

Program

	Time	Program	Speaker	
9/2	18:30-20:00	Welcome Reception (LALA Kitchen at NCTU)		
9/3	8:30-9:00	Registration		
	9:00-9:10	Opening Remark	NCTU President Chang	
	9:10-9:20	Introduction of the workshop	Dean Kung-Hwa Wei	
	9:20-9:25	Group Photo		
	Session 1 Chair: Dean Kung-Hwa Wei			
	9:25-9:50	Talk 1-1: Can AI help sustain reliability analysis of 3D IC mobile devices?	King-Ning Tu (NCTU)	
	9:50-10:15	Talk 1-2: Strategies toward High Efficiency Organic and Perovskite Solar cells	Yang Yang (UCLA)	
	10:15-10:35	Coffee Break		
	10:35-11:00	Talk 1-3: Enhance the Brightness and Efficiency of Perovskite-based Light-Emitting Diodes at the Low Current Regime	Tzung-Fang Guo (NCKU)	
	11:00-11:25	Talk 1-4: Emerging Photovoltaic Devices for low-power indoor applications	Fang-Chung Chen (NCTU)	
	11:25-11:50	Talk 1-5: Charge Transport Layers for Efficient Perovskite Solar Cells	Dr. Chih-Wei Chu (AS)	
	12:00-13:20	Buffet Lunch (In front of Auditorium Hall)		
	Session 2 Chair: Prof. Yung-Jung Hsu			
	13:20-13:45	Talk 2-1: ZnO/Au Layered Silk Prepared by Supercritical CO ₂ Promoted Electrodeposition toward Applications in Flexible Electronic Device	Masato Sone (Tokyo Tech)	
	13:45-14:10	Talk 2-2: Mesoporous Transition Metal Oxides for Photocatalytic Overall Water Decomposition	Junko Kondo (Tokyo Tech)	
	14:10-14:35	Talk 2-3: Development of electrocatalysts based on first-row transition metal oxides	Akira Yamaguchi (Tokyo Tech)	
14:35-15:00	Talk 2-4: High-Resolution MEMS	Daisuke Yamane (Tokyo Tech)		

	Accelerometer by Multi-Layer Metal Technology	
15:00-15:20	Coffee Break& Poster Session	
Session 3 Chair: Department Chair of MSE Chih Chen		
15:20-15:45	Talk 3-1: Why Soft Processing (=Low-Energy Production) of Advanced Materials is Difficult but Necessary for Sustainable Society?	Masahiro Yoshimura (NCKU/Tokyo Tech)
15:45-16:10	Talk 3-2: Optical-Switchable Energy Transfer by Multiple-Responsive Metal-Ligand and Host-Guest Interactions in Supramolecular Polymer and Related Sensor Applications	Hong-Cheu Lin (NCTU)
16:10-16:35	Talk 3-3: Cathodic Deposition of Metal Oxide Photocatalysts under High-Pressure Environment	Tso-Fu Mark Chang (Tokyo Tech)
16:35-17:00	Talk 3-4: Toward artificial photosynthesis: Photocatalytic reduction of CO2 using metal complex photocatalyst as key players	Yusuke Tamaki (Tokyo Tech)
18:00-20:00	Banquet (Landis Inn -Versailles)	
Session 4 Chair: Prof. Jeng-Kuie Chang		
9:00-9:25	Talk 4-1: Donor-acceptor (D-A) conjugated polymers for photovoltaic applications and morphology characterization by X-ray Scattering Techniques	Yu-Wei Su (FCU)
9:25-9:50	Talk 4-2: Applications of Microporous Metal-Organic Frameworks in Hydrogen Storage	Cheng-Yu Wang (NCTU)
9:50-10:15	Talk 4-3: Anodization of Ti-Nb-Ta-Zr-O Mixed-oxides Nanotubes Array for Photoelectrochemical Water Splitting	Chun-Yi Chen (Tokyo Tech)
10:15-10:35	Coffee Break	
Session 5		

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Chair: Asst. Prof. Cheng-Yu Wang

10:35-11:00	Talk 5-1: Realization of dual gas sensors using magnetic structures	Yuan-Chieh Tseng (NCTU)
11:00-11:25	Talk 5-2: Composite anodes and electrolytes for sodium-ion batteries	Jeng-Kuei Chang (NCTU)
11:25-11:50	Talk 5-3: High Thermoelectric Performance of Bismuth Telluride Based Nanostructured Films	Chun-Hua Chen (NCTU)
11:50-12:15	Talk 5-4: Magnetism of topological insulator for dissipationless spin transport	Chao-Yao Yang (UCLA)
12:15-12:20	Closing Remark & Poster Awarding Ceremony	Dean Kung-Hwa Wei