

Poster Presentation program in iWMK 2022 (Zoom)



November 17th (Thu.) Group 1 : 10:00-10:40 / Group 2 : 11:00-11:40

Time (JST):		Presenter			
9:50-10:55	Opening Speech	Prof. Hideto Matsuyama			
9:55-10:00	Session Guide				
Group 1 10:00-10:40	One-minute presentation @Main Room	10:00-10:01 University of Arkansas Thomas McKean Development of Anion Exchange Membranes for the Removal of Nitrates in Nitrate Vulnerable Zones	10:01-10:02 University of Arkansas Eric Vincent Ledieu The Effects of Ionic Additives on PVDF Conformations from Molecular Dynamic Simulations	10:02-10:03 Nanjing Tech University Wenqi Ji Facile fabrication of rGO-PVDF nanofibrous membrane with high flux and stability for desalination by membrane distillation	10:03-10:04 Nanjing Tech University Jiahui Li High-flux corrugated PDMS composite membrane fabricated by using nanofiber substrate
		10:04-10:05 Zhejiang University Wen-Han Yu Novel nanofiltration membrane based on amphiphilic polymer nanoparticles packing: preparation and application	10:05-10:06 Zhejiang University Yu-Kun QIAN Investigation of Pollutant Degradation in a Catalytic Dual Membrane Reactor under Ozone Oxidation	10:06-10:07 University of Technology, Sydney Hanwei Yu Selectively lithium extraction from brines using MOF-based membrane capacitive deionization	10:07-10:08 Tsinghua University Huan Qin Harvesting Osmotic Energy from Proton Gradients Enabled by Two-Dimensional Ti3C2Tx MXene Membranes
		Q & A 10:10-10:40		Go to each Breakout Room	
	Group 1 Closing & Break				
Group 2 11:00-11:40	One-minute presentation @Main Room	11:00-11:01 Singapore Membrane Consortium Angie Ng Qi Qi Mechanistic insights into membrane fouling mechanism during ultrafiltration of high-concentration proteins	11:01-11:02 Singapore Membrane Consortium Hao Deng Machine Learning Guided Polyamide Membrane with Exceptional Solute-Solute Selectivity and Permeance	11:02-11:03 Victoria University Carl Benjamin Haby Ion Exchange Membranes Integrated with Electro Chemistry in the Kraft Pulping Process	11:03-11:04 Hong Kong University of Science and Technology Rans Miguel Nunag LINTAG Investigation of Pollutant Degradation in a Catalytic Dual Membrane Reactor under Ozone Oxidation
		11:04-11:05 Tiangong University Jintao He Highly-Efficient Adsorptive Separation of Cs+ from Aqueous Solutions by Porous Polyimide Membrane Containing Dibenzo-18-Crown-6	11:05-11:06 Tiangong University Shuang Hao Impact of hPG molecular size on the separation properties and antifouling performances of hPG-modified thin-film composite nanofiltration membrane	11:06-11:07 Institut Teknologi Bandung Widda Rahmah PAltering the crystal size and morphology of SAPO-34 zeotype in the presence of polyethylene glycol as non-reactive additive	11:07-11:08 Kobe University SONG QIANGQIANG A Zwitterionic Copolymer-Interlayered Ultrathin Nanofilm with Ridge-shaped Structure for Ultrapermearable Nanofiltration
		11:08-11:09 Kobe University Siyu Zhou Confined nanoparticles in graphene oxide laminates for enhanced membrane performance			
	Q & A 11:10-11:40		Go to each Breakout Room		
Group 2 Closing					

膜国際 WORKSHOP 2022 –iWMK2022–

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：2022年11月17日(木) 10:00~16:30 / 11月18日(金) 8:50~18:05

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

11/17(木)

10:00~11:40 学生 Poster 発表
(Group 1 :10:00-10:40 / Group 2 :11:00-11:40)

15:30~16:30 特別招待講演
南洋理工大学 (シンガポール) Professor Rong WANG
“Development of Highly Effective Reverse Osmosis Membranes for Seawater Desalination”

11/18(金)

8:50~8:55 センター長挨拶 教授 松山 秀人
8:55~9:00 開会挨拶 神戸大学 理事・副学長 河端 俊典
9:00~9:30 アーカンソー大学 (アメリカ) Professor S Ranil Wickramasinghe
“Tangential flow filtration using reverse asymmetric membrane for CHO cell harvesting”
アーカンソー大学 (アメリカ) Professor Xianghong Qian
“Factors Affecting Robustness of Anion Exchange Chromatography: Selective Retention of Minute Virus of Mice Using Membrane Media”
9:30~10:00 ビクトリア大学 (オーストラリア) Professor Stephen Gray
“Overview of Reverse Osmosis Silica Scaling and Management - an opportunity for design of new membranes?”
10:00~10:30 神戸大学大学院工学研究科 教授 丸山 達生
“Outermost surface engineering for plastics”
10:30~11:00 中原大学 (台湾) Professor Antoine Venault
“Incorporating functional properties into membranes for killing microorganisms, degrading antibiotics or selectively catching/releasing cells during filtration”
11:00~11:30 シドニー工科大学 (オーストラリア) Professor Ho Kyong Shon
“Desalination and Resource Recovery Using Membrane Capacitive Deionization”

11:30~13:00

休憩・昼食

13:00~13:30 バンドン工科大学(インドネシア) Dr. Khoiruddin
“Seawater Electrodeionization (SWEDI)”
13:30~14:00 マレーシア工科大学(マレーシア) Professor Ahmad Fauzi Ismail & Dr. Pei Saen Goh
“Tailoring the substrate of thin film reverse osmosis membrane through a novel β -FeOOH nanorods templating strategy”
14:00~14:30 浙江大学 (中国) Professor Ling-Shu WAN
“Surface Engineering of Polymer Membranes Based on Nontypical Surface Deposition Systems”

14:30~14:45

休憩

14:45~15:15 南京工業大学(中国) Professor Zhenyu Chu
“Regular nanomaterials-based separation-sensing membranes”
15:15~15:45 国立台湾科技大学(台湾) Professor Hsieh-Chih Tsai
“Design of caffeic acid-cationic polymer on the cotton fibre and melamine sponge for the removal of oil-in-water emulsion and dyes”
15:45~16:15 シンガポール メンブレン コンソーシアム (シンガポール) Dr. Xin Li
“The development of polyelectrolytes based nanofiltration membranes: From lab research to industrial applications”

16:15~16:30

休憩

16:30~17:00 天津工業大学 (中国) Professor Jianxin Li
“Supported ionic liquid membrane contactor for Mg²⁺/Li⁺ selective separation from aqueous solution”
天津工業大学 (中国) Professor Yunxia Hu
“Highly porous and super thin-skin nanofiltration membrane phase-inversely fabricated using PSf-b-hPG block copolymer”
17:00~17:30 香港科技大学(香港) Professor King Lun YEUNG
“Design of Superhydrophobic Oleophobic Material for Filtration, Recover, and Reuse of Fat, Oil, and Grease from Catering Wastewater”
17:30~18:00 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”
18:00~18:05 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