



福州大学
FUZHOU UNIVERSITY



大阪府立大学
OSAKA PREFECTURE UNIVERSITY

Program & Abstracts

International Symposium on Photocatalysis,
Photofunctional Materials and Nano-Science & Technology
--The 4th FZU-OPU Joint Symposium--

Provide an unique opportunity to promote international friendship and goodwill among participants and universities:

November 25th (Mon) and 26th (Tues), 2019
Fuzhou University, Fuzhou, Fujian Province, P. R. China
(Conference Room in the Science & Technology Park)



Organizing Committee

Organizer

Organizing Committee of the International Symposium on Photocatalysis, Photofunctional Materials and Nano-Science & Technology --The 4th FZU-OPU Joint Symposium-- (FZU)

Chairman: Xianzhi Fu (President of Fuzhou University, Professor, and Academician in China)

Co-Chairman: Masakazu Anpo (Special Honor Professor and International Advisor, Fuzhou University, Emeritus Professor of OPU, Academia Europaea)

Members:

Xinchen Wang (Professor, Dean of College of Chemistry, and Director of State Key Laboratory of Photocatalysis on Energy and Environment)

Wenxin Dai (Professor, College of Chemistry, State Key Laboratory of Photocatalysis on Energy and Environment)

Yijun Xu (Professor, College of Chemistry, State Key Laboratory of Photocatalysis on Energy and Environment)

Zhaohui Li (Professor, College of Chemistry, State Key Laboratory of Photocatalysis on Energy and Environment)

Sen Lin (Professor, College of Chemistry and Photocatalysis Research Institute)

Yuanxing Fang (Assoc. Professor, College of Chemistry , State Key Laboratory of Photocatalysis on Energy and Environment)

Masaya Matsuoka (Professor, Osaka Prefecture University)

Masahide Takahashi (Professor, Osaka Prefecture University)

Co-organizers:

Osaka Prefecture University (OPU)

University of Hyogo (UOH)

Program

Venue: Lecture Hall on the 1st Floor, Yangguang Science & Technology Building,
Science Park, Fuzhou University

<i>Chairperson: Prof. Xinchen Wang</i>				
November 25 th (Monday), 2019				
Time	Affiliation	Name of Speaker	Title of Presentation	Chairpersons
8:30-9:10			On-site Registration (Lobby floor)	
9:10-9:20	FZU	Chairman, President of Fuzhou University Prof. Xianzhi Fu	Opening Address	Dean, College of Chemistry Prof. Xinchen Wang (FZU)
9:22-9:52	FZU OPU UOH	Prof. Tailiang Guo Prof. Masaya Matsuoka Prof. Nobuhiro Kawatsuki	Introduction of industry-academia- Government collaborations Fuzhou Univ., Osaka Prefecture Univ. and Univ. of Hyogo	Co-chairman Prof. Masakazu Anpo (FZU)
9:54-10:34	Trieste Univ.	Prof. Paolo Fornasiero	Planary Lecture Photocatalytic nanomaterials for the energy application	
10:34-10:44			Group Photo	
10:44-10:55			Coffee Break	
10:55-11:25	Yamaguchi Univ.	Prof. Suzuko Yamazaki	Invited Lecture-1 Development of efficient photocatalysts and photochromic materials by using metal oxide nanoparticles	Prof. Xinchen Wang (FZU)
11:26-11:56	Osaka Univ.	Prof. Hiromi Yamashita	Invited Lecture -2 Photocatalytic synthesis of hydrogen peroxide using MOF materials	
11:57-12:27	East China Univ. Sci. Technol.	Prof. Jinlong Zhang	Invited Lecture-3 Ga-doped and Pt-loaded porous TiO ₂ -SiO ₂ for photocatalytic nonoxidative coupling of methane	
12:27-14:27			Luncheon Poster Session (Lobby floor)	Dr. Chaojun Shen (FZU) Dr. Yuanxing Fang (FZU)

14:30-17:30			Lab and Campus Tour	Dr. Yuanxing Fang (FZU) Qinghe Li-kun (PhD) (FZU) Prof. Masakazu Anpo (FZU)
18:20-20:20			Dinner at the Hotel and Exchanges for Staff	

November 26th (Tuesday), 2019

Time	Affiliation	Name of Speaker	Title of Presentation	Chairpersons
9:00-9:15	FZU	Prof. Zhaohui Li	Oral-1 Photocatalytic organic transformations over ZnIn ₂ S ₄	Prof. Xinchen Wang (FZU)
9:16-9:31	OPU	Prof. Suguru Higashida	Oral-2 Photocatalytic oxidation for organic synthesis with TiO ₂ and AuNP/TiO ₂	Dr. Kenji Okada (OPU)
9:32-9:47	FZU	Prof. Yuekun Lai	Oral-3 Photocatalytic engineering TiO ₂ nanostructured films with controllable wettability for multifunctional applications	Prof. Xinchen Wang (FZU)
9:48-10:03	OPU	Prof. Masaya Matsuoka	Oral-4 Photocatalytic water splitting on MOF catalysts	Dr. Kenji Okada (OPU)
10:04-10:19	FZU	Prof. Wei Lin	Oral-5 Understanding the structures and photocatalytic properties of carbon nitride for a molecular level	Prof. Xinchen Wang (FZU)
10:19-10:34			Coffee Break	
10:34-10:49	UOH	Prof. Tohru Yamasaki	Oral-6 Developments of high-precision forming for metallic materials in University of Hyogo	Prof. Masaya Matsuoka (OPU)
10:50-11:05	FZU	Prof. Fushan Li	Oral-7 Inkjet-printed quantum dot luminant thin films and their applications	Prof. Zhaohui Li (FZU)
11:06-11:21	Riken	Dr. Yoichi M. A. Yamada	Oral-8 Development of highly active and reusable polymeric metal catalysts and their application to photocatalysis	Prof. Masaya Matsuoka (OPU)

11:22-11:37	FZU	Prof. Yi-Jun Xu	Oral-9 Promoting optical absorption of metal nanoparticles by recycling near-field photons	Prof. Zhaohui Li (FZU)
11:38-11:53	OPU	Assoc. Prof. Yasushi Takahashi	Oral-10 Raman silicon high- Q nanocavity laser: laser development using indirect bandgap semiconductor	Prof. Masaya Matsuoka (OPU)
11:54-12:09	UOH	Prof. Nobuhiro Kawatsuki	Oral-11 Photofunctionality of liquid crystalline polymers containing <i>N</i> -benzylideneaniline derivatives	Prof. Masaya Matsuoka (OPU)
12:09-14:00			Luncheon Poster Session (Lobby floor)	Dr. Chaojun Shen (FZU)
14:00-14:15	FZU	Assoc. Prof. Yuanxing Fang	Oral-12 Polymeric carbon nitride for photoelectrochemical water splitting	Prof. Fushan Li (FZU)
14:16-14:31	OPU	Dr. Kenji Okada (OPU)	Oral-13 Directing pores in framework compounds for multifunctional material	Prof. Nobuhiro Kawatsuki (UOH)
14:32-14:47	FZU	PhD student Ke Wang	Oral-14 Photo-assisted methanation over Ru/TiO ₂ -Investigation the role of surface hydroxyls	Prof. Fushan Li (FZU)
14:48-15:03	OPU	Assoc. Prof. Yu Horiuchi	Oral-15 Strategy for enhancing photocatalytic activity of metal organic frameworks	Prof. Nobuhiro Kawatsuki (UOH)
15:03-15:18			Coffee Break	
15:18-15:33	UOH	Assoc. Prof. Jun-ichi Nishida	Oral-16 Preparation and photophysical studies of donor-acceptor-type phthalimide compounds showing triboluminescence	Prof. Suguru Higashida (OPU)
15:34-15:49	FZU	Assoc. Prof. Li Tan	Oral-17 Methanol partial oxidation over bimetallic site single atom catalyst	Prof. Sen Lin (FZU)
15:50-16:05	FZU	Assoc. Prof. Chengkai Yang	Oral-18 Effect of defects in layered structures on intercalation/deintercalation of Li ⁺ for lithium ion batteries	Prof. Sen Lin (FZU)
16:06-16:21	FZU	Prof. Xinghui Wang	Oral-19 VACNT supported alloy-type anode films for high performance lithium ion batteries	Prof. Sen Lin (FZU)
16:21-16:36			Coffee Break	

16:36-16:51	OPU	PhD student Ken Ikigaki	Oral-20 In-plane oriented covalent organic framework (COF) films grown on metal-hydroxides	Assoc.Prof. Yu Horiuchi (OPU)
16:52-17:07	UOH	Dr. Keishiro Tahara	Oral-21 Generation of photo-induced mixed-valence subspecies with charge-separated characters	Assoc.Prof. Yu Horiuchi (OPU)
17:08-17:23	UOH	Dr. Mizuho Kondo	Oral-22 Directional mechanochromic behavior of liquid crystalline polymeric composite	Assoc.Prof. Yu Horiuchi (OPU)
17:24-17:39	FZU	Prof. Sen Lin	Oral-23 BCN monolayer as a promising metal-free photocatalyst for overall water splitting	Assoc. Prof. Yuanxing Fang (FZU)
17:40-17:55	FZU	Assoc. Prof. Baisheng Sa	Oral-24 Enhanced photocatalytic performance of black phosphorene by isoelectronic co-dopants	Assoc. Prof. Yuanxing Fang (FZU)
17:56-18:01	FZU	Prof. Masakazu Anpo	Closing Remarks	Prof. Fushan Li (FZU)
18:02-18:30		Committee of Poster Evaluation	Committee of Poster Evaluation for Awards	Dr. Chaojun Shen (FZU) MS. Qing Chen (FZU) Prof. Masakazu Anpo (FZU)
18:50-20:30	FZU UOH	Award Presenter; Chairman Prof. Xianzhi Fu Prof. Nobuhiro Kawatsuki	Banquet Excellent Poster Award Ceremony Introduction of the next venue (University of Hyogo)	Dean, College of Chemistry Prof. Xinchun Wang (FZU)