

# Workshop on Materials Technology and Innovation for Energy and Environment (Japan time version)

10, Nov. 2020

King Mongkut's University of Technology Thonburi (KMUTT)  
University of Tsukuba (UT)

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12:00-12:10            University of Tsukuba    Prof. Junji Nakamura    Opening remark

**Chair: Assistant Prof. Hiroshi Yamagishi (University of Tsukuba)**

Time	No	Affiliation	Presenter	Title
12:10-12:30	P1	University of Tsukuba	Prof. Takashi Suemasu	Earth-abundant new materials for PV and spintronics applications
12:30-12:50	P2	KMUTT	Assoc. Prof. Dr. Vissanu Meeyou	Methanation of CO <sub>2</sub> and biogas upgrading
12:50-13:05	S1	University of Tsukuba	Taro Komori (Ph.D. Student)	Efficient current-induced domain wall motion in rare-earth free nitrides
13:05-13:20	S2	KMUTT	Dr. Mohammad Hossein Azarian (Post-doctoral researcher)	Dual-functional solid state chromogenic smart film based on gelatin biopolymer
13:20-13:35	S3	University of Tsukuba	Ikuo Kujiraoka (Master's Student)	Kinetic analysis of energetics in mitochondrial respiratory chain
13:35-13:55	P3	University of Tsukuba	Prof. Yohei Yamamoto	Self-assembled organic light-emitting and laser materials
13:55-14:15	P4	KMUTT	Dr. Chanchana Thanachayanont	Low-cost synthesis and characterization of metal oxides for energy and environment applications

14:15-15:30            **Short break**

**Chair: Dr. Nonsee Nimitsriwat (KMUTT)**

Time	No	Affiliation	Presenter	Title
15:30-15:50	P5	University of Tsukuba	Asst. Prof. Takeaki Sakurai	Compound semiconductor based solar energy devices ~photovoltaics and photocatalysis~
15:50-16:10	P6	KMUTT	Asst. Prof. Dr. Saiwan Nawalertpanya	Synthesis and characterization of hybrid VO <sub>2</sub> nanoparticle for smart material application
16:10-16:25	S4	KMUTT	Mr. Weeradesh Sangkhun	Localized surface plasmon resonance of Au/TiO <sub>2</sub> with exposed {001}-{010} facet used as photoanode material

			(Ph. D. Student)	for perovskite solar cell and water splitting application
16:30-16:45	S5	University of Tsukuba	Hendra (Ph.D. Student)	Connection of Polymer Microspheres Resonator by Polymer Fiber for Intersphere Optical Communication
16:45-17:00	S6	KMUTT	Mr. Kitti Yuwawech (Ph. D. student)	Preparation and characterizations of Iron oxide functionalized graphene nanoplatelets for use as barrier enhancing fillers in solar cell encapsulating film
17:00-17:20	P7	University of Tsukuba	Asst. Prof. Yasuo Norikane	Mechanical Motions by Photo-induced Crystal-to-Liquid Phase Transition of Azobenzene
17:20-17:40	P8	KMUTT	Asst. Prof. Dr. Sompit Wanwong	BODIPY dyes for optoelectronic devices

**17:40-18:00      Banquet: (Self-introduction) + Award announcement**

18:00-18:10      KMUTT    Prof. Jatuphorn      Closing remark  
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