



### Day 2 (11 December 2021, Saturday)

#### Poster Session – Flash Presentation + Q&A (11:10 – 13:00 HKT)

Breakout Room 1			Breakout Room 2		
Poster No.	Presenting time (HKT/GMT+8)	Poster Flash Presentation (2~3 mins)	Poster No.	Presenting time (HKT/GMT+8)	Poster Flash Presentation (2~3 mins)
P – 01	11:10 - 11:13	Experiences during pilot evaluation of solar-powered UVLED disinfection in an off-the-grid tropical island <b>Bernice Mae Yu Jeco-Espaldon</b> , Achilles E. Espaldon, Tomoyasu Sado, and Kumiko Oguma The University of Tokyo, Japan	P – 17	11:10 - 11:13	Selection and Application of Bacteriophages as a Microbial Genetic Marker in Environmental water: The Case of Somatic Coliphages <b>Nana Frempong MANSO</b> , Bikash MALLA, Eiji HARAMOTO University of Yamanashi, Japan
P – 02	11:13 - 11:16	Assessment of fluoride intake from drinking and rice-soaking water in a fluoride contamination region of Chiang Mai Province, Thailand <b>Benyapa SAWANGJANG</b> , Satoshi TAKIZAWA The University of Tokyo, Japan	P – 18	11:13 - 11:16	A model-based study on influence of tidal conditions on temporal changes in E. coli concentration at Odaiba seaside park after various rainfall events <b>Chomphunut POOIPATTANA</b> , Hiroaki FURUMAI The University of Tokyo, Japan
P – 03	11:16 - 11:19	Fabrication of B/O-doped graphitic carbon nitride photocatalysts for efficient degradation of ciprofloxacin under visible light <b>Chitiphon Chuaicham</b> , Karthikeyan Sekar, Keiko Sasakia Kyushu University, Japan	P – 19	11:16 - 11:19	Wastewater surveillance of enteric viruses for wastewater-based epidemiology <b>Niva Sthapit</b> , Bikash Malla, Sarmila Tandukar, Eiji Haramoto University of Yamanashi, Japan
P – 04	11:19 - 11:22	Anaerobic Self-forming Dynamic Membrane Bioreactor in Upflow Anaerobic Sludge Bed Reactor for Saline Wastewater Treatment <b>Muhammad Ahmar Siddiqu</b> , Di Wu, Guanghao Chen Department of Civil and Environmental Engineering, The Hong Kong University of Science & Technology, Hong Kong, China	P – 20	11:19 - 11:22	Verification of inhibitory effects on planktonic E. coli cell growth by low-intensity alternating electric field <b>Patthranit Kunlasubpreedee</b> , Tomohiro Tobino, Fumiyuki Nakajima Department of Urban Engineering, The University of Tokyo, Japan

# IFAWET 2021



## The 4th International Forum on Asian Water Environment Technology (IFAWET)

■ Online: live

■ 10-11 December 2021

P – 05	11:22 - 11:25	Accelerated biosequestration of bisphenol A using chicken processing industry waste derived dual site amphiphile: A mechanistic approach <b>Maseed Uddin</b> , Swathi K.V, Karthikeyan Sekar, K. Ramani, G. Sekaran Department of Biotechnology, SRM Institute of Science and Technology, India	P – 21	11:22 - 11:25	Removal performance of SARS-CoV-2 in wastewater by membrane bioreactor and conventional activated sludge processes <b>Rongxuan Wang</b> , Md. Alamin, Shohei Tsuji, Hiroe Hara-Yamamura, Akihiko Hata, Bo Zhao, Masaru Ihara, Hiroaki Tanaka, Ryo Honda Graduate School of Natural Science and Technology, Kanazawa University, Japan
P – 06	11:25 - 11:28	Virus Rejection by MF, UF and RO Measured at a Potable Reuse Facility <b>Midori Yasui</b> , Hikaru Iso, Shotaro Torii, Yasuhiro Matsui, Hiroyuki Katayama The University of Tokyo, Japan	P – 22	11:25 - 11:28	Comparison of conventional activated sludge and anoxic-oxic processes for SARS-CoV-2 removal in wastewater treatment plants <b>Md. Alamin</b> , Hiroe Hara-Yamamura, Akihiko Hata, Bo Zhao, Masaru Ihara, Hiroaki Tanaka, Ryo Honda Kanazawa University, Japan
P – 07	11:28 - 11:31	Development of high-performance polyamide thin film composite (PA-TFC) membrane with chlorine stability <b>Zinning Zhang</b> , Paula Jungwon Choi, Noman Khalid Khanzada, Jaiwei Sun, Wei Jia, Jiaxin Guo, Pak Wai Wong, Alicia Kyoungjin An City University of Hong Kong, HKSAR	P – 23	11:28 - 11:31	Microbial community of continuously stirred tank bioreactors influenced by stepwise and shock salt loading <b>Shugyla Kaiyrlinova</b> , Hyokwan Bae Department of Civil and Environmental Engineering, Pusan National University, South Korea
P – 08	11:31 - 11:34	Amino-embedded carbon quantum dots incorporated thin-film nanocomposite membrane for desalination by pervaporation <b>Jaiwei Sun</b> , Noman Khalid Khanzada, Jiaxin Guo, Pengrui Jin, Pak Wai Wong, Xinning Zhang, Alicia Kyoungjin An City University of Hong Kong, HKSAR	P – 24	11:31 - 11:34	Statistical analysis of anammox community structure and activity with salt adaptation <b>Minkee Cho</b> , Jihye Park, Shugyla Kaiyrlinova, Bae Hyokwan Department of Civil and Environmental Engineering, Pusan National University, South Korea

# IFAWET 2021



## The 4th International Forum on Asian Water Environment Technology (IFAWET)

■ Online: live

■ 10-11 December 2021

P – 09	11:34 - 11:37	Electrospun reusable carbon nanotubes (CNTs) embedded polystyrene (PS)/polyacrylonitrile (PAN) oil sorbent <b>Siyoung BYUN</b> , Jieun LEE, Sanghyun JEONG Pusan national university, South Korea	P – 25	11:34 - 11:37	Environmental surveillance of SARS-CoV-2 and its variants in wastewater in Japan <b>Sunayana Raya</b> , Ocean Thakali, Made Sandhyana Angga, Bikash Malla, Eiji Haramoto Department of Engineering, University of Yamanashi, Japan
P – 10	11:37 - 11:40	Detection of intact SARS-CoV-2 in Wastewater in Japan using capsid integrity RT-qPCR <b>Vu Duc Canh</b> , Shotaro Torii, Midori Yasui, Shigeru Kyuwa, Hiroyuki Katayama The University of Tokyo, Japan	P – 26	11:37 - 11:40	Relationships between Structural Properties of Organic Compounds and Preferences for Radicals in UV/Cl <sub>2</sub> Treatment <b>Xinyue LIU</b> , Futoshi KURISU, Kumiko OGUMA, Hiroaki FURUMAI The University of Tokyo, Japan
P – 11	11:40 - 11:43	Development and optimization of untargeted detection method for AHLs in activated sludge <b>Yu GUO</b> , Tomohiro TOBINO, Fumiyuki NAKAJIMA Department of Urban Engineering, The University of Tokyo, Japan	P – 27	11:40 - 11:43	Enhanced catalytic degradation of aqueous doxycycline (DOX) in Bi <sub>5</sub> O <sub>7</sub> I@MIL-100(Fe)- activated persulfate system <b>Ran Yu</b> , Rui Ma, Di Wu, Jin Qian School of Chemistry and Chemical Engineering, Northwestern Polytechnical University, China
P – 12	11:43 - 11:46	Desalination of surface water affected by seawater intrusion using flow-electrode capacitive deionization (FCDI) <b>Wanni Zhang</b> , Wenchao Xue Asian Institute of Technology, Thailand	P – 28	11:43 - 11:46	Implication on the removal of selected pharmaceuticals in onsite sanitation system from soil sorption and soil biodegradation test <b>Do Thi Thuy Quyen</b> , Otaki Masahiro Ochanomizu University, Japan
P – 13	11:46 - 11:49	Application of Ulva australis reproduction inhibition test to assess toxicity of industrial wastewater Hojun Lee, Stephen Depuydt, Philippe Heynderickx, <b>Di Wu</b> , Taejun Han, Jihae Park Ghent University Global Campus, South Korea	P - 29	11:46 - 11:49	Methylene blue degradation by TiO <sub>2</sub> activated by evanescent waves emitted from quartz optical fibers with quantum yields greater than unity <b>Yinghao Song</b> , Li Ling, Chii Shang Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology, Hong Kong, China

# IFAWET 2021



## The 4th International Forum on Asian Water Environment Technology (IFAWET)

■ Online: live

■ 10-11 December 2021

P – 14	11:49 - 11:52	Evaluation of 3D printing spacers containing carbon nanotubes for efficiency improvement in membrane distillation <b>Seongeom Jeong</b> , Sanghyun Jeong Pusan national university, South Korea	P - 30	11:49 - 11:52	Non-target screening to assess the effect of secondary treatment and chlorination on the organic micropollutants in effluent from domestic wastewater treatment plants <b>Aishwarya Pandey</b> , Futoshi Kurisu, Ikuro Kasuga, Hiroaki Furumai The University of Tokyo, Japan
P – 15	11:52 - 11:55	Effective removal of residual pollutants of wastewater using in-situ generated ferrate (IV) <b>Yumin OH</b> , Sanghyun JEONG Pusan national university, South Korea	P – 31	11:52 - 11:55	Complete Arsenite removal from groundwater using photochemical oxidation and iron oxide impregnated granular activated carbon <b>Preeyanghaa Mani</b> , Youngae Kim, Sandeep Kumar Lakhera. B. Neppolian, Heechul Choi SRM Institute of Science and Technology, India
P – 16	11:55 – 11:58	Detection of SARS-CoV-2 RNA from two wastewater treatment plants of Nepal <b>Sarmila Tandukar</b> , Ocean Thakali, Niva Sthapit, Bikash Malla, Eiji Haramoto Policy Research Institute	P – 32	11:55 – 11:58	Toxicity comparison of fluoranthene in formulated sediment and environmental sediments by 10-day spiked sediment toxicity test with an estuarine amphipod <i>Grandidierella japonica</i> <b>Koji Ueda</b> , Tomohiro Tobino, Fumiyuki Nakajima Environmental Science Center, The University of Tokyo, Japan
<b>Break (02 Minutes)</b>					



		Q&A (Zoom Breakout rooms)							
12:00 – 13:00	Q&A Session Cycle 1 (12:00 – 12:15)	● Breakout Room 1 (Poster P - 01)	● Breakout Room 2 (Poster P - 02)	● Breakout Room 3 (Poster P - 03)	● Breakout Room 4 (Poster P - 04)	● Breakout Room 5 (Poster P - 05)	● Breakout Room 6 (Poster P - 06)	● Breakout Room 7 (Poster P - 07)	● Breakout Room 8 (Poster P - 08)
	↓	● Breakout Room 1 (Poster P - 09)	● Breakout Room 2 (Poster P - 10)	● Breakout Room 3 (Poster P - 11)	● Breakout Room 4 (Poster P - 12)	● Breakout Room 5 (Poster P - 13)	● Breakout Room 6 (Poster P - 14)	● Breakout Room 7 (Poster P - 15)	● Breakout Room 8 (Poster P - 16)
	↓	● Breakout Room 1 (Poster P - 17)	● Breakout Room 2 (Poster P - 18)	● Breakout Room 3 (Poster P - 19)	● Breakout Room 4 (Poster P - 20)	● Breakout Room 5 (Poster P - 21)	● Breakout Room 6 (Poster P - 22)	● Breakout Room 7 (Poster P - 23)	● Breakout Room 8 (Poster P - 24)
	↓	● Breakout Room 1 (Poster P - 25)	● Breakout Room 2 (Poster P - 26)	● Breakout Room 3 (Poster P - 27)	● Breakout Room 4 (Poster P - 28)	● Breakout Room 5 (Poster P - 29)	● Breakout Room 6 (Poster P - 30)	● Breakout Room 7 (Poster P - 31)	● Breakout Room 8 (Poster P - 32)