





The 2nd International Workshop on Carbon Value Science & Technology

-  Date & Time: 9:00~18:00(Japanese Time), Thursday, January 18th, 2024
-  Venue: Zoom on-line at Tokyo University of Science (TUS)
-  Organized by Carbon Value Research Center (CVRC), Research Institute for Science and Technology (RIST), TUS
-  Cooperation: Consortium of All Nippon Artificial Photosynthesis Project for Living Earth (CanApple)
The Japanese Photochemistry Association
Catalysis Society of Japan

Time						Speaker	Title
Japan time	PST	EST	CST	GMT	CET		
Session 1: Artificial Photosynthesis & Biomass (Chair: Yumi Tanaka)							
1/18 9:00-9:05	1/17 16:00-16:05	1/17 19:00-19:05	1/18 8:00-8:05	1/18 0:00-0:05	1/18 1:00-1:05	Akihiko Kudo CVRS, TUS	Opening remarks Introduction of CVRC
9:05-9:45	16:05-16:45	19:05-19:45	8:05-8:45	0:05-0:45	1:05-1:45	(Invited) Shane Ardo (Univ. of California Irvine, USA)	Advancing the Fundamental Science of Photocatalysis with Single Particle Correlative Microscopy and Numerical Modeling
9:45-10:25	16:45-17:25	19:45-20:25	8:45-9:25	0:45-1:25	1:45-2:25	(Invited) Takeshi Morikawa (Toyota Central R&D Labs., Inc., Japan)	Light energy storage in CO ₂ molecules by photosystems composed of semiconductors and molecular metal-complex catalysts
10:25-11:05	17:25-18:05	20:25-21:05	9:25-10:05	1:25-2:05	2:25-3:05	(Invited) Julia Valla (Univ. of Connecticut, USA)	Current and Future trends of sustainable and clean energy and fuels
Group photo shoot (Yuichi Yamaguchi)							
11:10-11:30 Break time							
Session 2: Presentation from CVRC at TUS (Chair: Kawawaki Tokuhisa)							
11:30-11:50	18:30-18:50	21:30-21:50	10:30-10:50	2:30-2:50	3:30-3:50	Akihiko Kudo CVRS, TUS	Green H ₂ production and CO ₂ utilization using powdered photocatalysts
11:50-12:10	18:50-19:10	21:50-22:10	10:50-11:10	2:50-3:10	3:50-4:10	Yuichi Negishi CVRS, TUS	Activation of Energy and Environmental Catalysts by Controlling Particle Size at Atomic Precision
12:10-12:30	19:10-19:30	22:10-22:30	11:10-11:30	3:10-3:30	4:10-4:30	Chiaki Terashima CVRS, TUS	Plasma chemistry for carbon neutral
12:30-12:50	19:30-19:50	22:30-22:50	11:30-11:50	3:30-3:50	4:30-4:50	Shinichi Komaba CVRS, TUS	Carbon electrodes for next-generation sustainable batteries
12:50-14:30 Lunch							
Session3: Artificial photosynthesis & CO ₂ reduction (Chair: Kiyoshi Dowaki)							
14:30-15:10	21:30-22:10	1/18 0:30-1:10	13:30-14:10	5:30-6:10	6:30-7:10	(Invited) Can Li (Dalian Institute of Chemical Physics, China)	Liquid sunshine methanol synthesis, a practical artificial photosynthesis
15:10-15:50	22:10-22:50	1:10-1:50	14:10-14:50	6:10-6:50	7:10-7:50	(Invited) Noritatsu Tsubaki (Univ. of Toyama, Japan)	Powerful Catalysts Designed for Value-Added Carbon-Neutral Energy and Chemical Products Synthesis
15:50-16:20 Break time							

Session 4: Photocatalyst & Rechargeable Ion Battery (Chair: Yuichi Yamaguchi)							
16:20-17:00	23:20-1/18 0:00	2:20-3:00	15:20-16:00	7:20-8:00	8:20-9:00	(Invited) Sebastian Sprick (Univ. of Strathclyde, UK)	Conjugated polymer photocatalysts for solar fuels generation
17:00-17:40	0:00-0:40	3:00-3:40	16:00-16:40	8:00-8:40	9:00-9:40	(Invited) Martin Winter (Univ. of Muenster, Germany)	Towards Green Batteries: Opportunities, Challenges and Misconceptions
17:40-17:50	0:40-0:50	3:40-3:50	16:40-16:50	8:40-8:50	9:40-9:50	Hiroshi Nishihara (Director RIST, TUS)	Closing remarks
Group photo shoot (Yuichi Yamaguchi)							

PST: Pacific Standard Time EST: Eastern Standard Time
CST: Chinese Standard Time GMT: Greenwich Mean Time
CET: Central European Time
Presentation time including 5-10 min for discussion.

【Conference Chair】

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【Organizing Committee】

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Tatsushi Imahori
Tokuhisa Kawawaki
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Yuichi Negishi
Yumi Tanaka
Chiaki Terashima
Yuichi Yamaguchi