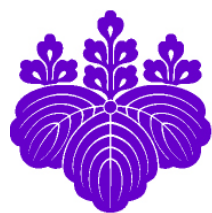


The 8th Southeast  
Asia Collaborative  
Symposium on Energy  
Materials (SACSEM)



*University of Tsukuba*

28 - 29

November

2022

**The 8th Southeast Asia Collaborative Symposium  
on Energy Materials (SACSEM 8th)  
28-29, Nov. 2022**

**Invited Speaker: Presentation (15 min.) + Discussion (4 min.) + Change (1 min.)  
Student Speaker: Presentation (10 min.) + Discussion (4 min.) + Change (1 min.)**

**Day 1**

**28th November 2022 (Japan time)**

**Chair: Prof. Yohei Yamamoto**

Time	No	Affiliation	Presenter	Title
16:00-16:15	OP	UT	Prof. Yohei Yamamoto	Opening remark and Introduction of research in MI and TREMS
16:15-16:35	I01	UT	Prof. Takahiro Kondo	Hydrogen boride and boron monosulfide sheets
16:35-16:55	I02	NIMS	Prof. Sepehri Amin Hossein	Tuning the hysteresis of magnetic materials by microstructure engineering
16:55-17:15	I03	AIST	Prof. Yuichiro Himeda	Development of Catalysts in CO <sub>2</sub> Utilization for Storage and Production of H <sub>2</sub>
17:15-17:35	I04	ITB	Dr. Muhammad Iqbal	In Search of Excellence: Convex versus Concave Noble Metal Nanostructures for Electrocatalytic Applications
17:35-17:55	I05	UKM	Prof. Lorna Jeffery Minggu	Photoelectrochemical Hydrogen Production Using Earth Abundant Metal Oxide Photoelectrodes
17:55-18:15	I06	UKM	Dr. Vidhya Selvanathan	Organosoluble Starch and Cellulose derivatives in DSSC: Unravelling the Synergy between Electrolyte Rheology and Photovoltaic Properties

**18:15-18:30 Short break**

**Chair: Assoc. Prof. Takahiro Kondo**

Time	No	Affiliation	Presenter	Title
18:30-18:50	I07	UTP	Dr. Lila Iznita Izhar	A Preliminary Study on Effectiveness of Brief Mindfulness in Reducing Stress and Anxiety among Students with High Neuroticism based on Peripheral Physiological Data

18:50-19:10	I08	KMUTT	Prof. Navadol Laosiripojana	Lignin Fractionation and Valorization Platforms for Converting Potential Biomasses to Industrial- Needed Macromolecular Building Block Products
19:10-19:30	I09	UDE	Dr. Sven Reichenberger	Identification of Structure-Activity Correlations by Pulsed Laser Defect Engineering in Liquids
19:30-19:50	I10	UDE	Prof. Heiko Wende	Functional magnetocaloric materials on atomic length scales: an element specific perspective
19:50-20:10	I11	ECNU	Prof. Shaoqiang Chen	Lasing Dynamics in Perovskite Microcavities
20:10-20:30	I12	UPD	Prof. Elmer Estacio	Overview of the academic and research profiles of the National Institute of Physics, University of the Philippines and its work on Terahertz optoelectronics
20:30-20:50	I13	KEK	Prof. Kenta Amemiya	Real-time Observation of Surface Chemical Reactions by Wavelength-dispersive Soft X-ray Absorption Spectroscopy

## Day 2

**29th November 2021 (Japan time)**

**Chair: Prof. Muneaki Hase**

Time	No	Affiliation	Presenter	Title
14:00-14:15	S01	UT	Mr. Fadilla Akhmad Fadel	Development of synthesis method for metal-substituted-type $\lambda$ -Ti <sub>3</sub> O <sub>5</sub>
14:15-14:30	S02	UT	Mr. Kentaro Maejima	Abrupt vapor release from porous molecular crystal with visible light
14:30-14:45	S03	ITB	Mr. Fathan Aditya Sanjaya	Study on Mechanism of Fenton Catalyst from Grinding Spark of Waste Metal for Textile Industry Dye Pollutant
14:45-15:00	S04	ITB	Ms. Chandra Wulandari	Modification of Surface Plasmon Resonance (SPR) Biosensor using MoS <sub>2</sub> -MoO <sub>3</sub> Hybrid Microflowers for CFP-10 Tuberculosis Detection
15:00-15:15	S05	ITB	Mr. Muhammad Yovinanda Maulana	Functionalization of Magnetic Fluorescent Silica Nanoparticles with Angiotensin-Converting Enzyme II for Detection of Severe Acute Respiratory Syndrome Coronavirus-2
15:15-15:30	S06	UKM	Ms. Syaza Amira Binti Razali	Deep Eutectic Solvent Assisted Ionothermal Synthesis of Cobalt Based Metal-organic Complex as Electrode Material in Supercapacitors



15:30-15:45	S07	UKM	Mr. Md. Mahfuzul Haque	Developing High Stable Perovskite Solar Cell Using RF Magnetron Sputtered Mo-doped Tungsten Oxide as Electron Transport Layer
15:45-16:00	S08	UTP	Mr. Mohamad Adil Iman Bin Ishak	Molecular Insight into Hybridization of Metal-Organic Frameworks and Choline-based Ionic Liquids (MOF-IL) for Gas Adsorption
16:00-16:15	S09	UTP	Mr. Mohd Sofi Bin Numin	Theoretical Studies of Quaternary Ammonium Surfactant Corrosion Inhibitors on Fe (110) in Acetic Acid Media via DFT Calculation and MD Simulation

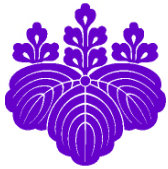
16:15-16:30 Short break

## Chair: Assoc. Prof. Masaki Hada

Time	No	Affiliation	Presenter	Title
16:30-16:45	S10	KMUTT	Ms. Chanakarn Piwuan	Preparation of Au-CsWO <sub>3</sub> Nanocomposites and Near-Infrared Shielding Performance of the Materials: A feasibility study
16:45-17:00	S11	KMUTT	Ms. Wassana Lekkla	Utilization of Cellophane Paper as Flexible Substrates in Perovskite Solar Cells
17:00-17:15	S12	KMUTT	Ms. Saravy Dum	Recovering of Silicon Wafers for Silicon Fine Particles Production
17:15-17:30	S13	UDE	Ms. Johanna Lill	Nuclear resonant scattering for hysteresis design of magnetocaloric materials
17:30-17:45	S14	UDE	Mr. Timo Wagner	Changing surface morphology and chemistry by scalable atmospheric pressure plasma treatment
17:45-18:00	S15	ECNU	Mr. Youyang Wang	Computer-Vision-Aided Solar Cell Defect Detection and Classification in Absolute Electroluminescence Imaging
18:00-18:15	S16	ECNU	Ms. Rui Wang	Improving Vapor-Transport-Deposited Sb <sub>2</sub> S <sub>3</sub> Thin-Film Solar Cells through Source Position Optimization
18:15-18:30	S17	UPD	Mr. Vince Paul Juguilon	Carrier capture dynamics in InAs/GaAs self-assembled quantum dots investigated using time-resolved terahertz spectroscopy
18:30-18:45	S18	UPD	Mr. Jared Operaña	Goos-Hänchen Shifts in low-loss dielectrics: Experimental observations in Si substrate
18:45-	CL	UT	Prof. Muneaki Hase	Closing remark

19:00-	BA			Discussion Session at Each University
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Institut Teknologi Bandung (ITB, Indonesia)
Universiti Kebangsaan Malaysia (UKM, Malaysia)
Universiti Teknologi PETRONAS (UTP, Malaysia)
King Mongkut's University of Technology Thonburi (KMUTT, Thailand)
Universität Duisburg-Essen (UDE, Germany)
East China Normal University (ECNU, China)
University of the Philippines Diliman (UPD, Philippine)
University of Tsukuba (UT, NIMS, AIST, KEK, Japan)



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