 16:50 Invited Lecture

Akiharu Satake *(Tokyo University of Science, Shinjuku-ku, Japan)*, Leonardo Hayato Foianesi-Takeshige

Directly Linked 2,2′-Bipyridine–Porphyrin Architectures: Molecular Platforms for Multinuclear Assembly

16:50 to 17:10 Invited Lecture

Hiroaki Kotani *(University of Tsukuba, Tsukuba, Ibaraki, Japan)*, Takahiko Kojima

Photocatalytic formation of hydrogen (H_2) and hydrogen peroxide (H_2O_2) catalyzed by nonplanar porphyrins

17:10 to 17:30 Invited Lecture

Francesca Tessore *(Department of Chemistry, University of Milan, Milan, Italy)*, Ilaria Barlocco, Gabriele Di Carlo, Manuel Minnucci, Elisa Pianta, Alberto Villa

Rhodium Porphyrin-Based Catalysts for Ammonia Borane Hydrolytic Dehydrogenation

17:30 to 17:50 Invited Lecture

Tadashi Ema *(Okayama University, Okayama, Japan)*

Synthesis of CO_2-Based Polymers Using Bifunctional Porphyrin Catalysts

17:50 to 18:10

Ulrike Kramm *(TU Darmstadt, Department of Chemistry, Darmstadt, Germany)*, Kosovare Zullufi, Anusree Ghosh, Nicole Segura-Salas, Lingmei Ni, Herbert Plenio

Comparing FeN4 motifs with either pyridinic or pyrrolic coordination for the activation of oxygen

18:10 to 18:30

Dino Villagran *(Department of Chemistry and Biochemistry, The University of Texas at El Paso, El Paso, USA)*, Neidy Ocuane, Alexandria Castillo, Rebeca Favela, Nasim Jafari

Active-Site Identity and Mechanistic Pathways in Porphyrin-Based Electrocatalysts for Water Splitting

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29. Health and sustainability

Floor 2 : Medium Conference Room

Chaired by Hiroaki Kitagishi & Antonino Mazzaglia

14:00 to 14:20 Invited Lecture

Teruyuki Komatsu *(Chuo University, Tokyo, Japan)*

Biocompatible Polymer-Conjugated Hemoglobins: Artificial O_2 Carriers as Red Blood Cell Substitutes

14:20 to 14:40 Invited Lecture

Mariachiara Trapani *(CNR ISMN Istituto per lo Studio dei Materiali Nanostrutturati, URT Messina, Messina, Italy)*, Maria Angela Castriciano, Massimiliano Cordaro, Antonino Mazzaglia, Andrea Romeo, Roberto Zagami, Luigi Monsù Scolaro

Exploiting chromophores and inorganic nanomaterials in functional nanohybrids

14:40 to 15:00 Invited Lecture

Yuki Ohishi *(University of Toyama, Toyama, Japan)*, Taiki Ichikawa, Masahiko Inouye

Highly Water-Soluble and Durable Rotaxane-Type Porphyrin Dyes Used as Photosensitizers for Photodynamic Therapy

15:00 to 15:20 Invited Lecture

Antonino Mazzaglia *(CNR ISMN, Messina, Italy)*, Giuseppe Nocito, Giuseppe Mistretta, Mariachiara Trapani, Simona Salerno, Roberto Zagami, Luigi Monsù Scolaro

Biomaterials based on Porphyrinoid/Cyclodextrin Assemblies: from Hybrids to Composites with Photoantimicrobial Action

15:20 to 15:40 Invited Lecture

Hiroaki Kitagishi *(Doshisha University, Kyotanabe, Japan)*

Synthesis and Biological Application of Artificial Hemoglobin/Myoglobin

15:40 to 16:00 Invited Lecture

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

Phthalocyanines with improved properties for photodynamic applications

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30. Functional chromophores for sensing and imaging

Floor 2 : Medium Conference Room

Chaired by Anzhela Galstyan, Jonathan Hill & Veronika Novakova

16:30 to 16:50 Invited Lecture

Luis Arnaut *(University of Coimbra, Coimbra, Portugal)*

Bacteriochlorins and Phthalocyanines in Photoacoustic Tomography

16:50 to 17:10 Invited Lecture

Sergey Borisov *(Institute of Analytical Chemistry and Food Chemistry, Graz University of Technology, Graz, Austria)*, Ruslan Dmitriev, Angela Debruyne, Irina Okkelman, Giulia Ceriotti, Georg Schwendt, Andreas Matijevic, Torsten Mayr, Michael Kühl

Sensing and Imaging with Red to NIR Emitting Metalloporphyrin and Aza-BODIPY Dyes

17:10 to 17:30 Invited Lecture

Jan Labuta *(National Institute for Materials Science (NIMS), Tsukuba, Japan)*

NMR Detection of Enantiomeric Excess Using Symmetric Porphyrins as Prochiral Solvating Agents (pro-CSAs)

17:30 to 17:50 Invited Lecture

Juan Chen *(Princess Margaret Cancer Centre, Canada)*, Gang Zheng

Advanced Porphyrin Nanoparticles for Cancer Theranostics

17:50 to 18:10 Invited Lecture

Evelyn Y. Xue *(The Chinese University of Hong Kong, Hong Kong, China)*, Dennis K. P. Ng

Development of Supramolecular and Bioorthogonal Approaches to Overcome the Challenges of Photodynamic Therapy

18:10 to 18:30

Dmitri Papkovsky *(University College Cork, Cork, Ireland)*

Phosphorescent porphyrin (nano)probes for sensing, imaging and cell analysis

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34. Heme proteins and synthetic analogues

Floor 3 : Conference Room 2

Chaired by John Dawson & Takashi Hayashi

16:30 to 16:50 Invited Lecture

Sukyeong Kim *(Graduate School of Science, Nagoya University, Nagoya, Japan)*, Yuichiro Aiba, Hiroshi Sugimoto, Osami Shoji

Construction of Artificial Hemoprotein Assemblies by Rational Design of Porphyrin Oligomers

16:50 to 17:10 Invited Lecture

Takeshi Uchida *(Hokkaido University, Sapporo, Japan)*, Marika Yamaguchi, Koichiro Ishimori

Dye-Degradation Reaction by Cytochrome P460 from Nitrosomonas europaea

17:10 to 17:30 Invited Lecture

Tsunehiko Higuchi *(Nagoya City University, Nagoya, Japan)*, Yuto Tsuzuki, Yosuke Hisamatsu, Naoki Umezawa, Min Liu, Kazuko Saeki, Takehiko Yokomizo

In vitro and In Cell Conversion of Prostaglandin H_2 into A Bioactive Fatty Acid Catalyzed by Cytochrome P450 Mimics

17:30 to 17:50 Invited Lecture

Rebecca Donegan *(Barnard College, New York, USA)*, Grace Wang, Jessica Samudio, Hadia Aftab, Lily Le, Fereshteh Zandakrimi

Export of Coproporphyrin III and its Role in Heme Homeostasis in Mycobacteria

17:50 to 18:10 Invited Lecture

Hannah Palomino *(Northwestern University, Evanston, USA)*, Aaron Shoemaker, Sabrina El-Gamal, Cybele Lemuh Njimoh, Nicolai Lehnert, Bryan Hunter, Karl Scheidt, Nathan Gianneschi

Enzyme-like Polymers: A Synthetic Approach to Mimicking Multimeric Hemoproteins

37. Heme enzymes: Structure and function

Floor 3 : Conference Room 2

Chaired by Shun Hirota & Syun-Ru Yeh

14:00 to 14:20 Invited Lecture

Tsuyoshi Mashima *(Nara Institute of Science and Technology, Ikoma, Japan)*, Haruki Onishi, Yuya Tanaka, Naoya Kobayashi, Shun Hirota

Construction of stable myoglobin oligomers by designed 3D domain swapping

14:20 to 14:40 Invited Lecture

Giulietta Smulevich *(Chemistry, Sesto Fiorentino, Firenze, Italy)*, Federico Sebastiani, Laura Cesati, Mirco Meglioli, Marco Borsari, Gianantonio Battistuzzi

Influence of the distal His and the intramolecular disulfide Cys46-Cys55 bridge on the sulfide binding to human neuroglobin

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14:40 to 15:00 Invited Lecture

Sachiko Yanagisawa *(University of Hyogo, Ako-gun, Hyogo, Japan)*

Temperature dependence of substrate inhibition in human Indoleamine 2,3-dioxygenase1

15:00 to 15:20 Invited Lecture

Mario Rivera *(Department of Chemistry, Louisiana State University, Baton Rouge, USA)*

The Mobilization of Iron Stored in Bacterioferritin Requires Heme and is Indispensable for Metabolic Homeostasis in Bacteria

15:20 to 15:40 Invited Lecture

George Richter-Addo *(Chemistry and Biochemistry, Norman, USA)*, Tsitsi Kapfunde, Jennifer Londono-Salazar, Chance Lander, Guan Ye, Yong Zhang, Yihan Shao

Insertion of Nitric Oxide Into a Metalloporphyrin-Carbon Bond

16:00 to 16:30

Coffee Break

40. Optical spectroscopy and photochemistry

Floor 3 : Conference Room D

Chaired by Kazuyuki Ishii, Mikalai Kruk, John Mack, Zhen Shen & Sergei Vinogradov

14:00 to 14:20 Invited Lecture

Dage Sundholm *(Department of Chemistry/University of Helsinki, Helsinki, Finland)*, Daniel Blasco, Maria Dimitrova, Rinat T. Nasibullin, Qian Wang

Magnetically Induced Current Densities and Nuclear Magnetic Shielding Tensors

14:20 to 14:40 Invited Lecture

Atsuya Muranaka *(RIKEN, Wako, Japan)*, Yu Hatakenaka, Naoyuki Toriumi, Hiroyuki Koshino, Masanobu Uchiyama

Remarkable Isomeric Effects on Near-Infrared Absorption and Aromaticity of a Core-Modified Phthalocyanine Incorporating Two Phenolic Groups

14:40 to 15:00 Invited Lecture

Nobuhiro Yanai *(The University of Tokyo, Tokyo, Japan)*

Photo-Excited Porphyrins as a Platform for Spin Hyperpolarization: From Magnetic Resonance to Quantum Sensing

15:00 to 15:20 Invited Lecture

Mikhail Filatov *(Technological University Dublin, Dublin, Ireland)*

Switchable Formation of Triplet States in BODIPY via Charge Transfer: Toward Next-Generation Photosensitizers

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15:20 to 15:40 Invited Lecture

Yusuke Kuramochi *(Kindai University, Higashi-Osaka, Japan)*

Mechanistic Role of the Excited Triplet State of Zn(II) Porphyrin in Photocatalytic Carbon Dioxide Reduction

16:00 to 16:30

Coffee Break

16:30 to 16:50 Invited Lecture

Kazuyuki Ishii *(Institute of Industrial Science, The University of Tokyo, Tokyo, Japan)*

Direct Observation of the S0 → Tn Transitions in Porphyrin Complexes, Evidenced by Magnetic Circular Dichroism

16:50 to 17:10 Invited Lecture

Victor N. Nemykin *(University of Tennessee - Knoxville, Knoxville, USA)*

Elucidation of the Electronic Structure of Modified Porphyrins and Their Analogues Using Experimental and Theoretical Methods

17:10 to 17:30 Invited Lecture

Hong Wang *(Chemistry/University of North Texas, Denton, USA)*, Ting Han, Nikhil Kumar, Kendra Hamilton, Yuanxi Wang, Jens Neu, Saad Shiakh

Covalent Organic Frameworks Based on π-Extended Porphyrins: Synthesis and Characterization

17:30 to 17:50 Invited Lecture

Ka-Leung Wong *(City University of Hong Kong, Hong Kong, China)*

Bimetallic porphyrin PET radiotracers for Low-Dose MRI contrast enhancement

17:50 to 18:10 Invited Lecture

Kosuke Suzuki *(The University of Tokyo, Kashiwa, Japan)*

Porphyrin-Polyoxometalate Molecular Hybrids as Highly Efficient, Durable, Visible-Light-Responsive Photocatalysts

18:10 to 18:30

Malkanthi Karunananda *(Saint Louis University, St. Louis, USA)*, Madhusha Manna Peruma, Rishi Ranjan, Dariusz Niedzwiedzki

Tuning Photophysical Properties of Metalloporphyrins via Electronic Control: Experimental and Computational Insights

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42. Contributed - Materials

Floor 3 : Large Conference Room C

Chaired by Giovanni Bottari, Athanassios Coutsolelos & David Gonzalez-Rodriguez

17:30 to 17:50

Daniel Arribas *(Max Planck Institute for Solid State Research, Stuttgart, Germany)*, Thiago G. L. Brito, Myriam Wadsack, Claudia Leticia Gómez Flores, Irena Padniuk, Victor Feitosa, Klaus Kuhnke, Klaus Kern, Kelvin Anggara, Anna Rosławska

Optical characterisation of single chlorophyll molecules at the sub-nanometre scale

17:50 to 18:00

Aisha Ahsan *(Department of Physics, Basel University, Basel, Switzerland)*, S. Fatemeh Mousavi, Aaron Oechsle, Narmadha Devi, Luiza Buimaga-Iarinca, Christian Morari, Thomas Jung, Jonathan P Hill

Conformational diversity in the supramolecular assembly of porphyrins on single crystal substrates

18:00 to 18:10

Ana R. Monteiro *(CiQUS, University of Santiago de Compostela, Santiago de Compostela, Spain)*, Jesús Bello-García, Alba García-Frutos, Aurelio Gallardo, Ana Barragán, David Écija, Diego Peña

Expanding the Toolbox for On-Surface Porphyrin Polymerization via Indenyl Coupling

18:10 to 18:20

Darya Klyamer *(Nikolaev Institute of Inorganic Chemistry of SB RAS (NIIC SB RAS), Novosibirsk, Russia)*, Victoria Ivanova, Pavel Krasnov, Tamara Basova

Hybrid Materials Based on Metal Phthalocyanines and Carbon Nanotubes: Synthesis and Sensor Properties

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Friday, 3 July - *Morning*

Award Lecture

Floor 1 : Terrsa Hall

Sessler Family Charitable Trust

09:00 to 10:00

Robert Burns Woodward Career Award *for Lifetime Achievements in the field of Porphyrin Chemistry Lecture*

Introduced by Abhik Ghosh

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

Porphyrin-Based Molecular Wires, Nanorings and Nanobelts

10:00 to 10:30

Coffee Break

3. Corroles

Floor 1 : Terrsa Hall

Chaired by Daniel Gryko, Sara Nardis, Roberto Paolesse & Takayuki Tanaka

10:30 to 10:50 Invited Lecture

Sara Nardis *(University of Rome Tor Vergata, Rome, Italy)*

N,N-dimethylcorroles: functionalizations and applications

10:50 to 11:10 Invited Lecture

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

Serendipitous formation of *meso*-free corroles via [3+1] approach and its oxidation to *meso*-oxoisocorroles

11:10 to 11:30 Invited Lecture

Giuseppe Pomarico *(Department of Chemistry, Sapienza - University of Rome, Rome, Italy)*, Martina Marsotto, Manuela Stefanelli, Frank R. Fronczek, Roberto Paolesse

Ag(III) [beta]-alkylcorrolates: the simple made complex

11:30 to 11:50 Invited Lecture

Wolfgang Schöfberger *(Insitute of Organic Chemistry, Johannes Kepler University Linz, Linz, Austria)*, Sankit Vala, Simon Offenthaler, Adrian Dorniak

Cryogenic Mechanochemistry for Sustainable Porphyrinoid Catalyst Design in Energy Storage Systems

11:50 to 12:10 Invited Lecture

Stefano Superchi *(University of Basilicata, Potenza, Italy)*, Ernesto Santoro, Francesco Pizzoli, Umberto Calice, Alessia Fata, Gabriele Magna, Sara Nardis, Roberto Paolesse

Chiroptical Properties of Inherently Chiral N-Alkyl Corroles

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9. NIR-responsive porphyrinoids

Floor 3 : Large Conference Room A + B

Chaired by Harry Anderson, Taniyuki Furuyama & Yoshihiro Matano

11:30 to 11:50 Invited Lecture

Mercedes Alonso *(Vrije Universiteit Brussel, Brussel (Elsene), Belgium)*, Eline Desmedt, Freija De Vleeschouwer

Aromaticity in the Spectroscopic Spotlight: Expanded Porphyrins

11:50 to 12:10 Invited Lecture

Masatoshi Ishida *(Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University, Hachioji, Japan)*

N-Confused Bilatriene as a Versatile Scaffold for Metal–π Conjugated Porphyrinoids

12:10 to 12:30 Invited Lecture

Akimitsu Narita *(Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan)*

Triply-Fused Porphyrin-Nanographene Conjugates with NIR Absorption and Related Nanographenes with Zigzag Edges

...continued after lunch

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14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

Floor 3 : Large Conference Room A + B

Chaired by Pavel Stuzhin

10:30 to 10:50 Invited Lecture

Veronika Novakova *(Charles University, Faculty of Pharmacy in Hradec Kralove, Hradec Kralove, Czech Republic)*, Leon David Rodrigues, Mary Angelia Alfred, Petr Zimcik

Axial and Peripheral Functionalization of Silicon(IV) Phthalocyanines

10:50 to 11:10 Invited Lecture

Tatiana Dubinina *(Lomonosov Moscow State University, Moscow, Russia)*, Mikhail Belousov, Roman Eremeev, Mikhail Antanyazov, Maria Ivanova, Ivan Burtsev, Alina Markova, Vladimir Kuzmin

Hetero-Annelated Porphyrazines and Subporphyrazines: Promising Photosensitizers and Luminophores

11:10 to 11:20

Nikita Romanenko *(Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry, Russian Academy of Sciences (FRC PCPMC RAS), Chernogolovka, Russia)*, Dmitry Konarev, Faraonov Maksim

Synthesis and Properties of Trinuclear Complexes Based on Iron(II) Octaethyltetrapyrazinoporphyrazine with 3d and 4f Metals

FRIDAY AM

16. Organic electronics and sensors

Floor 3 : Large Conference Room C

Chaired by Marcel Bouvet, Corrado Di Natale, Benoît Lessard & Hiroko Yamada

10:30 to 10:50 Invited Lecture

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

Silicon Phthalocyanines: From Air Stable N-Type To Record Breaking P-Type Performance In OTFTs

10:50 to 11:10 Invited Lecture

Alessandro Luzio *(Istituto Italiano di Tecnologia (IIT), Milano, Italy)*, Mario Caironi

Phthalocyanine-based Edible Electronics

11:10 to 11:30 Invited Lecture

Hironobu Hayashi *(National Institute for Materials Science, Tsukuba, Japan)*, Hiroko Yamada

Single Crystal Field-Effect Transistor of Tetrabenzoporphyrin with a One-Dimensional Columnar Packing Motif

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11:30 to 11:50

Keitaro Yamamoto *(ICR, Kyoto University, Uji, Japan)*, Hiroko Yamada, Yutaka Ie

Isothianaphthene Quinoids with Controlled Diradical Character for NIR Phototransistors Using Porphyrin Hybrid Systems

11:50 to 12:10 Invited Lecture

Norihito Fukui *(Nagoya University, Nagoya, Japan)*

From porphyrin to functional imide π-systems for organic electronics

12:10 to 12:30 Invited Lecture

Qian Miao *(The Chinese University of Hong Kong, Hong Kong, China)*, Mengna Zhao, Han Chen, Xin Xie, Huishu Ma

Carbazole-Based Macrocycles and Semiconductors: From Geometric Diversity to Electronic Devices

12:30 to 12:50 Invited Lecture

Hiroko Yamada *(Institute for Chemical Research, Kyoto University, Uji, Japan)*, Kazuya Miyazaki, Keitaro Yamamoto

Solvent-Desorption-Induced Single-Crystal-to-Single-Crystal Transformation of Tetrabenzoporphyrin Leading to "Layered Herringbone Superlattice"

22. Solar cells and fuels

Floor 2 : Seminar Rooms 1 + 2

Chaired by Hiroshi Imahori & Fabrice Odobel

10:30 to 10:50 Invited Lecture

Ken Sakai *(Department of Chemistry, Faculty of Science, Kyushu University, Fukuoka, Japan)*

Photocatalytic CO_2 Reduction in Aqueous Media

10:50 to 11:10 Invited Lecture

Stefano Caramori *(Department of Chemical, Pharmaceutical and Agricultural Sciences, Università degli studi di Ferrara, Ferrara, Italy)*, Edoardo Marchini, Francesca Tessore, Gabriele Di Carlo

Perfluorinated Zinc Porphyrin for Sensitized Photoelectrosynthetic Cells

11:10 to 11:30 Invited Lecture

Georgios Charalambidis *(National Hellenic Research Foundation, Athens, Greece)*, Fabrice Odobel, Athanassios G. Coutsolelos

Solar-Driven Photocatalysis for Hydrogen Generation and Carbon Dioxide Conversion

11:30 to 11:50 Invited Lecture

Fabrice Odobel *(CNRS-Nantes University, Nantes, France)*, Diego Defferrari, Stéphane Diring, Paulo Marques-Cordeiro-Junior, Marc Robert

Porphyrinoid macrocycles as dyes and catalysts for solar energy conversion

FRIDAY AM

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32. Photoimmunotherapy

Floor 2 : Medium Conference Room

Chaired by Janusz Dabrowski & Tayyaba Hasan

10:30 to 10:50 Invited Lecture

Tayyaba Hasan *(MGH/Harvard, Boston, USA)*

The Two Faces of Photoimmunotherapy

10:50 to 11:10 Invited Lecture

Hisataka Kobayashi *(Kansai Medical University/ National Cancer Institute, laurel, USA)*

Near Infrared Photoimmunotherapy of Cancer

11:10 to 11:30 Invited Lecture

Santi Nonell *(Institut Quimic de Sarria CETS, Barcelona, Spain)*, Mireia Jordà-Redondo, Ana Piqueras, Ana Castillo, Pedro L. Fernández, Roger Bresolí-Obach, Lidia Blay, Joan-Francesc Julián-Ibáñez

Photoimmunotherapy with IRDye700DX Bypasses Trastuzumab Resistance in HER2-Positive Breast Cancer

11:30 to 11:50 Invited Lecture

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

Targeted Nanotechnology and Microendoscopy for Photoimmunotherapy of Peritoneal Metastasis

11:50 to 12:10 Invited Lecture

Girgis Obaid *(University of Texas at Dallas, Richardson, USA)*

Dissecting the mechanisms of photochemical immunogenic cell death by verteporfin-lipid using unsupervised machine learning

12:10 to 12:30 Invited Lecture

Pål Selbo *(Institute for Cancer Research, Oslo University Hospital, Oslo, Norway)*

Photochemical approaches for strengthening cancer immunotherapy

12:30 to 12:50 Invited Lecture

Layla Pires *(Texas A&M University, TX, USA)*, Carla Calcada, Michael Valic, Tracy Liu, Juan Chen, Gang Zheng, Brian Wilson

Porphysome-mediated photodynamic immune stimulation

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38. Chemistry and biology of corrinoids and related compounds

Floor 3 : Conference Room 2

Chaired by Dorota Gryko, Hisashi Shimakoshi & Felix Zelder

10:30 to 10:50 Invited Lecture

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

B_{12} - from Vitamin to Antivitamin B_{12}

10:50 to 11:10 Invited Lecture

Robert Doyle *(Syracuse University, Syracuse, USA)*, Nancy Cham, Tito Borner, Matthew R. Hayes, Bart C. De Jonghe

Dicyanocobinamide conjugates of Exendin-4 confers glucoregulation without weight-loss or nausea in tumour-bearing rats

11:10 to 11:30 Invited Lecture

Koji Oohora *(The University of Osaka, Suita, Japan)*

Engineered Hemoprotein Containing Ni Tetradehydrocorrin as an Artificial Cofactor

11:30 to 11:50 Invited Lecture

Naoki Shibata *(Department of Life Science, Graduate School of Science, University of Hyogo, Ako-gun, Japan)*

Structure of O_2-inactivated Radical B_{12} Diol Dehydratase and Identification of Adenosylcobalamin Degradation Products

11:50 to 12:10 Invited Lecture

Hisashi Shimakoshi *(Kyushu University, Fukuoka, Japan)*

Boosting Photocatalytic DDT Dechlorination by B_{12} Complex with Formate

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40. Optical spectroscopy and photochemistry

Floor 3 : Conference Room D

Chaired by Kazuyuki Ishii, Mikalai Kruk, John Mack, Zhen Shen & Sergei Vinogradov

10:30 to 10:50 Invited Lecture

Alexander G. Martynov *(Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Andrey P. Kroitor, Alexander A. Dmitrienko, Yulia G. Gorbunova, Alexander B. Sorokin

Mechanistic insights into carbene transfer catalyzed by transition metal tetrapyrroles: bridging spectroscopy and theory

10:50 to 11:10 Invited Lecture

Artur Mardyukov *(Institute of Organic Chemistry, Justus Liebig University, Giessen, Germany)*

Unconventional Pnictogen–Nitrogen Species as Building Blocks for Molecular Materials

11:10 to 11:30

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

Molecular structure and thermodynamic properties of tetrapyrrole macrocycle complexes

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Friday, 3 July - *Afternoon*

6. aza-BODIPYs and their analogs

Floor 3 : Conference Room D

Chaired by Victor Nemykin & Christopher Ziegler

14:00 to 14:20 Invited Lecture

Andrew Neil Cammidge *(University of East Anglia, Norwich, United Kingdom)*, Isabelle Chambrier, Bandar Alshammari, Aishah Alzahrani, Ibtesam Mashnoy, David Hughes

Aza-Dipyrromethene and Aza-BODIPY analogues; extended systems and diverse complexation chemistry

14:20 to 14:40 Invited Lecture

Toshifumi Iimori *(Muroran Institute of Technology, Muroran, Japan)*, Md. Bulu Rahman, Victoria Villarreal, Victor Nemykin

Electroabsorption Spectroscopy of BOPHY Derivatives: Probing Charge Transfer Character in the Excited State

14:40 to 15:00 Invited Lecture

Yuji Kubo *(Department of Applied Chemistry, Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University, Hachioji, Japan)*

π-Expanded BODIPYs for Applications in Photocatalysis and Photodetection

15:00 to 15:20 Invited Lecture

Francisco Raymo *(University of Miami, Coral Gables, USA)*

Photoactivation of BODIPY fluorescence with green light

15:20 to 15:40 Invited Lecture

Soji Shimizu *(Kyushu University, Fukuoka, Japan)*

Far-Red and SWIR aza-BODIPY Oligomers and Their Photothermal Properties

15:40 to 16:00 Invited Lecture

Maria da Graca Vicente *(Louisiana State University, Baton Rouge, USA)*, Simran Dhingra, Mistura Olajuwon, Petia Bobadova, Frank Fronczek, Kevin Smith

Synthesis and Properties of 1,3,5,7-Tetraphenyl-aza-BODIPYs Functionalized with Electron-withdrawing or Donating Groups

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

FRIDAY PM

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7. Functional porphyrinoids for health applications and sustainability

Floor 1 : Terrsa Hall

Chaired by Claude Gros, Mathias Senge & Kevin Smith

14:00 to 14:20 Invited Lecture

Jonathan Lindsey *(NC State University, Raleigh, USA)*, Duy Chung

Some results concerning tetrapyrrole synthesis methods

14:20 to 14:40 Invited Lecture

Doris Kunz *(Institut für Anorganische Chemie, University of Tübingen, Tübingen, Germany)*, Benedikt Distel, Viola Munzert, Malin Moya Llasat, Theo Maulbetsch

Carbenaporphyrinoid Complexes of Coinage Metals and Zinc

14:40 to 15:00 Invited Lecture

Nitika Grover *(Birla Institute of Technology and Science (BITS), Pilani, India)*

Synthesis and Photophysical Analysis of BODIPY-DPM Conjugates

15:00 to 15:20 Invited Lecture

Sébastien Richeter *(Institut Charles Gerhardt Montpellier, Montpellier, France)*, Sébastien Clément, Jean-François Longevial, Ludivine Poyac, Dimitri Dessaint

Overview of Molecular Systems Combining Porphyrins and N-Heterocyclic Carbenes and their Applications

15:20 to 15:40 Invited Lecture

Nicolas Desbois *(Université Bourgogne Europe, ICMUB UMR CNRS 6302, Dijon, France)*, Gaëlle Divoux, Matthias Roux, Marc Sautour, Stéphane Brandés, Claude P. Gros

Design and Evaluation of the Antimicrobial Activity of New Corroles and Porphyrins Functionalized with Carboxylic or Phosphonic Acids

15:40 to 16:00 Invited Lecture

Max von Delius *(Ulm University, Ulm, Germany)*

Using Molecular (Porphyrin) Rings to Functionalize Carbon Allotropes and Create Few-Qubit Architectures

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

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9. NIR-responsive porphyrinoids

Floor 3 : Large Conference Room A + B

Chaired by Harry Anderson, Taniyuki Furuyama & Yoshihiro Matano

14:00 to 14:20 Invited Lecture

Till Opatz *(Johannes Gutenberg University Mainz, Mainz, Germany)*, Caroline Grundke, Rodrigo Silva, Winald Kitzmann, Katja Heinze, Kleber de Oliveira

Photochemical [alpha]-Aminonitrile Synthesis Using Zn-Phthalocyanines as Near-Infrared Photocatalysts

14:20 to 14:40 Invited Lecture

Prashanth K. Poddutoori *(Department of Chemistry and Biochemistry, University of Minnesota Duluth, Duluth, USA)*, Peyton Ellis, Abby Kothman, Jam R. Hamza, Jatan K. Sharma, Paul A. Karr, Art van der Est, Francis D'Souza

Synthesis and Spectroscopy of Hypervalent P(V) and Sb(V) Porphyrins with Charge Transfer NIR Transitions

14:40 to 15:00 Invited Lecture

Hiroshi Shinokubo *(Nagoya University, Nagoya, Japan)*

π-Expanded Norcorroles as NIR Absorbing Dyes

15:00 to 15:20 Invited Lecture

Jishan Wu *(National University of Singapore, Singapore, Singapore)*

Porphyrinoid-Based Molecular Cages and [2]Catenanes

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

FRIDAY PM

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16. Organic electronics and sensors

Floor 3 : Large Conference Room C

Chaired by Marcel Bouvet, Corrado Di Natale, Benoît Lessard & Hiroko Yamada

14:00 to 14:20 Invited Lecture

Corrado Di Natale *(University of Rome Tor Vergata, Rome, Italy)*, Rosamaria Capuano, Valerio Allegra, Alexandro Catini, Gabriele Magna, Roberto Paolesse

Porphyrin-conductive polymer hybrids for high sensitive and selective detection of volatile compounds

14:20 to 14:40 Invited Lecture

Junko Aimi *(National Institute for Materials Science, Tsukuba, Japan)*

Star-Shaped Polymers with a Phthalocyanine Core for Organic Memory Devices

14:40 to 15:00 Invited Lecture

Gabriele Magna *(Tor Vergata University of Rome, Rome, Italy)*, Melanie Cyr, Francesco Pizzoli, Jaclyn L. Brusso, Benoit H. Lessard, Corrado Di Natale, Roberto Paolesse

Electropolymerized Phthalocyanines and Corroles: Tunable Porphyrinoid Polymers for Chemical Sensing

15:00 to 15:20 Invited Lecture

Abhishek Kumar *(Centre SPIN, Saint Etienne, France)*, Marcel Bouvet, Charles Devillers, Mathilde Rieu

Porphyrinoids as functional molecules for application in gas sensors

15:20 to 15:40 Invited Lecture

Tamara Basova *(Nikolaev Institute of Inorganic Chemistry, SB RAS, Novosibirsk, Russia)*

Metal phthalocyanines and their hybrid structures as active layers of chemiresistive gas sensors

15:40 to 16:00 Invited Lecture

Marcel Bouvet *(Université Bourgogne Europe, Dijon, France)*

Ambipolar Porphyrinoid-Based Gas Sensors: Inversion of Polarity Through External Stimuli

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

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22. Solar cells and fuels

Floor 2 : Seminar Rooms 1 + 2

Chaired by Hiroshi Imahori & Fabrice Odobel

14:00 to 14:20 Invited Lecture

Hiroshi Imahori *(Kyoto University, Kyoto, Japan)*

Engineering Porphyrins and Redox Mediators for Enhanced Dye-Sensitized Solar Cell Performance

14:20 to 14:40 Invited Lecture

Ruben Caballero *(University of Castilla-La Mancha, Toledo, Spain)*, Lina Fernanda Castaño, Pilar de la Cruz

Porphyrins in Third-Generation Organic Solar Cells: Architectural Insights and Design Strategies

14:40 to 15:00 Invited Lecture

Ching-Yao Lin *(Department of Applied Chemistry, National Chi Nan University, Puli, Taiwan)*, Ming-Chi Tsai, Hung-Ming Chang, Shao-Wei Hong, Ren-Bao Wu, Ming-Sin Liu, Chien-Lin Li, Sheng-Ting Wu, Hua-An Liu

Bacteriochlorins and Porphyrin-Bacteriochlorin Dimers for Solar Cell Applications

15:00 to 15:20 Invited Lecture

Chengjie Li *(East China University of Science and Technology, Shanghai, China)*, Conglin Liu, Yuquan Hu, Yinglong Li, Jiazhi Zou, Jiaxin Luo, Xueyan Wang, Yuqing Wang, Zhemin Li, Yingying Chen, Qingjun Lu, Kaiwen Zeng, Yongshu Xie

Porphyrin dyes for fabrication of highly efficient DSSCs: A concerted companion strategy

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

FRIDAY PM

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31. Development of advanced photosensitizers

Floor 2 : Medium Conference Room

Chaired by Yutaka Amao & Pui-Chi Lo

14:00 to 14:20 Invited Lecture

Yutaka Amao *(Research Centre for Artificial Photosynthesis, Osaka Metropolitan University, Osaka, Japan)*

Medicinal Precursor Synthesis from Carbon Dioxide with Zinc Porphyrin/ATP-NADH Dependent Biocatalysts Hybrid System

14:20 to 14:40 Invited Lecture

Miffy Hok Yan Cheng *(University of British Columbia, Vancouver, Canada)*

Porphyrinoid Nanomedicines for Advanced Theranostics

14:40 to 15:00

Miloslav Macháček *(Charles University, Faculty of Pharmacy, Department of Biochemical Sciences, Hradec Králové, Czech Republic)*, Ingrid Hlbočanová, Pavlína Vávrová, Khaoula Lmcharrag, Klára Konečná, Magdaléna Kozlíková, Monika Rohlícková, Veronik Nováková, Petr Zimčík

Charged Zinc Phthalocyanines – are they suitable for PDT, VTP, PCI, or PDI?

39. Chemistry and biology of natural porphyrinoid pigments

Floor 3 : Conference Room 2

FRIDAY PM

Chaired by Bernhard Kräutler & Hitoshi Tamiaki

12:10 to 12:30 Invited Lecture

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

Asymmetrically Coordinated Chlorophylls in Natural and Artificial Systems

12:30 to 12:50 Invited Lecture

Yusuke Tsukatani *(Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokosuka, Japan)*

The function and evolutionary diversity of chlorophyll biosynthetic enzymes that determine pigment specificity

12:50 to 13:10 Invited Lecture

Makiko Kosugi *(National Institute for Basic Biology, Okazaki, Japan)*, Keisuke Saito, Yusuke Yoneda, Masato Kawasaki, Yutaka Shibata, Kojiro Hara, Shinichi Takaichi, Toshio Moriya, Naruhiko Adachi, Yasuhiro Kamei, Yasuhiro Kashino, Sakae Kudoh, Hiroyuki Koike, Toshiya Senda, Hikaru Kuramochi, Hiroshi Ishikita, Jun Minagawa

Far-Red Light-Harvesting Chl a/b Binding Protein Complex Allows Uphill Energy Transfer for Photosynthesis in an Antarctic Alga

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14:00 to 14:20 Invited Lecture

Haruki Yamamoto *(Nagoya University, Nagoya, Japan)*, Kai Funahashi, Yuki Tsuzuki, Sorachi Katayama, Ibuki Takahashi Y., Ryo Nagao, Yuichi Fujita

Plasticity of Pigment Composition and Spectroscopic Properties in Photosystem I of Acaryochloris marina Induced by Oxygen-Dependent Regulation of Chlorophyll d Biosynthesis

14:20 to 14:40 Invited Lecture

Min Chen *(The University of Sydney, Sydney, Australia)*

Red-shifted chlorophylls and their containing organisms: Current status

14:40 to 15:00 Invited Lecture

Gunhild Layer *(Institute of Pharmaceutical Sciences / University of Freiburg, Freiburg, Germany)*, Anika Guther, Sam Washington

Radical SAM enzymes in heme and heme d1 biosynthesis

15:00 to 15:20 Invited Lecture

Andrew Lawrence *(University of Southampton, Southampton, United Kingdom)*

Biosynthesis of the Cobalamin Lower Base

15:20 to 15:40 Invited Lecture

Markus Ruetz *(University of Michigan, Ann Arbor, USA)*, Ruma Banerjee

Enzyme under Siege: Mechanistic Insights into the Inhibition of Vitamin B_{12} Dependent Methylmalonyl CoA Mutase

15:40 to 16:00 Invited Lecture

Felix Zelder *(University of Zurich, Zurich, Switzerland)*

Metal Substitution and Bioactivity in Vitamin B_{12} Derivatives: From Biomimetic Catalysis to Antimicrobial Function

16:00 to 16:15

Coffee Break

16:15 to 17:15

SPP Meeting & Closing Ceremony (Terrsa Hall)

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43. Contributed - Biomedical

Floor 2 : Medium Conference Room

Chaired by Fabienne Dumoulin

15:00 to 15:10

Elena Gorbunova *(Lomonosov Moscow State University, Moscow, Russia)*, Alina Agranat, Tatiana Dubinina

Isoamyloxy-substituted phthalocyanine complexes: synthesis, solubilization and photodynamic activity in vitro

15:10 to 15:20

Giulia Kassab *(Princess Margaret Cancer Centre/University Health Network, Toronto, Canada)*, Juan Chen, Gang Zheng

Overcoming drug delivery challenges in antimicrobial photodynamic therapy

15:20 to 15:30

Yuta Takano *(Hokkaido University, Sapporo, Japan)*, Kushal Mohan Gowda, Yasuko Osakada, Mamoru Fujitsuka, Vasudevanpillai Biju

Oligoglucosamine as a Biomass-Derived Aqueous Platform for Metalloporphyrin Photosensitizers

15:30 to 15:40

Marina Volostnykh *(Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Polina Demina, Kirill Khaydukov, Elizaveta Ermakova, Anastasia Dushina, Roman Akasov, Yulia Gorbunova

Pd(II) Porphyrin-UCNP Hybrid Biocompatible Systems: Design and Structural Features

15:40 to 15:50

Daniel Ziental *(Poznań University of Medical Sciences, Poznań, Poland)*, Jolanta Dlugaszewska, Eduardo Anaya Plaza, Andrés de la Escosura, Tomás Torres, Ana Belén Domínguez, M. Salomé Rodríguez-Morgade, Lukasz Sobotta

Assessment of cationic phthalocyanines and doxycycline against resistant microbes – innovative approach or dead end?

16:00 to 16:15

Coffee Break

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Poster Presentations

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Specialty Chemicals

Poster Session 1

Tuesday, 30 June : *18:30 - 20:30*

Floor 2 :

Seminar Room 3 - **S01-01** *to* **S06-06**
Conference Room 9 - **S06-07** *to* **S07-04** *and* **S28-01** *to* **S31-06**
Training Room - **S31-07** *to* **S39-03**

Synthesis

01. Emergence of novel fused and strained porphyrinoids: Synthesis and structures
02. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications
03. Corroles
04. Carbaporphyrinoids with N-confusion and fusion
05. Synthesis and properties of porphyrinoids
06. aza-BODIPYs and their analogs
07. Functional porphyrinoids for health applications and sustainability

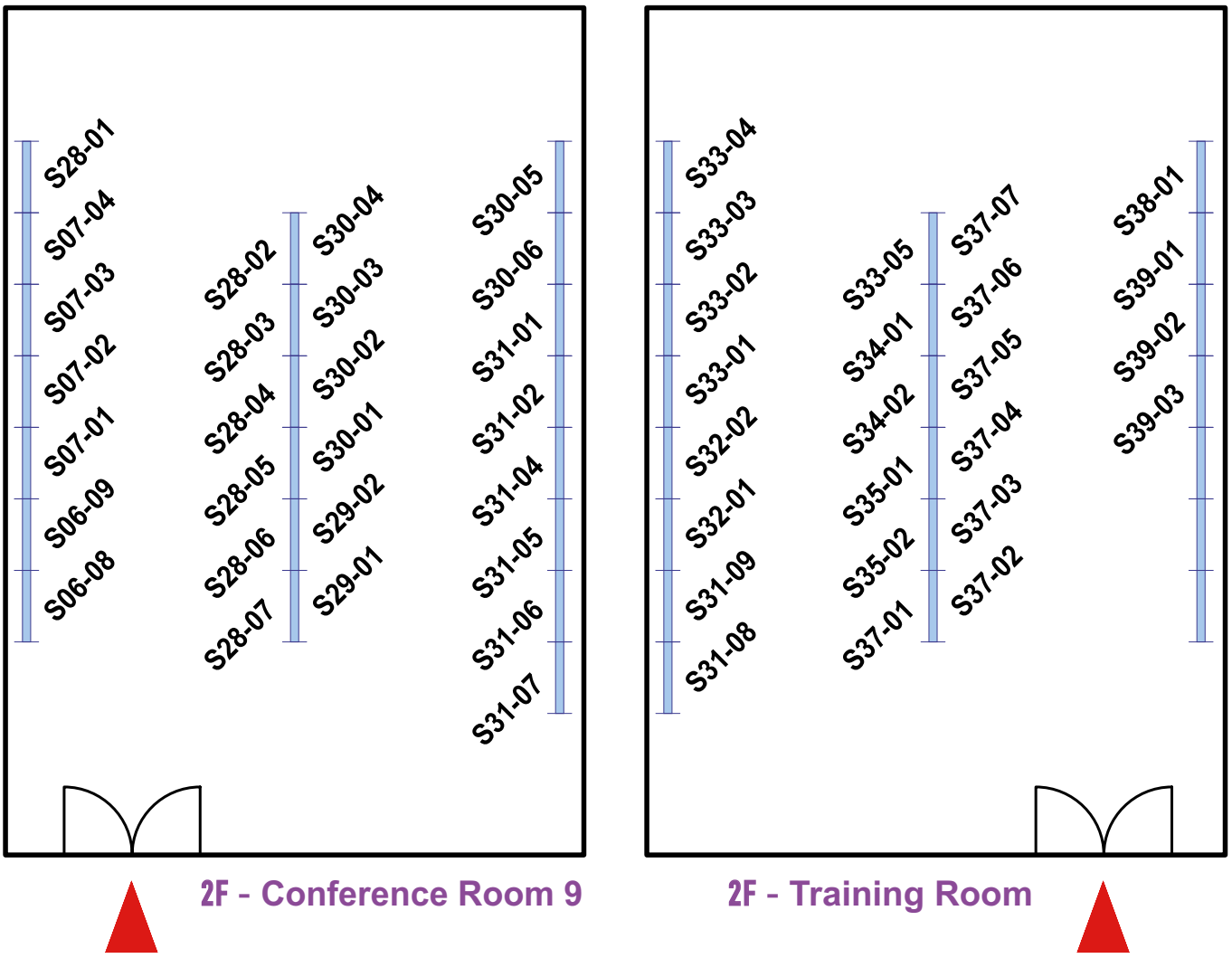
Biomedical

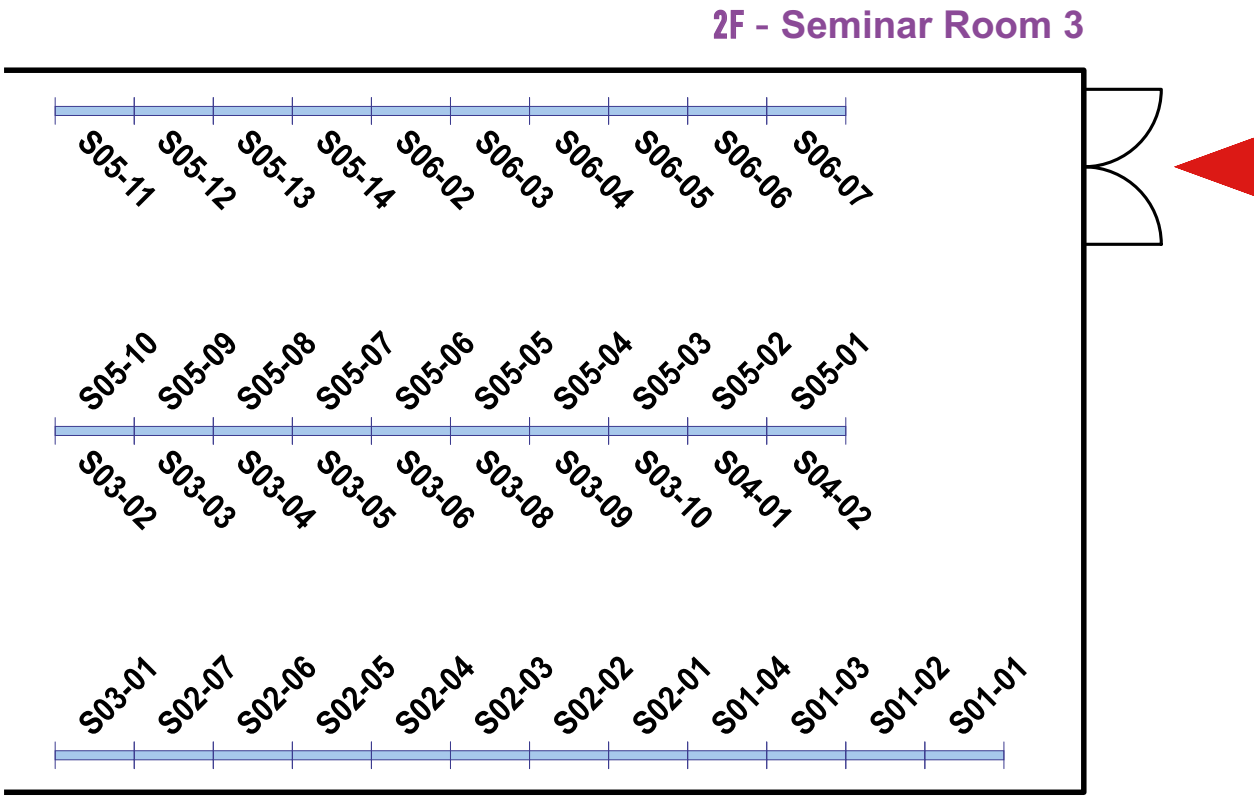
28. Activatable probes for cancer imaging and therapy
29. Health and sustainability
30. Functional chromophores for sensing and imaging
31. Development of advanced photosensitizers
32. Photoimmunotherapy
33. Porphyrinoids in photomedicine

Biochemistry

34. Heme proteins and synthetic analogues
35. Catalysis in natural and biosynthetic heme proteins
37. Heme enzymes: Structure and function
38. Chemistry and biology of corrinoids and related compounds
39. Chemistry and biology of natural porphyrinoid pigments

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1. Emergence of novel fused and strained porphyrinoids: Synthesis and structures

S01-01

Gentaro Honda *(Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Japan, Sapporo, Hokkaido, Japan)*, Keita Watanabe, Yuki Ide, Yasuhide Inokuma

Peripheral and axial functionalization of superacid-resistant macrocyclic BODIPYs

S01-02

Yoh Kumagai *(Department of Molecular Engineering, Graduate School of Engineering, Kyoto University, Kyoto city, Japan)*, Takayuki Tanaka, Shu Seki

Modulated Vibronic Coupling in Deuterated Tetraaza[8]circulenes

S01-03

Oto Ooyama *(Graduate School of Science, The University of Osaka, Osaka-shi, Japan)*, Yuki Shibata, Ken-ichi Yamashita, Shohei Saito

Synthesis of Triangular Porphyrin Oligomers toward the Construction of Supramolecular Graphene

S01-04

SK Jiyaur Rahaman *(Jagiellonian University, Krakow, Poland)*, Krzysztof Dzieszkowski, Monika Kijewska, Ludovic Favereau, Miłosz Pawlicki

Inducing Helical Handedness in π- Extended Macrocycles via Axial Chirality Transfer.

2. Subphthalocyanine and related contracted porphyrinoids: Advances in their chemistry and applications

S02-01

Mikhail Belousov *(Lomonosov Moscow State University, Moscow, Russia)*, Maria Ivanova, Tatiana Dubinina

Carbazole-fused boron subporphyrazines: synthesis, photophysical properties and in vitro cytotoxicity

S02-02

Alina M. Fazlyeva *(Research Institute of Macroheterocyclic Compounds, Ivanovo, Russia)*, Karina R. Romanova, Ivan A. Skvortsov, Pavel A. Stuzhin

Coumarin-Annulated Subporphyrazine: Synthesis and Photophysical Properties

S02-03

Alina M. Fazlyeva *(Research Institute of Macroheterocyclic Compounds, Ivanovo, Russia)*, Karina R. Romanova, Ivan A. Skvortsov, Pavel A. Stuzhin

Alcoholysis of Perfluorinated Boron(III) Subphthalocyanine Leading to Diazatripyrrins (DATRIPYs)

S02-04

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

Bowl-to-Bowl Inversion in Subphthalocyanines: SN_2 vs. SN_1 Pathways at a Tetracoordinate Boron

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S02-05

Juan Laforga-Martín *(Department of Organic Chemistry, Universidad Autónoma de Madrid, Madrid, Spain)*, Jorge Labella, Tomás Torres

Driven by Geometry: Subphthalocyanines in Supramolecular Polymer Design

S02-06

Pavel A. Stuzhin *(Ivanovo State University of Chemistry and Technology, Ivanovo, Russia)*, Ekaterina Gnedina, Dmitriy A. Lazovskiy, Ivan A. Nikitin

Contracted and azaanalogues of peripherally carboxylated phthalocyanine

S02-07

Lorena Vogt *(University of Kassel, Kassel, Germany)*, Anika Petersen, Valeska Viereck, Frank Abendroth, Olalla Vázquez, Rüdiger Faust

Thermally Controlled Singlet Oxygen Storage and Release from a SubPc-Pyr-Dyad in HeLa Cells

3. Corroles

S03-01

Nicolas Desbois *(Université Bourgogne Europe, ICMUB UMR CNRS 6302, Dijon, France)*, Gaëlle Divoux, Margerie Loze, Laurie André, Stéphane Brandès, Claude P. Gros

Development of new building blocks based on phosphonic acid corroles for the preparation of porous materials for gas detection

S03-02

Alessia Fata *(Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Rome, Italy)*, Sara Nardis, Francesco Pizzoli, Frank R. Fronczek, Kevin M. Smith, Roberto Paolesse

Synthesis of iron-N-methyl corroles

S03-03

Jonas Fehler *(Julius-Maximilians-Universität Würzburg, Institute of Inorganic Chemistry and Institute for Sustainable Chemistry & Catalysis with Boron (ICB), Würzburg, Germany)*, Lukas Swoboda, Vivien Schütz, Holger Helten

Aromatic Boratetraoxacorroles: A Mirror Image of Antiaromatic Boracorrole

S03-04

Marcelo Fernandez de la Mora *(Technion -- Israel Institute of Technology, Haifa, Israel)*

Affecting the Properties of the Parent-Corrole Cobalt Complexes by Axial Ligands

S03-05

Claude P. Gros *(Université Bourgogne Europe, ICMUB - UMR CNRS 6302,, Dijon, France)*, Shivani Kessavdjee-Djouma, Nicolas Desbois, Haziq Naseer Khan, Tomas Moravec, Nguyet-Thanh Ha Duong

Virus-based adducts encapsulating corroles macrocycles to fight viral infections

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S03-06

Claude P. Gros *(Université Bourgogne Europe, ICMUB - UMR CNRS 6302,, Dijon, France)*, Laurie André, Margerie Loze, Ken Rapady, Gaëlle Divoux, Nicolas Desbois, Stéphane Brandès, Meddy Vanotti, Virginie Blondeau-Patissier

Porous structures based on cobalt corroles for the selective detection of carbon monoxide

S03-08

Bastian Kraul *(IAAC, TU Braunschweig, Braunschweig, Germany)*, Johannes Zurwellen, Marla Brandtstäter, Anastasiia Riabchunova, Stefanie Tschierlei, Martin Bröring

How to: Tin Corrole Photosensitisers

S03-09

Hendrik Peters *(TU Braunschweig IAAC, Braunschweig, Germany)*, Martin Bröring

Arsenic Corroles

S03-10

Wolfgang Schöfberger *(Institute of Organic Chemistry, Johannes Kepler University Linz, Linz, Austria)*, Adrian Dorniak, Sankit Vala, Simon Offenthaler

Low-Temperature Mechanochemical Synthesis of A3-Corroles and A4-Porphyrins

4. Carbaporphyrinoids with N-confusion and fusion

S04-01

Saori Okamura *(Tokyo Metropolitan University Department of Chemistry, Graduate School of Science, Hachioji, Japan)*, Masatoshi Ishida

Redox-induced Aromaticity Switching in Doubly N-Confused Bilatriene Pd(II)/Pt(II) Complexes

S04-02

Kinga Szydełko *(University of Wrocław, Faculty of Chemistry, Wrocław, Poland)*, Michał J. Białek, Piotr J. Chmielewski

Chemical Switching of Aromaticity in N-Confused Porphyrin Complexes

5. Synthesis and properties of porphyrinoids

S05-01

Md Ashif Ali *(Yonsei University, Seoul, Korea)*, Woo-Dong Jang, Dongho Kim

From Aromaticity to Catalysis: Symmetry-Driven Electronic Structure Modulation in Functional Macrocycles

S05-02

Umit Isci *(Marmara University, Department of Metallurgical and Materials Engineering, Istanbul, Turkey)*, Zeynel Sahin, Filippo Monti, Daniele Veclani, Barbara Ventura, Fabienne Dumoulin

Adamantane vs cyclohexane: how the bulkiness of phthalocyanines' substituents affects their properties

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S05-03

Hyeon-Seok Jeong *(Department of Chemistry, Inha University, Incheon, Korea)*, Yoon-Hee Lee, Sung-Wook Choi

Quinoliporphyrin as an Aromatic Monoanionic Porphyrinoid and Its Degradation Promoted by Cu^{2+}

S05-04

Satoshi Kato *(Graduate School of Engineering, Nagoya University, Nagoya, Japan)*, Hideaki Takano, Hiroshi Shinokubo

Synthesis and Properties of 10-Isocorrole Metal Complexes

S05-05

Pak Lun Lam *(The Hong Kong Polytechnic University, Hong Kong SAR, China)*, Ho-Fai Chau, Wing-Sze Tam, Waygen Thor, Yik-Hoi Yeung, Hei-Yui Kai, Yue Wu, Ka-Leung Wong

Combining Pyrrole Chemistry with Solid-phase Peptide Synthesis: Modular Approaches for Peptide Multifunctionalization

S05-06

Angelina Liu *(Seaquam Secondary School, Delta, Canada)*, Runchang Liu

Chlorination of N-confused porphyrin

S05-07

Nela Malatesti *(Faculty of Biotechnology and Drug Development, Rijeka, Croatia)*, Martina Mušković Lukić, Martin Lončarić, Nikola Basarić, Ivana Ratkaj

Photophysics and Hyperporphyrin Effect of New Porphyrins with N,N-Diethylaminophenyl and Acetamidophenyl Groups

S05-08

Mohini Mittal *(Department of Chemistry, IISER BHOPAL, BHOPAL, India)*, Sameeksha Agarwal, Pradeep Kumar Mondal, Jeyaraman Sankar

Porphyrin–Carbazole Architectures: From Selective Fullerene Recognition to Topologically Interesting Chiral Macrocycles

S05-09

Marina Polovkova *(IPCE RAS, Moscow, Russia)*, Inessa Efimova, Evgeniya Safonova, Roman Akasov, Aslan Tsivadze, Yulia Gorbunova

Tuning Cytotoxic Properties of Phosphorus(V) Porphyrins for Biomedical Applications

S05-10

Obed Rodriguez Perez *(Aalto University, Espoo, Finland)*, Daniel Langerreiter, Eduardo Anaya Plaza, Sandra Kaabel

A Greener Route to Blue: Solid-State Synthesis and Functionalization of Phthalocyanines

S05-11

Maximilian Schrodt *(Institute of Inorganic Chemistry, Heidelberg University, Germany, Heidelberg, Germany)*, Markus Enders

Monomer vs Dimer – Solvation and Aggregation Behaviour of two Octo-Carbazole Substituted Iron Phthalocyanines

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S05-12

Gayathri Sekar *(Indian Institute of Technology, Bombay, Mumbai, India)*

Synthesis of β-Terpyridinyl Triphyrin(2.1.1) and its coordination chemistry

S05-13

Akrti Sharma *(Indian Institute of Technology Bombay, Mumbai, India)*, Mangalampalli Ravikanth

Synthesis of β-Substituted Meso-Tetraaryl Triphyrin(2.1.1)s and Covalently Linked Triphyrin(2.1.1)-Porphyrin Dyads

S05-14

Dilara Sipahioglu *(Graduate School of Natural and Applied Sciences, Department of Biomedical Engineering, Acibadem University, Istanbul, Turkey)*, Fabienne Dumoulin

Synthetic Strategies Towards Phthalocyanine–Lipoic Acid Conjugates

6. aza-BODIPYs and their analogs

S06-02

Renu Bishnoi *(Indian Institute of Technology Gandhinagar, Gandhinagar, India)*

Aza-BODIPY-based imaging Biomarkers for anti-cancer applications

S06-03

Daniil N. Finogenov *(Research Institute of Macroheterocyclic Compounds, Ivanovo, Russia)*, Nikolay E. Galanin, Roman A. Novikov, Taisia A. Rumyantseva, Pavel A. Stuzhin

Benzo-, pyridino- and pyrazino-annulated unsymmetrical BODIPY analogues: effect of aza-substitution on physicochemical properties

S06-04

Daniil N. Finogenov *(Aza-BODIPY Analogues: Effect of Substituents in the Fused Rings (Benzene|Pyrazine) on Z,E-Isomerism, Spectral and Electrochemical Properties, Ivanovo, Russia)*, Alexander A. Kalyagin, Dominika Yu. Parfyonova, Pavel A. Stuzhin

Aza-BODIPY Analogues: Effect of Substituents in the Fused Rings (Benzene|Pyrazine) on Z,E-Isomerism, Spectral and Electrochemical Properties

S06-05

Shuhei Fukami *(Department of Applied Chemistry, Graduate School of Engineering, Fukuoka, Japan)*, Takanori Iwasaki, Soji Shimizu

Synthesis of Butadiyne-Linked Cyclic Pyrrolopyrrole aza-BODIPY Oligomers via Platinum Coordination

S06-06

Edward Gilbreth *(University of Tennessee, Knoxville, USA)*, Victor Nemykin

Pyridine Functionalized Aza-BODIPY for use as non-Fullerene Electron Acceptors

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S06-07

Alexander A. Kalyagin *(Institute of Solution Chemistry, , Russian Academy of Sciences, Ivanovo, Russia)*, Alexander A. Goncharenko, Daniil N. Finogenov, Alexander A. Ksenofontov, Elena V. Antina, Mikhail B. Berezin, Pavel A. Stuzhin

Ultralong Room-Temperature Phosphorescence of BODIPY Dye into Matrix

S06-08

John Mack *(Tebello Nyokong Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa)*, Temlandvo Magwaza, Nthabeleng Molupe, Yolande Openda, Tebello Nyokong

The photodynamic antimicrobial chemotherapy activities of azaBODIPY dyes and their gold nanoparticle conjugates

S06-09

Lluisa Perez-Garcia *(Universitat de Barcelona, Barcelona, Spain)*, Ruxin Li, Sharanabasava D Hiremath, Saman Bagherpour

Mitochondria-Targeted BODIPY Fluorophores for Selective Sensing of Glutathione and Chloride Ion Dynamics

7. Functional porphyrinoids for health applications and sustainability

S07-01

Kim Hyun Woo *(The Catholic University of Korea, Bucheon-si, Korea)*

ROS-Regulating Hydrogel-Based Platform Coating to Enhance Stem Cell Function

S07-02

Nuno M. M. Moura *(University of Aveiro, Aveiro, Portugal)*, Chahrazad El Abiad, Smaail Radi, M. Amparo F. Faustino, M. Graça P. M. S. Neves

Development of porphyrin-silica adsorbents for efficient toxic metal ions removal from industrial wastewater

S07-03

Lukasz Sobotta *(Department of Inorganic and Analytical Chemistry, Poznan University of Medical Sciences, Poznan, Poland)*

Zinc Phthalocyanine and Gadolinium Co-Loaded Liposomes as a Platform for Magnetic Resonance Imaging and Photodynamic Treatment

S07-04

Yik-Hoi Yeung *(Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China)*

Bimetallic porphyrin PET radiotracers for Low-Dose MRI contrast enhancement

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28. Activatable probes for cancer imaging and therapy

S28-01

Shivani *(Indian Institute of Technology Roorkee, IIT ROORKEE, India)*

β-Substituted Phthalimide Porphyrins as Redox-Active Anticancer Agents Against HeLa Cells

S28-02

Saswati Adhikary *(WPI-ICReDD, Hokkaido University, Sapporo, Japan)*, Akari Mukaimine, Mikako Ogawa

New Near-Infrared Photoimmunotherapeutic (NIR-PIT) Drugs for Anti-Cancer Treatment

S28-03

Zhaolin Chen *(Chemistry, Hong Kong, China)*, Yunong Xie, Minghe Zhang, Man Tong, Evelyn Y. Xue

Cyclodextrin-Conjugated Phthalocyanines as Tumor-Targeting and Renal-Clearable Photosensitizers for Photodynamic Therapy

S28-04

Hosoowi Lee *(Department of Chemistry & Nanoscience / Ewha Womans University, Seoul, Korea)*, Juyoung Yoon

Tunable Photodynamic Efficiency in Porphyrin Nanoparticles via Polymorphism-like Molecular Packing

S28-05

Ivonne R. Lopez-Miranda *(University of Toronto, Oakville, Canada)*, Andrew A. Beharry

Photo-caged β-Lapachone Prodrugs

S28-06

Shuai Wang *(The Chinese University of Hong Kong, Hong Kong, China)*, Qingshuang Zou, Dennis K. P. Ng

Epidermal Growth Factor Receptor-Mediated Double-Gated Bioorthogonal Activation of Photosensitizers for Targeted Photodynamic Therapy

S28-07

Jiaen Xie *(Chemistry, Hong Kong, China)*, Meijun Wang, Xiaoyan Cui, Kwan T. Chow, Pui-Chi Lo

Regulating Cell Death Induced by Photodynamic Therapy with Phthalocyanine through Incorporation on a Zeolitic Imidazolate Framework

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29. Health and sustainability

S29-01

Dorota Chelminiak-Dudkiewicz *(Faculty of Chemistry, Nicolas Copernicus University in Toruń (Poland), Torun, Poland)*

Chitosan-based sponge loaded with zinc phthalocyanine as a multifunctional wound dressing material

S29-02

Luis Arnaut *(University of Coimbra, Coimbra, Portugal)*, Carlos Serpa, Fábio M. S. Rodrigues, Amanda Rocha, Kate C. Blanco, Anderson Zanchin, Mariette M. Pereira, Vanderlei S. Bagnato

Prevention of pneumonia with functionalized endotracheal tubes and antimicrobial photodynamic therapy

30. Functional chromophores for sensing and imaging

S30-01

Nitika Grover *(Birla Institute of Technology and Science (BITS), Pilani, Pilani, India)*, Harshita Saroj, Pankaj Arora

Electronically Tuned Dipyrromethene and BODIPY Platforms for Selective Fluoride and Cyanide Detection

S30-02

Caroline Gwaro *(Louisiana State University, Baton Rouge, USA)*, Caroline Ndung'u, P etia Bobadova-Parvanova, Dylan Goliber, Quynh Do, Ashley R. Walker, Evan Murders, Daniel LaMaster, Frank R. Fronczek, Jayne Garno, Maria da Graça H. Vicente

Versatile Nitration of BODIPY Dyes Using NO_2BF_4: Effects of Nitro Substituents on Spectroscopic and Self-Assembly Properties

S30-03

Jan Labuta *(National Institute for Materials Science (NIMS), Tsukuba, Japan)*, Shinsuke Ishihara, Jonathan P. Hill

NMR Detection of Enantiomeric Excess w/o Formation of Diastereomers using Prochiral Solvating Agents (pro-CSAs)

S30-04

Jan Labuta *(National Institute for Materials Science (NIMS), Tsukuba, Japan)*, Nadiia Velychkivska

Phase-Separable and pH-Sensitive Star-Shaped Porphyrin-PNIPAM Conjugates

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S30-05

Mitsuhiko Morisue *(Kyoto Institute of Technology, Kyoto, Japan)*, Masashi Yamaguchi, Takahito Shibahara, Hiroaki Harada, Ken-ichi Yuyama, Masashi Nakamura, Yukiyasu Kashiwagi, Hiroyasu Masunaga, Sono Sasaki, Munetaka Iwamura, Koichi Nozaki, Tatsuo Taniguchi

Interface-Induced Modulation of Fluorescence in Liquid and Semicrystalline BODIPYs

S30-06

Sebastian Oloo *(Chemistry/Louisiana State University, Baton Rouge, USA)*, Petia Bobadova-Parvanova, Alexis Lueders, Mina Kim, Frank Fronczek, Kevin Smith, Maria da Graça Vicente

Post-Synthetic Diversification of BOPPY Fluorophores via Cross-Coupling and Nucleophilic Substitution Strategies

31. Development of advanced photosensitizers

S31-01

Stefan Bednarik *(Charles University, Faculty of Pharmacy, Hradec Kralove, Czech Republic)*, Dorota Chełminiak-Dudkiewicz, Klara Konecna, Magdalena Kozlikova, Jiri Demuth, Petr Zimcik, Veronika Novakova, Miloslav Macháček

Photoactive materials suitable for antimicrobial photodynamic therapy

S31-02

Elena Gorbunova *(Lomonosov Moscow State University, Moscow, Russia)*, Alina Agranat, Andrey Sybachin, Karina Kisliak, Tatiana Dubinina

Aryloxy-substituted phthalocyanines: synthesis, photophysical properties and in vitro photodynamic activity

S31-04

Yu Min Jang *(Department of Biomedical-Chemical Engineering, The Catholic University of Korea, Bucheon, Korea)*

Photo-activated Adipose-Derived Stem Cells with Improved Paracrine Immunomodulation for Inflammatory Bowel Disease

S31-05

Giulia Kassab *(Princess Margaret Cancer Centre, University Health Network, Toronto, Canada)*, Caitlyn Lee, Juan Chen, Wenfang Sun, Gang Zheng

Heteroleptic Iridium Complexes show unmatched potency as antimicrobial photosensitizers for hard-to-treat bacterial and fungal infections

S31-06

Nuno M. M. Moura *(University of Aveiro, Aveiro, Portugal)*, Melani J. A. Reis, Cátia Vieira, M. Graça P. M. S. Neves, Adelaide Almeida, M. Amparo F. Faustino

A_2B_2-Type porphyrins bearing nitrogen-donor units: Synthesis and photo-antibacterial efficiency

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S31-07

Nidhi Nehra *(Faculty of Pharmacy, Hradec Kralove, Charles University, Hradec Kralove, Czech Republic)*, Veronika Novakova, Petr Zimcik

NIR Absorbing BODIPY-Flavonol Conjugates as CO Releasing Molecules

S31-08

Leon David Rodrigues *(Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Králové, Czech Republic)*, Veronika Novakova

Synthesis of Low-Symmetrical Silicon Phthalocyanines for Photodynamic Therapy

S31-09

Nele Theysmans *(Hasselt University, Hasselt, Belgium)*, Mathias Fraiponts, Greta Sambucari, Thomas Leendertse, Alessia Pancaro, Lisa Reynders, Jasper Deckers, Barbara Patrizi, Kristof Van Hecke, Laurence Lutsen, Anitha Ethirajan, Mariangela di Donato, Benoît Champagne, Wouter Maes

Integrating Twisted and Push-Pull Structural Motifs for Efficient Dual-Functioning Near-Infrared BODIPY Photosensitizers

32. Photoimmunotherapy

S32-01

Hani Choi *(The Catholic University of Korea, Bucheon, Korea)*

EGFR-Targeted Antibody–Polymer–Photosensitizer Induces ROS-Mediated Immunogenic Cell Death and Suppresses KRAS-Driven Signaling in Colorectal Cancer

S32-02

Yeong A Kim *(The Catholic University of Korea, Bucheon-si, Korea)*

Overcoming Delivery Barriers Using a Customized Photo-Activated Polyplex for Intranasal mRNA Delivery

33. Porphyrinoids in photomedicine

S33-01

Dmitry Bunin *(Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Tatiana Egorova, Polina Shram, Roman Akasov, Svetlana Monich, Maxim Stepanov, Maria Stepanova, Ekaterina Urodkova, Ivan Senchikhin, Alexander Martynov, Aslan Tsivadze, Yulia Gorbunova

Novel A_3B-Type Phthalocyanine as Building Block for Self-Assembled Nanoparticles with Type I Photodynamic and Photothermal Activity

S33-02

Magdalena Kozlikova *(Charles University, Faculty of Pharmacy in Hradec Králové, Department of Biochemical Sciences, Hradec Králové, Czech Republic)*, Ingrid Hlbocanova, Pavlina Vavrova, Klara Konecna, Miloslav Macháček

Photodynamic Inactivation of ESKAPE Pathogens with Novel (Aza)phthalocyanines – Study of Their Activity and Safety

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S33-03

Nela Malatesti *(Faculty of Biotechnology and Drug Development, Rijeka, Croatia)*, Martina Mušković Lukić, Martin Lončarić, Nikola Basarić, Ivana Ratkaj

Photophysical Characterisation of Zn(II) and Free-base Pyridiniumporphyrins with a Long Alkyl Chain in Complexes with BSA

S33-04

Monika Rohlícková *(Department of Biochemical Sciences, Faculty of Pharmacy, Charles University, Hradec Králové, Czech Republic)*, Jibin Alex Abraham, Pavlína Vávrová, Klára Konečná, Magdaléna Kozlíková, Petr Zimčík, Veronika Nováková, Miloslav Macháček

Amphiphilic ABAC Phthalocyanine and Its Potential Biomedical Applications

S33-05

Daja Krummenacher *(University of Bern, Biochemistry and Pharmaceutical Sciences, Bern, Switzerland)*, lche Gjuroski, Peter Vermathen, Julien Furrer, Sabine Kässmeyer, Martina Vermathen

Phospholipid Bicelles as Topical Delivery Systems for Porphyrinic Photosensitizers

34. Heme proteins and synthetic analogues

S34-01

Yuto Isoda *(Doshisha University, Kyotanabe, Japan)*, Atsuki Nakagami, Qiyue Mao, Masahito Kodera, Hiroaki Kitagishi

Water-soluble, thiolate-ligated Zn/Fe porphyrins

S34-02

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

Resonance Raman and FTIR Investigation of the Reactions of Hemeproteins with Sulfide/Nitrite

35. Catalysis in natural and biosynthetic heme proteins

S35-01

Cybele Lemuh Njimoh *(Chemistry/University of Michigan, Ann Arbor, USA)*, Krystina Hird, Eric Hegg, Nicolai Lehnert

Trapping and Spectroscopic Characterization of the Ferrous Heme-NO Intermediate of Bacterial Multiheme Cytochrome c Nitrite Reductase

S35-02

Federico Sebastiani *(Department of Chemistry DICUS - University of Florence, Sesto Fiorentino (FI), Italy)*, Laura Cesati, Giulietta Smulevich, Maurizio Becucci, Lara Massai

Cytochrome *c* as a target for metal-based anticancer drugs

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37. Heme enzymes: Structure and function

S37-01

Shubham *(Chemical Sciences/ IISER Mohali, Mohali, India)*, Pritam Mondal

Exploring Hydrogen Atom Abstraction Thermodynamics of a Synthetic (Heme)Fe^{III}±OH Complex: Understanding the Mechanistic intricacies of the final step of Heme-copper Oxidases

S37-02

Shubham *(Chemical Sciences/ IISER Mohali, Mohali, India)*, Pritam Mondal

Stepwise Nitrate → Dinitrogen Transformation Mediated by a Series of Synthetic Heme/Cobalt and Heme/Copper Assemblies: Modeling Denitrification with Cytochrome *c* Oxidase Mimics

S37-03

Petra Hellwig *(University of Strasbourg, CNRS, Strasbourg, France)*, Raaif Siddeeque, Lucia Heger, Thorsten Friedrich, Frédéric Melin

The high diversity of oxygen reactivity in bacterial terminal oxidases

S37-04

Hideki Kato *(Department of Applied Biological Science, Faculty of Science and Technology, Noda, Chiba, Japan)*, Takafumi Hashimoto, Tuhin Das, Daniel Z Doherty, Stephen G. Bell, Toshiki Furuya

Peroxygenase engineering of bacterial cytochrome P450 CYP107J1 for use as a biocatalyst

S37-05

Eftychia Pinakoulaki *(Department of Chemistry, University of Cyprus, Aglantzia, Cyprus)*, Takehiro Ohta, Teizo Kitagawa, Tewfik Soulimane, Constantinos Varotsis

Visible- and UV-Raman Spectroscopy of Nitric Oxide Reductase and Heme-Copper Oxidase Reactions with NO

S37-06

Constantinos Varotsis *(Department of Chemical Engineering, Cyprus University of Technology, Limassol, Cyprus)*, Takehiro Ohta, Kerstin Budiman, Oliver-Matthias Richter, Teizo Kitagawa, Bernd Ludwig, Eftychia Pinakoulaki

The Cytochrome *c* Oxidase -Y280H, -W272H and -Y167F/O_2/H_2O_2 Reactions by UV-Raman Spectroscopy

S37-07

Takahiro Watanabe *(Department of Life Science and Chemistry, Gifu University, Gifu city, Japan)*, Wakaba Noda, Takanori Nakane, Tetsuo Katayama, Atsuhiro Shimada

Time-Resolved XFEL Pump–Probe Analysis Reveals Structural–Electronic Coupling at Metal Sites in Cytochrome *c* Oxidase

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38. Chemistry and biology of corrinoids and related compounds

S38-01

Fabian Piskol *(Albert-Ludwigs-Universität Freiburg, Institute of Pharmaceutical Sciences, Freiburg, Germany)*, Gunhild Layer

A Cobalamin-Dependent Radical SAM Methyltransferase that Methylates SAM – Characterization and Exploration of the Alkyl-Transfer Potential of Orf29

39. Chemistry and biology of natural porphyrinoid pigments

S39-01

Florian Schuhmacher *(University of Freiburg, Institute of Pharmaceutical Sciences, Freiburg, Germany)*, Lin Zhang, Alena Kussler, Oliver Einsle, Gunhild Layer

Conformational flexibility of the nitrogenase-like reductase CfbC/D

S39-02

Hitoshi Tamiaki *(Ritsumeikan University, Kusatsu, Japan)*, Sunao Shoji

Self-aggregation of synthetic bacteriochlorophyll-d analogs with a heptaisobutylated POSS unit in alkane solvents

S39-03

Hitoshi Tamiaki *(Ritsumeikan University, Kusatsu, Japan)*, Jiro Harada

Observation of the phenotypes of mutants lacking the C8-vinyl reductase, BciA or BciB, that is found in the bacteriochlorophyll biosynthesis of photosynthetic bacteria

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Poster Session 2

Thursday, 2 July : *18:30 - 20:30*

Floor 2 :

Seminar Room 3 - **S08-01** *to* **S17-05**
Conference Room 9 - **S17-06** *to* **S23-05**
Training Room - **S23-06** *to* **S26-03** *and* **S40-01** *to* **S41-03**

Characterization

08. Exotic porphyrins and novel heteroaromatic macrocycles
09. NIR-responsive porphyrinoids
11. Porphycenes
12. Aromaticity and antiaromaticity
13. Chiral porphyrinoids and related systems
14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

Materials

15. Porphyrinoids at interfaces
16. Organic electronics and sensors
17. Self-assembled systems and materials
18. Pyrrole-based π-systems
20. MOF and COF

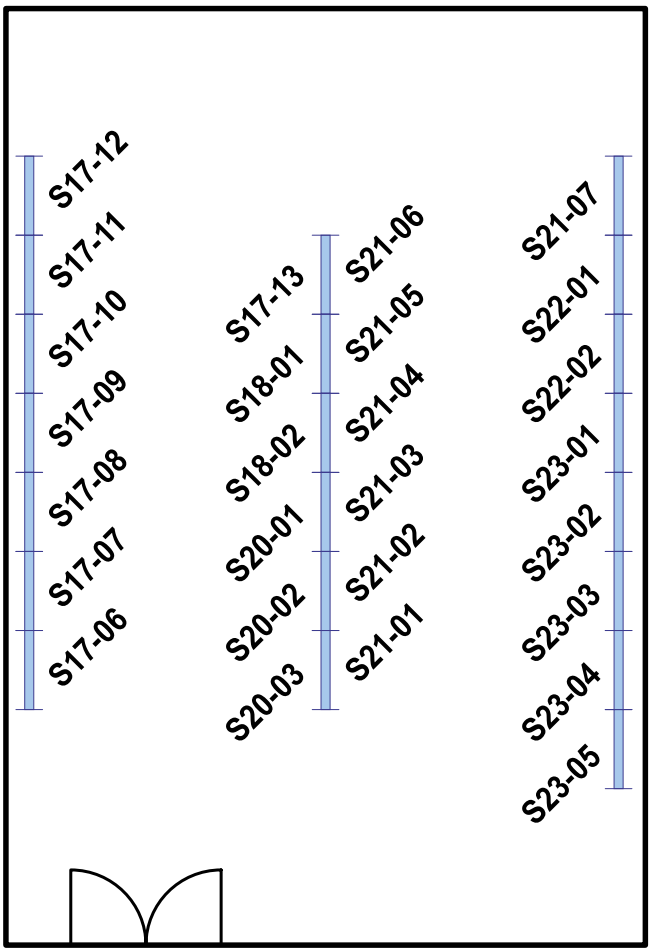
Energy

21. Catalysis for sustainability
22. Solar cells and fuels
23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles
24. Photocatalysis
26. Catalytic activation of CO_2 : From fuels to complex molecules

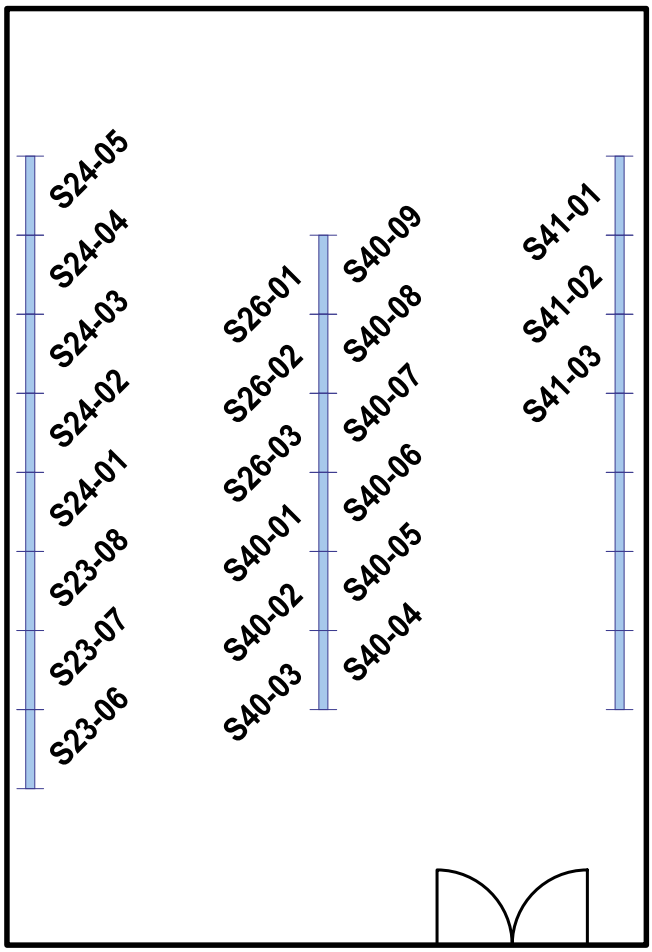
Theory

40. Optical spectroscopy and photochemistry
41. Theory and spectroscopy

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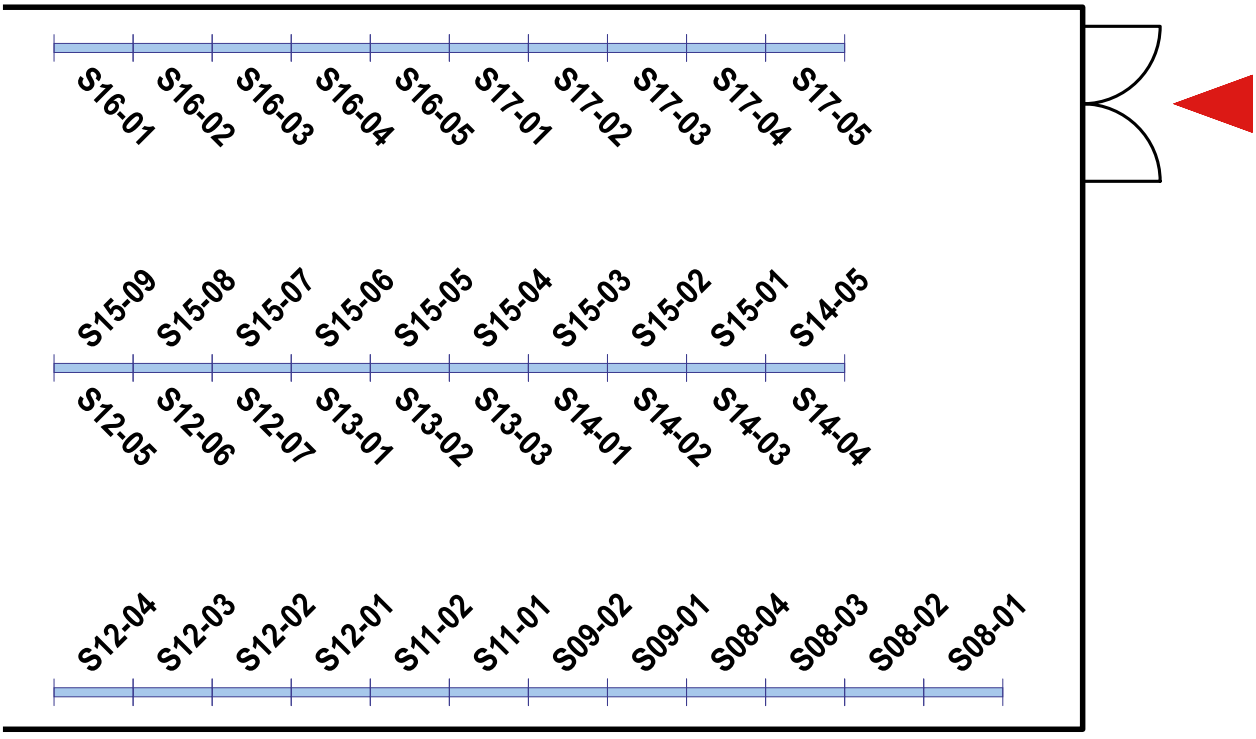


2F - Conference Room 9



2F - Training Room

2F - Seminar Room 3



POSTERS 2 - THU

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8. Exotic porphyrins and novel heteroaromatic macrocycles

S08-01

Reena *(Indian Institute of Technology, Roorkee, Roorkee, India)*

Structure-Driven Enhancement of Third-Order Nonlinear Optical Properties in Electron-Deficient β-Trisubstituted Porphyrins

S08-02

Faith Borkowski *(Department of Chemistry, University of Connecticut, Storrs, USA)*

Pyrrole-modified meso-tetrahexylporphyrin derivatives

S08-03

Dominika Kasperek *(University of Wrocław, Faculty of Chemistry, Wrocław, Poland)*, Ewa Pacholska-Dudziak

It can be whatever you want: The reactivity of tellurophene embedded in the porphyrinoid skeleton toward osmium carbonyl

S08-04

John Mack *(Tebello Nyokong Institute for Nanotechnology Innovation, Rhodes University, Makhanda, South Africa)*, Mahlatse Ledwaba, Simone Bassini, Elise Daems, Earl Prinsloo, Tebello Nyokong, Karolien De Wael

Novel water-soluble chlorin photosensitizers for use in photoelectrochemistry and photodynamic therapy

9. NIR-responsive porphyrinoids

S09-01

Ryo Nishida *(Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan)*, Taniyuki Furuyama

Overcoming thermodynamic limitations in red-light reactions utilizing interatomic interactions

S09-02

Orie Takayama *(The University of Tokyo, Bunkyo-ku, Japan)*, Naoyuki Toriumi, Kenjiro Hanaoka, Masanobu Uchiyama

Ruthenium π-arene Complex of Benziphthalocyanine

11. Porphycenes

S11-01

Agnieszka Gajewska *(Institute of Physical Chemistry, Warsaw, Poland)*, Jacek Waluk, Aleksander Gorski

Porphycenes bearing electron-withdrawing groups: synthesis, spectroscopy, photophysics, and photostability.

S11-02

Narmada Katari *(University of Hyderabad, Hyderabad, India)*, Pradeepta Kumar Panda

3,6,13,16-Tetraarylporphycene: A New Class of Porphycene Derivative Exhibiting Atropisomerism

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12. Aromaticity and antiaromaticity

S12-01

Aleksandra Galazka *(University of Wroclaw, Wroclaw, Poland)*, Qin Liu, Sha Li, Guoru Chen, Xiaofang Li, Michal J. Bialek, Piotr J. Chmielewski

Aromaticity Flip-Flop: Spectroscopic Insights into Pyridine-Fused Oxacorrole Dimers Across Their Redox States

S12-02

Wataru Imanaka *(Department of Chemistry, Graduate School of Science, The University of Osaka, Toyonaka, Japan)*, Satoshi Toyama, Shohei Saito, Ken-ichi Yamashita

Stacked-Ring Antiaromaticity: Experimental Evidence and Structure–Property Relationships in Stacked Dimers of Cyclic Conjugated Radicals

S12-03

Koshiro Isono *(Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan)*, Shiori Itabuchi, Hideaki Takano, Hiroshi Shinokubo

Synthesis, crystal polymorphism, and methylation of Ni(II) dipyridylnorcorrole

S12-04

Jonas Klopf *(Institute of Inorganic Chemistry, University of Würzburg, Würzburg, Germany)*, Lukas Swoboda, Manuel Buckel

Boron-Doped Porphyrinoids with Concealed Antiaromaticity

S12-05

Sha Li *(Department of Molecular and Macromolecular Chemistry, Graduate School of Engineering, Nagoya University, Nagoya, Japan)*

The reaction of Ni(II) norcorroles with TCNE

S12-06

Tae-Ho Roh *(Department of Chemistry, Inha University, Incheon, Korea)*, Pradeep. P Desale, Min-Sung Ko, Hyeon-Seok Jeong

Two Different Clar's Sextets: Clar's Rule Does Not Necessarily Contradict the Global Pathway of Conjugated Macrocycles

S12-07

Taiyou Tsutsumi *(Department of Applied Chemistry, Graduate School of Engineering, Fukuoka, Japan)*, Yukako Kawashige, Takanori Iwasaki, Soji Shimizu

Single Molecular Conductance of Antiaromatic 5,15-Dioxaporphyrin and Its Quantum Interferences

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13. Chiral porphyrinoids and related systems

S13-01

Alexander A. Dmitrienko *(Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Andrey P. Kroitor, Alexander G. Martynov, Yulia G. Gorbunova, Alexander B. Sorokin

Novel architectures of chiral phthalocyanines for the elaboration of asymmetric catalysts

S13-02

Anna Lewandowska-Andralojc *(Adam Mickiewicz University, Faculty of Chemistry, Poznan, Poland)*, Karol Hauza, Gotard Burdzinski, Aleskandra Lindner, Jurgen Lindner, Ruslan Salikhov, Bronislaw Marciniak

Spectroscopic Properties of Chiral Porphyrin Self-Assembled Monolayers on Thin Ferromagnetic Films

S13-03

Sonia Polańska *(Jagiellonian University, Kraków, Poland)*

Chiroptically active 3D macrocycles based on triptycene

14. Advances in the chemistry of porphyrazines (azaporphyrins) and their analogues

S14-01

Mikhail Belousov *(Lomonosov Moscow State University, Moscow, Russia)*, Ivan Burtsev, Alina Markova, Tatiana Dubinina

The first pyrido[1,2-a]benzimidazole-fused porphyrazines – promising near IR photosensitizers

S14-02

Tatiana Dubinina *(Lomonosov Moscow State University, Moscow, Russia)*, Roman Eremeev, Ivan Burtsev, Alina Markova, Vladimir Kuzmin

Subporphyrazine-drug hybrid photosensitizers containing diclofenac and abiraterone: Synthesis, photophysical properties, and photodynamic activity in vitro

S14-03

Dennis Mercier *(Chemistry, London, Canada)*, Veronika Novakova, Martin J. Stillman

Characterization of the effects of peripheral substitutions on the electronic structure of tetrapyrazinoporphyrazines

S14-04

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

Synthesis, molecular structure and physicochemical properties of Si(IV) octapropylporphyrazine and etioporphyrin

S14-05

Ekaterina Rychikhina *(Research Institute of Macroheterocycles, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia)*, Svetlana Ivanova, Pavel Stuzhin

Si(IV) complexes of tetrapyrazinocorrolazine with camphor-annulated rings

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15. Porphyrinoids at interfaces

S15-01

Yannic Altmann *(University of Kassel, Kassel, Germany)*, René Matzdorf, Rüdiger Faust

Towards On-Surface Photoswitching of Electronic Conductivity with Aza-BODIPY Molecular Wires

S15-02

Daniel Arribas *(Max Planck Institute for Solid State Research, Stuttgart, Germany)*, Thiago G. L. Brito, Myriam Wadsack, Claudia Leticia Gómez Flores, Irena Padniuk, Victor Feitosa, Klaus Kuhnke, Klaus Kern, Kelvin Anggara, Anna Rosławska

Optical characterisation of single chlorophyll molecules at the sub-nanometre scale

S15-03

Lenka Cerna *(IMDEA Nanociencia, Madrid, Spain)*, Alba García-Frutos, Ana Barragán, Gouri Sahoo, Sofía O. Perreiras, Koen Lauwaet, Óscar Jóver, José I. Urgel, Marco di Giovannantonio, José I. Martínez, Willi Auwärter, José M. Gallego, Ángela Sastre, David Écija

Engineering Non-Metalated Phtalocyanines on Au(111)

S15-04

Marta Gómez Gómez *(Universidad Autónoma de Madrid, Madrid, Spain)*, Jorge Lobo Checa, Jorge Labella, Tomás Torres

On-Surface Synthesis of π-Extended Subphthalocyanine-Based Systems

S15-05

Thiago Gonzalez-Llana Brito *(Max Planck Institute for Solid State Research, Stuttgart, Germany)*, Daniel Arribas, Sofia Canola, Klaus Kuhnke, Tomáš Neuman, Anna Roslawska

Tuning Molecular Light Emission Through Atomic-Scale Control of the Local Environment

S15-06

Ailish Gray *(School of Physics and Astronomy, University of Nottingham, Nottingham, United Kingdom)*, Eleanor S. Frampton, Michael Clarke, Matthew Edmondson, Joseph Straw, Robert Templeton, Alex Saywell

Structural characterisation of an on-surface reaction: Halogenated porphyrins on Cu(111)

S15-07

Ailish Gray *(School of Physics and Astronomy, University of Nottingham, Nottingham, United Kingdom)*, Eleanor S. Frampton, Michael Clarke, Matthew Edmondson, Jonathan Bradford, Liv Warwick, Nicholas Pearce, Neil R. Champness, Alex Saywell

Extrinsic activation of an on-surface reaction

S15-08

Joseph Straw *(University of Nottingham, Nottingham, United Kingdom)*, Matthew Edmondson, Michael Clarke, Liv Warwick, Ailish Gray, Amelia Thompson, Fulden Eratam, David A. Duncan, Alex Saywell

Molecular materials for carbon capture and storage: On-surface characterisation of self-assembly and gas adsorption properties of metal phthalocyanines and porphyrins.

S15-09

Joseph Straw *(University of Nottingham, Nottingham, United Kingdom)*, Matthew Edmondson, Michael Clarke, James N. O'Shea, Harry L. Anderson, Alex Saywell

Electrospray deposition and on-surface characterisation of cyclic-porphyrin polymers

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16. Organic electronics and sensors

S16-01

Minamo Furuta *(Kyoto University, Kyoto-fu Uji-shi, Japan)*, Keitaro Yamamoto, Mitsuaki Yamauchi, Hiroko Yamada

Development of Quinoidal Conjugated Molecules Based on Isobenzoheterole Units

S16-02

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

Lessard Research Group: Electronics and Sensors Based on Phthalocyanines and Beyond

S16-03

Kazuya Miyazaki *(Kyoto University, Uji Campus, Japan)*, Keitaro Yamamoto, Mitsuaki Yamauchi, Yoshiyuki Mizuhata, Hiroko Yamada

Charge Transport Properties of a Tetrabenzoporphyrin Derivative with the Superlattice Herringbone Structure

S16-04

Aleksandr Sukhikh *(Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia)*, Darya Klyamer, Dmitry Bonegardt, Tamara Basova

Halogenated phthalocyanines: crystal structure, packing motifs, and intermolecular interactions

S16-05

Francesca Tessore *(Department of Chemistry, University of Milan, Milan, Italy)*, Giuseppe Cappelletti, Gian Luca Chiarello, Gabriele Di Carlo, Manuel Minnucci, Sara Oregioni, Rocco Martinazzo

Interplay Between SnO_2 and Perfluorinated Zn(II) Porphyrins: Electronic Effects and Chemisorption–Physisorption Mechanisms in Acetone Chemiresistive Detection

17. Self-assembled systems and materials

S17-01

David B. Amabilino *(Barcelona Materials Science Institute (ICMAB-CSIC), Bellaterra, Spain)*, Daniela Dupkalová, Aysha Fasna, Monika Gupta, Lluïsa Pérez-García

Light-induced molecular motion in supramolecular fibres

S17-02

Kodai Asakuma *(Chuo University, Bunkyo-ku, Japan)*

Alkyl-phthalocyanine-based liquid electrets

S17-03

Stefan Bednarik *(Charles University, Faculty of Pharmacy, Hradec Kralove, Czech Republic)*, Jiri Demuth, Isabelle Chambrier, Ales Ruzicka, Jan Labuta, Petr Zimcik, Andrew Cammidge, Veronika Novakova

Self-assembly of meso-functionalized ABBA Zinc(II) Tetrabenzotriazaporphyrins into supramolecular systems

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S17-04

Konstantin Benthues *(Department of Chemistry & Pharmacy/ Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen, Germany)*, Norbert Jux, Christoph Oleszak, Christian Ritterhoff

Synthesis of Five Ring Fused Porphyrins for Supramolecular Chemistry and Non-Planar Structures

S17-05

Dae Eun Kang *(Department of Chemistry, Yonsei University, Seoul, Korea)*

Helical and Nanoparticle Structures in Self-Assembled Porphyrin Dyads by Linker Modification

S17-06

Ryuichi Kawai *(Division of Advanced Science and Engineering, Graduate School of Engineering, Chiba University, Inage-ku, Japan)*, Soichiro Ogi, Hiroki Hanayama, Ryo Kudo, Shiki Yagai

Curvature-Driven Supramolecular Polymerization of a Porphyrin Dyad with a Scissor-Shaped Motif

S17-07

Ryo Kudo *(Chiba University, Chiba, Japan)*, Sho Takamiya, Hitoshi Tamiaki, Hiroki Hanayama, Shiki Yagai

Additive-Controlled Polymorphism in a Chlorophyll-Based Supramolecular Polymer

S17-08

Khaoula Lmcharrag *(Faculty of Pharmacy in Hradec Králové, Charles University, Hradec Králové, Czech Republic)*, Stefan Bednarik, Veronika Novakova, Petr Zimcik

Self-assembled fluorescent J-dimers of phthalocyanines

S17-09

Yuto Nakaie *(College of Science & Technology, Nihon University, Chiyoda-ku, Japan)*, Ryota Yamada, Joe Otsuki

Coordination-Induced Porphyrin Dimers with an Expanded Cavity as Host Molecules

S17-10

Dmitrii Nazarov *(Federal Research Center of Problems of Chemical Physics and Medicinal Chemistry of the Russian Academy of Sciences (ICP RAS), Chernogolovka, Russia)*, Maxim Faraonov, Dmitri Konarev

Binuclear Coordination Assemblies of Metal Tetraphenylporphyrins (M = Mn, Fe, and In) with various Dyes (thioindigo, pentacenequinone, iso-violanthrone, and manganese(II) phthalocyanine)

S17-11

Lluisa Pérez-García *(Universitat de Barcelona, Barcelona, Spain)*, Pascual López-Algarra, Saman Bagherpour, Marta Duch, José Antonio Plaza, Josefa Badia, Laura Baldomà, Sergio Martínez-Ruiz

Influence of Surface Functionalization of Silicon Oxide Microchips on Cytocompatibility and Cellular Internalization

S17-12

Ainhoa Salazar *(Universidad Autónoma de Madrid, Madrid, Spain)*, Aleksandr Mikherdov, Guido Clever, Gema de la Torre

BODIPY-Based Ligands for the Self-Assembly of Pd_nL_{2n} Coordination Cages.

S17-13

Kota Taniguchi *(Nihon University, Tokyo, Japan)*, Tomoya Abe, Yuto Nakaie, Ryota Yamada, Masaya Domyo, Ayumu Murokoshi, Yousuke Hosoya, Kosuke Sugawa, Joe Otsuki

Metal-driven Dimerization of Porphyrins bearing Bipyridine Ligands Modified with Ethylene Glycol Chains

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18. Pyrrole-based π-systems

S18-01

Adrija Kayal *(School of Chemical Sciences, National Institute of Science Education and Research (NISER), An OCC of Homi Bhabha National Institute, Bhubaneswar, India)*, Mainak Das, A Srinivasan

Dicarbatriphyrin(2.1.1) and Carbacalix[1]phyrin(2.1.1) analogue: Structure-property relationship and application as a Fe(III) chemosensor

S18-02

Tomokazu Nakamura *(Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University, Hachioji, Japan)*, Masatoshi Ishida

Synthesis and Photophysical Properties of β,β-Butadiyne- bridged BODIPY Nanorings

20. MOF and COF

S20-01

Russell Cox *(University of Notre Dame, Notre Dame, USA)*

Porphyrin-based Plutonium Metal–Organic Frameworks: A Versatile Platform for Investigating Elusive Actinide Cluster Chemistry

S20-02

Russell Cox *(University of Notre Dame, Notre Dame, USA)*

Synthesis and Structural Evolution of Lanthanide-Porphyrin MOFs

S20-03

Yewon Kim *(Department of Chemistry, Yonsei University, Seoul, Korea)*

Interfacial Synthesis of Naphthorosarin-based 2D MOF

21. Catalysis for sustainability

S21-01

Shivani *(Indian Institute of Technology Roorkee, IIT ROORKEE, India)*

β-Functionalized Oxido-Vanadium Porphyrins for Multicomponent Synthesis of Bioactive Pyranopyrazoles

S21-02

David George Churchill *(KAIST, Yuseong-Gu, Korea)*, Jyoti, Ritika Kubba, Sachin Kumar, Natalia Fridman, Sudhir G. Warkar, Anil Kumar

Cobalt Corroles and their Level of Hydrogen Evolution Activity

S21-03

Athanassios Coutsolelos *(University of. Crete, Heraklion, Greece)*, Katerina Achilleos, Anna Katsari, Emmanuel Nikoloudakis, Georgios Charalambidis, Kalliopi Ladomenou

Covalently linked porphyrin-carbon dot hybrids for efficient visible light hydrogen production

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S21-04

Kamal Dhakal *(University of North Texas, Denton, USA)*, Alankar Kafle, Diliraj Subedi, Mohammad K. Altafi, Alireza Hajiseyedjavadi, Swatej Sabbarwal, Thomas R. Cundari, Francis D'Souza

Electrochemical Conversion of Nitrate and Carbon Dioxide to Value-Added Chemicals Using Bifunctional Electrocatalyst Cobalt Tritolycarboxyl Porphyrin

S21-05

Alexander A. Dmitrienko *(Frumkin Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Andrey P. Kroitor, Yulia G. Gorbunova, Alexander B. Sorokin, Alexander G. Martynov

From screening to stereocontrol: DFT study of tetrapyrrolic catalysts for cyclopropanation

S21-06

Kai-Chun Hsu *(Academia sinica, institute of chemistry, Taipei City, Taiwan)*, Bhakyaraj Kasia, Tanmoy Pain, Chen-Hsiung Hung

Hydrogen Atom Abstraction by mu-Oxo Iron Porphyrin Dimers in Dioxygen-Promoted Catalytic Deformylation of Aldehydes

S21-07

Andrei Kroitor *(Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia)*, Alexander Martynov, Yulia Gorbunova, Alexander Sorokin

Ruthenium naphthalocyanine as a catalyst for carbene insertion into N-H bonds.

22. Solar cells and fuels

S22-01

Reena *(Indian Institute of Technology, Roorkee, Roorkee, India)*

Redox-Active β-Tetrathiophenols Porphyrins as Next-Generation Hole-Transport Materials in Perovskite Photodetectors

S22-02

Alexander Rudine *(Portland State University, Portland, USA)*, Brian DelFatti, Nicholas Day, Carl Wamser

Photophysical Characterizations for a Full Series of Novel Push-Pull Porphyrins Containing p-Aminophenyl and p-Carboxy/carbomethoxyphenyl Substituents.

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23. Redox chemistry and electrochemistry of porphyrinoids and oligopyrroles

S23-01

Élodie Anxolabéhère-Mallart *(Sorbonne Université, Institut Parisien de Chimie Moléculaire, CNRS UMR 8232, Paris, France)*, Kirill Kuznetsov, Jérémy De Freitas, Marc Robert, Claire Fave

Electrochemical generation of reactive Nitrido complexes for Nitrogen Atom Transfer

S23-02

Élodie Anxolabéhère-Mallart *(Sorbonne Université, Institut Parisien de Chimie Moléculaire, CNRS UMR 8232, Paris, France)*, Sara I. Mozzi, Ireneusz Tomczyk, Sihem Groni, Sittichok Kasemthaveechok, Claire Fave

Mechanistic Investigation on the Oxygen Atom Transfer to Styrene via the Electrochemical O_2 Activation by a Mn Porphyrin

S23-03

Charles H. Devillers *(ICMUB, Université Bourgogne Europe, Dijon, France)*, Nesrine Amiri, Asmae Bousfiha, Fatima Akhssas, Abdou Khadre Djily Dimé, Hélène Cattey, Julien Roger

Intramolecular Electron Transfer Between Electrogenerated Ferrocenium and Porphyrin Redox Units: Application to meso-Functionalization of 5,15-bis-FerrocenylPorphyrin

S23-04

Charles H. Devillers *(ICMUB, Université Bourgogne Europe, Dijon, France)*, Nesrine Amiri, Asmae Bousfiha, Fatima Akhssas, Mathieu Berthelot, Hélène Cattey, Julien Roger

Synthesis of meso,β-fused Thiazinamine-Porphyrins via Oxidative C-N Fusion of Pyrimidinyl-substituted Porphyrins

S23-05

Brendon McNicholas *(University of Tennessee, Knoxville, Knoxville, USA)*, Emma Lane, Marissa Kuruce

Electronic Characteristics of Cyano-Substituted Transition Metal Tetraphenylporphyrins

S23-06

Brendon McNicholas *(University of Tennessee, Knoxville, Knoxville, USA)*, Wren Stiefel, Ryan Hadt

Slurry-State Redox Flow Batteries Employing Silicon Phthalocyanine Oligomers: Electron Delocalization Enhances Cycling Stability

S23-07

Emut Sukma Sejati *(Luxembourg Institute of Science and Technology, Esch-sur-Alzette, Luxembourg)*, Amr Nada, Nicolas D. Boscher, Diego Martinez-Martinez, Robin J. White

Highly-Conjugated Porphyrin Polymer Films via Oxidative Chemical Vapor Deposition for the Oxygen Reduction Reaction

S23-08

Kenberson Surin *(Sorbonne Université, CNRS, Institut Parisien de Chimie Moléculaire (IPCM), Paris, France)*, Dependu Dolui, Marc Robert

Towards the electrochemical molecular activation of dinitrogen with phthalocyanines

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24. Photocatalysis

S24-01

Ashmita Jain *(Chemistry, IIT Gandhinagar, Gandhinagar, India)*

Photoredox Reactions mediated by Corrole Derivatives

S24-02

Shekhar Kumar *(IIT Gandhinagar, Gandhinagar, India)*, Samrita Sharma, Iti Gupta

Photo-Assisted Organic Transformations by Palladium Dipyrrinato Complexes

S24-03

Kushal Mohan Gowda *(Department of Environmental Science, Hokkaido University, Sapporo, Japan)*, Yasuko Osakada, Mamoru Fujitsuka, Vasudevanpillai Biju, Yuta Takano

Tuning Photo-excited Pathways of Platinum (II)-Porphyrin by Chitosan for an Efficient Photocatalyst

S24-04

Nithish Kumar Subramanian *(Faculty of Chemistry, University of Wroclaw, Wroclaw, Poland)*, Aleksandra Legiecka, Karolina Hurej

Controlling Bifunctionalisation Pathways in Metalloporphyrin-catalyzed C(sp^3)–H chlorination of Arylalkanes

S24-05

Masahiro Yamaguchi *(School of Engineering, The University of Tokyo, Kashiwa-shi, Chiba, Japan)*, Kaito Shioya, Chifeng Li, Kentaro Yonesato, Kei Murata, Kazuyuki Ishii, Kazuya Yamaguchi, Kosuke Suzuki

Engineering of Cofacial Porphyrin Dimers Using Polyoxometalates and Their Photocatalysis

26. Catalytic activation of CO_2: From fuels to complex molecules

S26-01

Albert Buenos *(Frédéric Joliot Institute for Life Sciences, French Atomic Energy and Alternative Energies Commission (CEA), Saclay, France)*, Asma Khadharoui, Ally Aukauloo, Zakaria Halime, Anja Krieger-Liszkay, Philipp Gotico

When Charge Matters: Electrostatic Second-Sphere Design Unlocks Enhanced Photocatalytic CO_2 Reduction

S26-02

Shunsuke Eguchi *(Kyushu University, Fukuoka-shi, Japan)*, Koshiro Chiwata, Ken Sakai, Kosei Yamauchi

CO_2 Reduction Reaction Promoted by Macrocyclic Bis(NHC) Cobalt Complexes

S26-03

Barbara Ventura *(Istituto per la Sintesi Organica e la Fotoreattività (ISOF) – Consiglio Nazionale delle Ricerche (CNR), Bologna, Italy)*, Alejandra Saavedra Moncada, Elisa Bandini, Marco Agnes, Andrea Barbieri, Nicola Armaroli

Photoinduced processes in $Ru(bpy)_3$-porphyrin dyads designed for carbon dioxide valorization

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40. Optical spectroscopy and photochemistry

S40-01

Andrew Dawson *(Department of Chemistry, University of North Texas, Fort Worth, USA)*, Victor Sobrino-Bastán, Luis Martín-Gomis, Ángela Sastre-Santos, Francis D'Souza

Long-lived Excited Charge Separation in Silicon(IV) Phthalocyanine with Axially Bound C_{60} via Azobenzene Spacers

S40-02

Chamari Viyanga Ileperuma *(University of North Texas, Department of Chemistry, Denton, USA)*, José Garcés-Garcés, Ana M. Gutiérrez-Vílchez, Ángela Sastre-Santos, Fernando Fernández Lázaro, Francis D'Souza

Enhancing Charge-Separated State Persistence via N-Linked Zinc Phthalocyanine-Pyrroloperylenediimide (ZnPc-N-PDI) Donor–Acceptor Architecture

S40-03

Ram Ratan Kaswan *(University of North Texas at Denton, Denton, USA)*, Lydia Ferrer-López, Desire Molina Alcaide, Ángela Sastre-Santos

Symmetry Breaking Charge Separation in Zinc Phthalocyanine Dimers Self-Assembled via Hydrogen Bonding

S40-04

Breanna Muldowney *(University of Tennessee Knoxville, Knoxville, USA)*, Benjamin Childs, Michael Gutiérrez, Michael Hendrich, Viktor Nemykin

Cobalt (II) and Cobalt (III) Phthalocyanine Amine Complexes

S40-05

Cora A. Noble *(Department of Chemistry and Chemical Biology, Cornell University, Ithaca, USA)*, Thomas M. Khazanov, Andrew J. Musser

Can Strong-Light Matter Coupling Modify Potential Energy Surfaces?

S40-06

Martin Presselt *(Leibniz-Institut für Photonische Technologien e. V. (IPHT), Jena, Germany)*, Anna Elmanova, Arghyadeb Roy, Maximilian L. Hupfer

Ab-initio Mapping of π-Stacking Motifs in 5,10,15,20-Tetrakis(4-aminophenyl)porphyrin (TAPP): From Dimer Landscapes to Extended Aggregates

S40-07

Martin Presselt *(Leibniz IPHT, Jena, Germany)*, Arghyadeb Roy, Anna Elmanova, Sujith Jayan, Maximilian L. Hupfer, Todd J. Martínez, Daniel T. Gryko

First-Principles Analysis of Protonation-Induced Electronic Effects in Tetrakis(p-aminophenyl) porphyrin (TAPP)

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S40-08

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

Absorption and fluorescence spectra of tetrapyrroles –collected with friends and chatbots for PhotochemCAD

S40-09

Victoria Villarreal *(The University of Tennessee - Knoxville, Knoxville, USA)*, Andrew Healy, Rachel Swedin, Michael Gutierrez, David Blank, Victor Nemykin

Influence of Molecular Rotation on the Stability of Charge-Separated State in Non-Fullerene Supramolecular Assemblies

41. Theory and spectroscopy

S41-01

Anas Santria *(The University of Osaka, Toyonaka, Japan)*, Yutaro Sakaguchi, Naoto Ishikawa

Magnetic Interaction in the Excited State of Triple-Decker Lanthanide Phthalocyanine Complexes

S41-02

Barbara Ventura *(Istituto per la Sintesi Organica e la Fotoreattività (ISOF) – Consiglio Nazionale delle Ricerche (CNR), Bologna, Italy)*, Federica Ruani, Sonia Adrouche, Gianluca Dell'Orletta, Daniel Sánchez-Resa, Andrea Barbieri, Stéphanie Durot, Isabella Daidone, Valérie Heitz, Nicola Armaroli

A spectroscopic and computational analysis of the interaction of a porphyrinic cage with ethionamide

S41-03

Yuriy Zhabanov *(Ivanovo State University of Chemistry and Technology, Ivanovo, Russia)*, Dmitriy Vyalkin, Ulyana Petrova, Alina Knyazeva, Alexey Eroshin

Molecular structure and electron density distribution of tetrakis(1,2,5-thiadiazole)porphyrazine complexes

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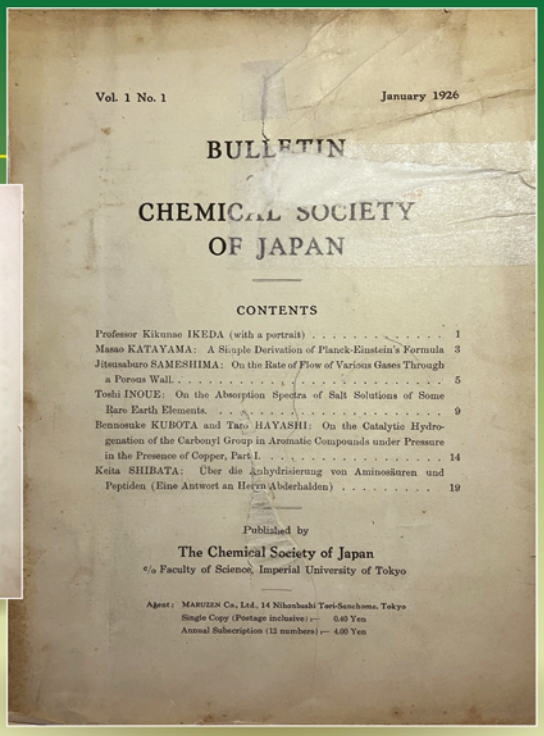
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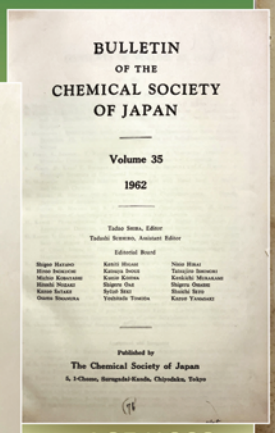


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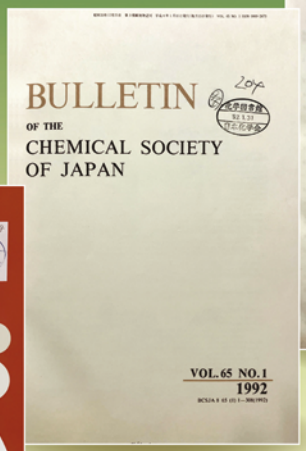
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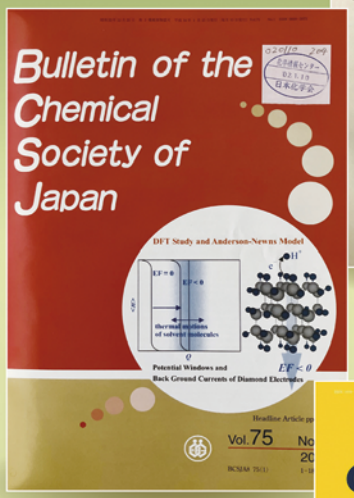




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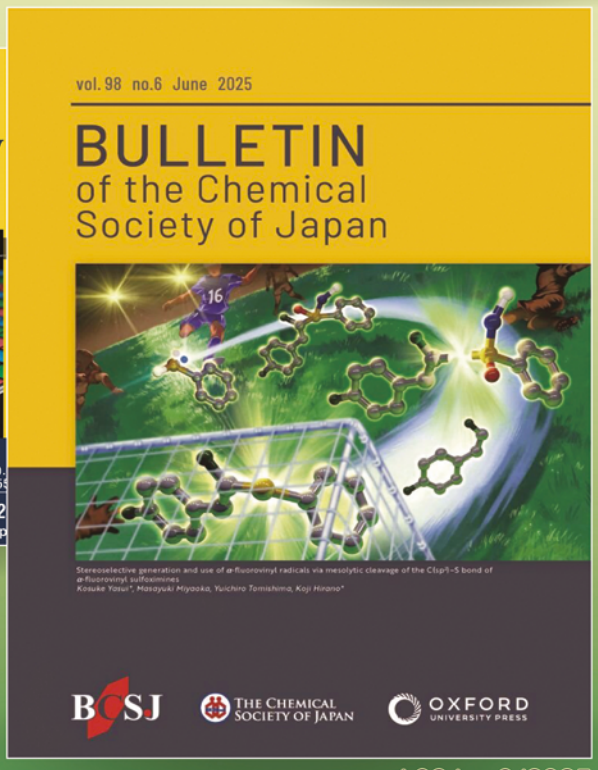
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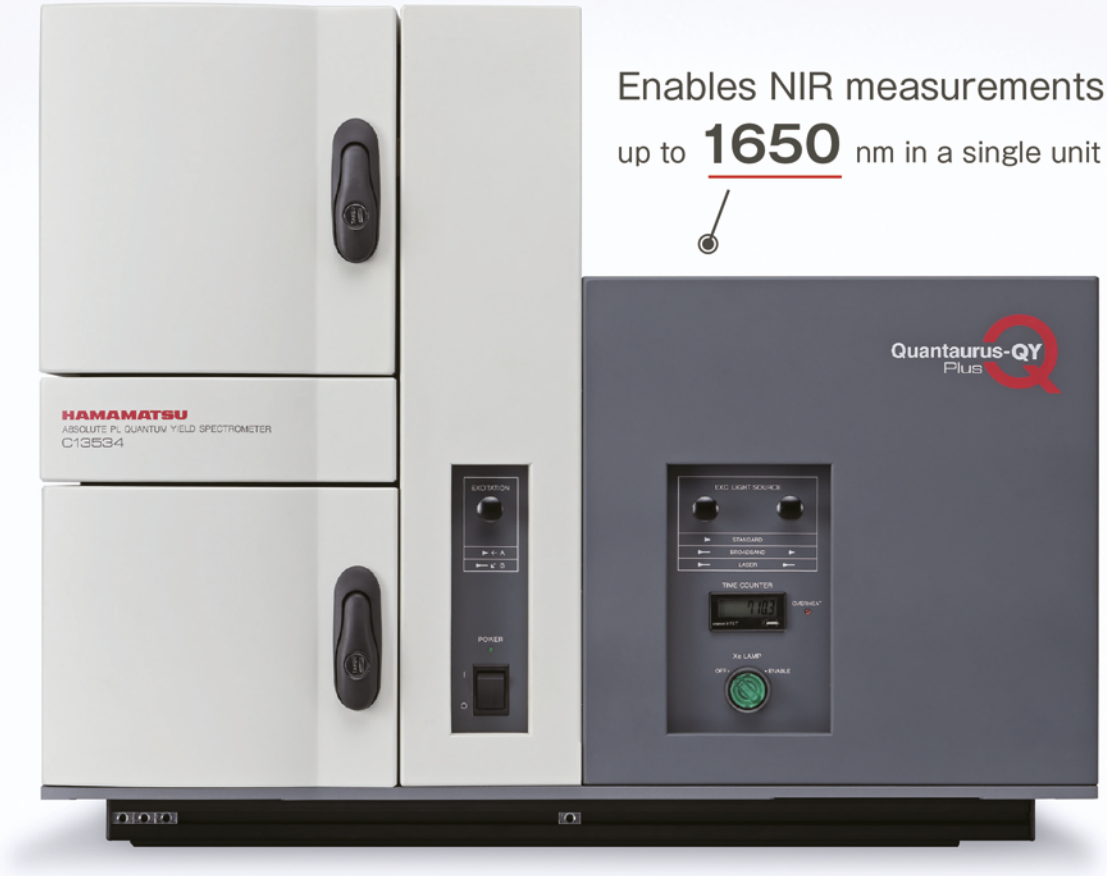
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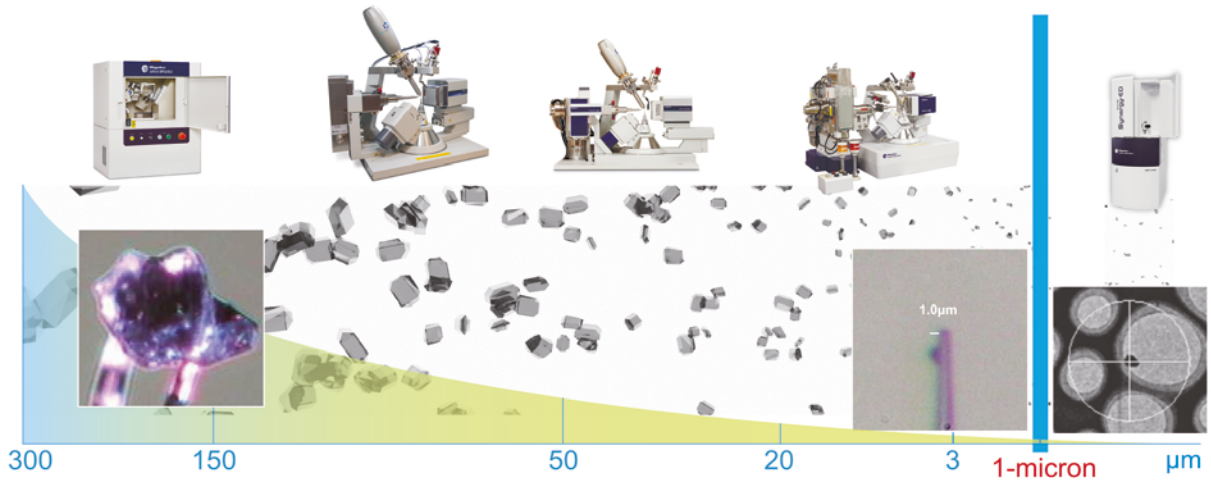
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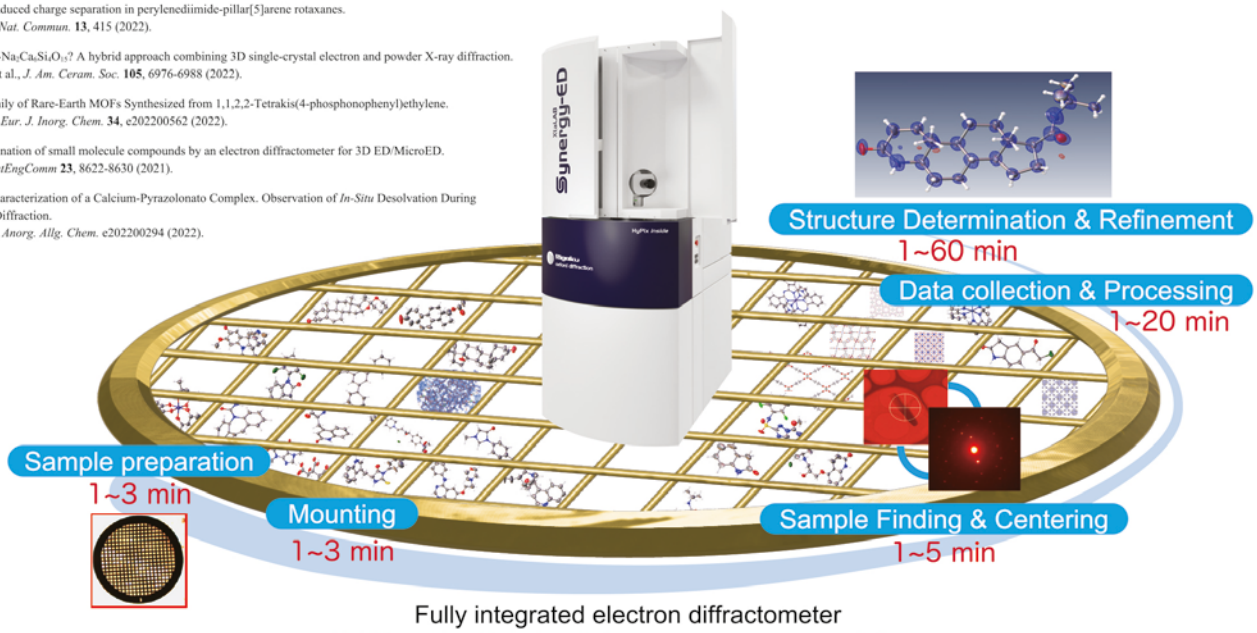
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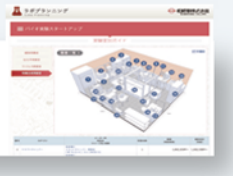
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Notes

Notes

Shuttle Service between **RIHGA Royal Hotel Kyoto** and **Kyoto Terrsa Conf. Center**

Travel time: *approx*. ***15 minutes***. Bus capacity: ***50 passengers***

Monday, June 29

Morning Shuttle Service

Departure times from RIHGA Royal Hotel

1 7:50 / 8:20
2 8:00 / 8:30
3 8:10 / 8:40

Three buses operating two round trips

Evening Shuttle Service

Departure times from Kyoto Terrsa

1 18:40 / 19:10
2 18:40 / 19:10
3 18:40 / 19:10

Three buses operating two round trips

Tuesday, June 30

Morning Shuttle Service

Departure times from RIHGA Royal Hotel

1 7:50 / 8:20
2 8:00 / 8:30
3 8:10 / 8:40

Three buses operating two round trips

Evening Shuttle Service

Departure times from Kyoto Terrsa

1 18:40 / 19:20 / 20:00 / 20:40
2 19:00 / 19:40 / 20:20 / 20:50

Two buses operating two round trips

Wednesday, July 1

Morning Shuttle Service

Departure times from RIHGA Royal Hotel

1 7:50 / 8:20
2 8:00 / 8:30
3 8:10 / 8:40

Three buses operating two round trips

Midday Shuttle Service

Departure times from RIHGA Royal Hotel

11:30 / 12:00

Departure times from Kyoto Terrsa

11:45 / 12:15

Thursday, July 2

Morning Shuttle Service

Departure times from RIHGA Royal Hotel

1 7:50 / 8:20
2 8:00 / 8:30
3 8:10 / 8:40

Three buses operating two round trips

Evening Shuttle Service

Departure times from Kyoto Terrsa

1 18:40 / 19:20 / 20:00 / 20:40
2 19:00 / 19:40 / 20:20 / 20:50

Two buses operating four round trips

Friday, July 3

Morning Shuttle Service

Departure times from RIHGA Royal Hotel

1 7:50 / 8:20
2 8:00 / 8:30
3 8:10 / 8:40

Evening Shuttle Service

Departures from Kyoto Terrsa

After Closing Ceremony : ***TBA***

ICPP14 | KYOTO

Full Schedule

SUN. 28 JUNE

Registration
13:00 - 16:00
Kyoto TERRSA Conference Center
Main Lobby

Welcome Reception
18:30 - 20:30
RIHGA Royal Hotel
Shunju Banquet Hall

MON. 29 JUNE

09:00-09:30 Opening Ceremony

09:30-10:30 **Lifetime Award** Francis D'Souza

10:30-11:00 coffee break

11:00-13:00 **Orals**

lunch 12:15 - 13:45

14:00-16:00 **Orals**

16:00-16:30 coffee break

16:30-18:30 **Orals**

18:30-20:30

TUE. 30 JUNE

09:00-10:00 **Lifetime Award** Takashi Hayashi

10:00-10:30 coffee break

10:30-12:50 **Orals**

lunch 12:00 - 13:45

14:00-16:00 **Orals**

16:00-16:30 coffee break

16:30-18:30 **Orals**

18:30-20:30 **Poster Session 1**
Floor 2
Seminar Room 3
Conference Room 9
Training Room

WED. 1 JULY

SPP/JPP Young Investigator Awards
09:00 - 10:30

coffee break

Lever Award 11:00 - 11:30

group photo *all participants*

Lunch 12:00 - 12:30
boxed lunch distribution

Excursions
12:30 - 18:00

1. Kinkaku-ji & Ryoan-ji
2. Ginkaku-ji & Philosopher's Path
3. Arashiyama Area
4. Fushimi Inari
5. Uji & Byodoin Temple
6. Takao Mountain Temples
7. Company Tour – HORIBA
8. Company Tour – SHIMADZU

Gala Dinner
(Tickets only)
19:00 - 22:30
RIHGA Royal Hotel
Shunju Banquet Hall

THUR. 2 JULY

Lifetime Award José H. Zagal

coffee break

Orals

lunch 12:00 - 13:45

Orals

coffee break

Orals

Poster Session 2
Floor 2
Seminar Room 3
Conference Room 9
Training Room

FRI. 3 JULY

Lifetime Award Harry L. Anderson

coffee break

Orals

lunch 12:00 - 13:45

Orals

short coffee break

SPP Meeting *Future of ICPP*
& Closing Ceremony
16:15 - 17:15