The 3rd OU-SKKU Bilateral Symposium on Photofunctional Materials and Nanointerfaces

Day 1 (Nov. 18th), Meeting room, 2nd floor, 50th Anniversary Hall

	(Chair: Prof. Tomoyuki Tajima)
13:00 – 13:15	Opening
13:15 – 14:00	Prof. Young Dok Kim (SKKU)
	"Fe-deposited TiO ₂ as photocatalyst for removing atmospheric pollutants:
	from fundamental aspect to real applications"
14:00 – 14:30	Prof. Yutaka Takaguchi (OU)
	"Solar water splitting using semiconducting single-walled carbon nanotubes"
14:30 – 14:45	Break
	(Chair: Prof. Seiji Obata)
14:45 – 15:15	Prof. Nobuyuki Takeyasu (OU)
-	"Fabrications & Applications of Plasmonic Structures"
15:15 – 15:45	Prof. Shunsuke Nishimoto (OU)
	"Self-cleaning property of Nb-based thin film surface"
15:45 – 16:15	Prof. Toshihiko Kiwa (OU)
	"Terahertz Chemical Microscopy ~ Challenge to visualize chemical reactions~"
16:15 – 16:30	Break
	(Chair: Prof. Nobuyuki Takeyasu)
16:30 – 17:00	Prof. Eiji Matsuura (OU)
	"New era of <i>in vivo</i> molecular imaging and targeting medicine: antibody-
	based theranostics"
17:00 - 17:45	Prof. Tae Kyu Ahn (SKKU)
	"Photophysics of Light-induced Devices"
17:45 – 18:00	Photo-session

(Welcome reception)

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Day 2 (Nov. 25th), Meeting room, 2nd floor, 50th Anniversary Hall

	(Chair: Prof. Yutaka Takaguchi)
08:45 - 09:00	Opening
09:00 - 09:30	Prof. Yuta Nishina (OU)
07.50	"Production and Application of 2D Nanocarbons"
09:30 - 09:45	Ms. Zhenru Zhnag (D2, SKKU)
0,130 0,110	"The Mechanism and Kinetics of Photocatalytic Reaction for Degradation of
	Volatile Organic Compounds"
09:45 - 10:00	Mr. Lei Wang (D3, OU)
10.00	"Excited-state intramolecular proton transfer (ESIPT) fluorescence of amido-
	substituted 2,3-naphthalimides and responses to Ca ²⁺ ions"
10:00 – 10:15	Mr. Masaharu Naito (M1, OU)
	"Carbon-Nanotube-based photocatalysts for Water Splitting in Cooperation
	with BiVO ₄ and $[Co(bpy)_3]^{3+/2+}$,
10:15 - 10:30	Break
	(Chair: Prof. Tomoyuki Tajima)
10:30 – 10:45	Mr. Yuki Hashimoto (M2, OU)
	"Synthesis and Optical Properties of Silver Dendrite"
10:45 - 11:00	Mr. Yang Zhou (M2, OU)
	"Synthesis of nitrogen-doped nanocarbons by fusion of metal catalysis and
	solution plasma process"
11:00 - 11:15	Mr. Sun Gu Song (D3, SKKU)
	"Single-walled carbon nanotube based chemo-capacitive sensors for selective
	detection of chemical warfare agents with molecular receptors"
11:15 – 11:30	Mr. Masahiro Yamagami (M2, OU)
	"Physical Modification of Carbon Nanotubes with a Dendrimer bearing
	Terminal Mercaptoundecahydrododecaborates (Na ₂ B ₁₂ H ₁₁ S) toward in-vivo
	Imaging of Boron Neutron Capture Therapy Agents"
11:30 - 11:45	Mr. Tetsuya Fujita (M1, OU)
	"Dependence of plasmon-mediated chemical reaction on excitation
	wavelength using a silver nanoparticle 2D array"
11:45 – 12:00	Mr. Mohammed Zahedul Islam Nizami (D3, OU)
	"Functionalized graphene oxide nanoparticles prevent tooth dentin
	decalcification"
12:00 - 13:30	Lunch
	(SKKU's students visit JASSO scholarship office)
13.30 - 13.45	Take a Photo in front of the conference hall!

	(Chair: Prof. Nobuyuki Takeyasu)
13:45 – 14:15	Prof. Takashi Tamura (OU)
	"Molecular evolution of [NiFeSe]hydrogenases resurrected by phylogeny and
	molecular dynamics simulation"
14:15 – 14:30	Mr. Byeongjun Cha (D1, SKKU)
	"Hydrophilic surface modification on TiO ₂ to improve sustainability of
	photocatalytic activity"
14:30 – 14:45	Mr. Hibiki Hakamazuka (M1, OU)
	"Photo-induced H ₂ Evolution from Water via the Dissociation of Excitons in
	Water-Dispersible Single-Walled Carbon Nanotube Sensitizers"
14:45 – 15:00	Mr. Rizwan Khan (D2, OU)
	"A simple and robust functionalization of graphene by onium bonding"
15:00 – 15:15	Break
15 15 15 20	(Chair: Prof. Yuta Nishina)
15:15 – 15:30	Mr. Taiji Kinocuhi (M2, OU)
15.00 15.15	"Simulation of dielectric core-metal nanoparticle satellite structure"
15:30 – 15:45	Mr. Yeonsig Nam (D3, SKKU)
	"Theoretical investigation for the influence of oxygen defect location on
	charge carrier dynamics in TiO ₂ nanoparticles"
15:45 – 16:00	Mr. Syogo Okabe (M2, OU)
	"Photoinduced Electron Transfer in a MoS ₂ /Anthracene Mixed-Dimensional
	Heterojunction in Aqueous Media"
16:00 – 16:15	Mr. Ryo Nakagawa (M1, OU)
1615 1620	"Development of mediator molecules for anode in biofuel cells"
16:15 – 16:30	Mr. Yuki Takeuchi (M2, OU)
	"Reactivity of Hot Carrier Generated by Plasmon"
16:30 – 16:45	Break
	(Chair: Prof. Tae Kyu Ahn)
16:45 - 17:00	Mr. Ryohei Sagawa (M1, OU)
	"Molecular Design of Benzothiadiazole-Based Dyes for Working with Carbon
	Nanotube Photocatalysts"
17:00 - 17:30	Prof. Seiji Obata (OU)
	"Graphene growth from graphene oxide on various substrates"
17:30 – 17:45	Mr. Seonggyun Ha (D3, SKKU)
	"Thiourea-based Aromatic Gels: Anion-Responsive Soft Actuator and Sensor"
17:45 – 18:15	Prof. Hideki Okamoto (OU)
	"Photochemical synthesis of phenacenes and the application to OFET devices"
18:15 - 18:25	Closing

(Get-together)