

Poster Presentation program in iWMK 2021 (Zoom)



November 18th (Thu.) Group 1 : 10:00-11:30 / Group 2 : 12:00-13:30 / Group 3 : 16:00-17:30

Each group:

90min

Time (JST):		Presenter				
9:55-10:00		Session Guide Dr. Ken Man				
Group 1 10:00-11:30	Chung Yuan Christian University Hong-Li Yang Effect of Carbon Quantum Dots addition on formation mechanism of cellulose acetate membrane	Chung Yuan Christian University Chen-Hua Hsu Zwitterionic PVDF Membranes Blend with Phosphobetaine copolymer via VIPs for anti-biofouling	National Taiwan University of Science and Technology Cong-Han Huang Tailoring of a Piezo-Photo-Thermal Solar Evaporator for Simultaneous Steam and Power Generation	National Taiwan University of Science and Technology Jitrakorn Udomsin Preparation of superhydrophilic/underwater superoleophobic carbon nanotube/polymer membranes for highly efficient separation of crude oil-in-water emulsions	National Taiwan University of Science and Technology Shih-Lan Chan Effect of composition of few-layered transition metal dichalcogenide nanosheets on separation mechanism of hydrogen selective membranes	University of Arkansas Mahmood Jebur An integrated membrane distillation process for treating hydraulic fracturing produced water
	University of Arkansas Solomon Isu Elucidating the foulants that plug virus filters during virus filtration of protein therapeutics	University of Arkansas Zhexi Zhu Conversion of Food Waste to Levulinic Acid Using a Catalytic Membrane Reactor	Hanyang University Seung Yeon Yoo Indoor Air Quality Management and Utilization Using CO ₂ Selective Membrane System	Hanyang University Tae Hoon Lee Facile Suppression of Intensified Plasticization in Glassy Polymer Thin-films towards Scalable Composite Membranes for Propylene/Propane Separation	Hanyang University Byung Kwan Lee Surface modification of polyimide membranes with fluorine-containing diamines for efficient gas separation	
Group 2 12:00-13:30	Nanjing Tech University Guning Chen Ligand vapor induced in-situ formation of interconnected MOF transport channels in ultrathin mixed-matrix membranes	Nanjing Tech University Humin Chen Plasma Treatment-Fluorosilane Modified Omniphobic Graphene Oxide Membrane Used in Membrane Distillation	Nanjing Tech University Xi Chen UTSA-280 MOF incorporated 6FDA-polyimide mixed-matrix membranes towards ethylene/ethane separation: permeability matching between filler and polymer	University of Technology, Sydney JIAXI JIANG Critical flux on a submerged membrane bioreactor for nitrification of source separated urine	University of Technology, Sydney Chen Wang Inkjet printed polyelectrolyte multilayer membrane using a polyketone support for organic solvent nanofiltration	Zhejiang University Dan Lu Positively Charged Nanofiltration Membrane via Secondly Solvent-based Interfacial Reaction with PEI for Enhanced Selectivity of Li ⁺ over Mg ²⁺
	Zhejiang University Yi-Man Zhong Formation of Metal-Phytic Acid Surface Coatings via Oxidation-Mediated Coordination Assembly	Zhejiang University Wen-Han Yu Novel nanofiltration membrane based on amphiphilic polymer nanoparticles packing: preparation and application	Tiangong University SANIA KADANYO Mitigation of Organic Fouling of PSF/EVOH Mixed Matrix Membranes via Minimal Incorporation of HNTs Decorated with Mussel Inspired Ag Nanoparticles	Tiangong University CHRISTINE NYAWIRA MATINDI Polyethersulfone/Sulfonated Polysulfone Membranes Modified with Robust Antifouling Polyethyleneimine-TiO ₂ Layer for Oil-in-Water Emulsion Separation	Tsingha University Lei Wan Green preparation of highly alkali-resistant PTFE composite membranes for advanced alkaline water electrolysis	Tsingha University Mufei Li Green diluent selection of poly (4-methyl-1-pentene) membranes via thermally induced phase separation method
Group 3 16:00-17:30	Victoria University Maedeh Nadimi Membrane distillation coupled with oxidation processes for water/wastewater treatment: enhanced treatment capabilities, and future opportunities	Victoria University Mahdi Shahrooz Role of surface interactions in the design of membranes with enhanced resistance to colloidal fouling in membrane distillation: a review	Hong Kong University of Science and Technology Rans Miguel Nunag LINTAG Dual Membrane Ozone Reactor for Treatment of Water Pollutants	Universiti Teknologi Malaysia Stanley Chinedu Mamah Enhanced Desalination Performance in Reverse Osmosis Membrane Induced by Incorporated Acid Treated Polyglyskrite (A-PAL)	Institut Teknologi Bandung SETYO WIDODO Re-refining of Waste Engine Oil Using Ultrafiltration Membrane	Institut Teknologi Bandung Widda Rahmah Synthesis of high-aspect ratio SAPO-34 zeotype in the presence of polyethylene glycol
	Institut Teknologi Bandung Wildan Qoharisma Salam Purification and Crystallization of Microbial Xylitol from Hydrolysate of Lignocellulose using Membrane Technology	Kobe University Jinhui Zhang Interpenetrating polymer network-based tough ion gel membrane for efficient CO ₂ separation	Kobe University Pengfei ZHANG Preparation of antifouling PVDF hollow fiber membrane modification with zwitterionic copolymer via surface entrapment and subsequent reaction	Kobe University Titik Istirokhatun Development of polyimide nanofilm with enhanced inner-pore interconnectivity using Ag-based compound nanorods for high performance nanofiltration	Institut Européen des Membranes Jeanne Casetta GRAPHENE OXIDE (GO) ASSISTED POLYMERIC HOLLOW FIBERS MEMBRANES FOR WATER PURIFICATION	
17:30-17:35	Closing Speech Prof. Hideto Matsuyama					

神戸大学創立 120 周年記念 膜国際 WORKSHOP 2021 –iWMK2021–

主 催：神戸大学先端膜工学研究センター
 後 援：日本膜学会・化学工学会分離プロセス部会膜工学分科会・先端膜工学研究推進機構
 日 時：2021年11月19日(金) 8:55~18:35
 開催方法：神戸大学先端膜工学拠点 先端膜工学研究センターよりオンラインライブ配信 (ZOOM)

【プログラム】

総合司会	神戸大学 文 健
11/19(金)	8:55~9:00 センター長挨拶 教授 松山 秀人
	9:00~9:05 開会挨拶 神戸大学 理事・副学長 中村 保
	9:05~9:35 アーカンソー大学 (アメリカ) Professor S Ranil Wickramasinghe “Hydrolysis and Dehydration of Lignocellulosic Biomass using Catalytic Membranes: Fundamental Research to Commercialization”
	アーカンソー大学 (アメリカ) Professor Xianghong Qian “Multi-Scale Modeling Tools for the Membrane Formation Process via Phase Inversion by Nonsolvent and Thermal Induced Phase Separation”
	9:35~10:05 ビクトリア大学 (オーストラリア) Professor Mikel Duke “Current progress on novel membrane materials and separations for desalination and industrial wastewater treatment”
	10:05~10:35 国立台湾科技大学(台湾) Professor Chih-Feng Wang “Preparation of superwetting materials for oil/water mixtures and emulsions separations”
	10:35~11:05 中原大学 (台湾) Professor Da-Ming Wang “Control of crystal polymorphism of poly(vinylidene fluoride) membranes - effects of solvent polarity and removal rate”
	11:05~11:35 シドニー工科大学 (オーストラリア) Professor Ho Kyong Shon “Novel inkjet-printing assisted composite membranes for organic solvent nanofiltration”
	11:35~13:00 休憩・昼食
	13:00~13:30 浙江大学 (中国) Professor Zhikan Yao “Thin film composite membrane prepared on reactable substrate via interfacial polymerization”
	13:30~14:00 香港科技大学(香港) Professor King Lun YEUNG “Inorganic dual membrane reactor for ozone treatment of recalcitrant pollutants”
	14:00~14:30 バンドン工科大学(インドネシア) Dr. Helen Julian “Membrane Technology in Food Processing: Current Research in ITB”
	14:30~14:45 休憩
	14:45~15:15 南京工業大学(中国) Mr. Long Cheng “Manipulating the interlayer channel of graphene oxide membranes for H2 purification”
	15:15~15:45 マレーシア工科大学(マレーシア) Professor Ahmad Fauzi Ismail “Construction of CO2-separative membranes through polymer and nanofiller design”
	15:45~16:15 神戸大学大学院工学研究科 准教授 神尾 英治 “Development of Ionic Liquid-based Gel Membrane for CO2 Separation”
	16:15~16:30 休憩
	16:30~17:00 天津工業大学 (中国) Professor Yunxia Hu “High-flux organic solvent nanofiltration membrane with rigid-flexible microporous structures”
	17:00~17:30 清華大学 (中国) Professor. Yuan-hui Tang “Effect of polymer chain flexibility on the membrane formation via NIPS and N-TIPS processes from dissipative particle dynamics simulations”
	清華大学 (中国) Dr. Yakai Lin “Preparation of PMP hollow fiber membranes for ECMO by thermally induced phase separation method”
	17:30~18:00 Institut Européen des Membranes (フランス) Professor Sebastien Balme “Track-etched membranes for simultaneous separation and detection of biomarkers”
	18:00~18:30 神戸大学先端膜工学研究センター長 教授 松山 秀人 “Recent research activities at Membrane Center of Kobe University”
	18:30~18:35 閉会挨拶 神戸大学先端膜工学研究センター 教授 吉岡 朋久

