

**Session 1A Saturday, July 9th, Chair: KOBAYASHI, Shiho**

**Oral presentation: 11:00~12:10, Poster viewing (Breakout Room): 12:10~13:10**

lecture No.	Speaker	Title	Page
1A-1-a	TOMITA Ryuya (00026193)	Formate: A Promising Electron Donor to Enhance Trichloroethene-to-ethene Dechlorination in <i>Dehalococcoides</i> -augmented Groundwater Ecosystem with Minimal Microbial Growth	1
1A-1-b	NAKAMURA So (00026159)	Potential of Predatory Bacteria to Modify Duckweed Microbiome	1
1A-1-c	KOBAYASHI Hiroki (00026151)	Disinfection of Extracellular Antimicrobial Resistant Genes (ARGs) Using Free Chlorine (Cl) and Peracetic Acid (PAA), Performic Acid (PFA)	2
1A-1-d	SONG Yapeng (00026188)	Performance and Microbial Community Structure of Anaerobic Digestion of High-Solid Feeding Chicken Manure under Extreme Ammonia Nitrogen Level	2
1A-1-e	SAMUDRO Ganjar (00026106)	Relationship between Organic Removal and Power Generation in the Single Chamber and Double Chamber Microbial Fuel Cells	3
1A-2-a	HIKI Kyoshiro (00026071)	Microplastic Ingestion by a Benthic Amphipod in Different Feeding Modes	3
1A-2-b	TRIHATMOKO Kharisrama (00026245)	Investigation of Tapioca Wastewater Ethanol Fermentation in Anaerobic Baffled Reactor	4
1A-2-c	MITARAI Yukine (00026166)	Growth Characteristics of a Thraustochytrid and Its Application for Utilization of Wheat-flour Noodle Boiling Wastewater	4
1A-2-d	JAYASEKARA Dasun (00026181)	Growth, Oxidative Stress and Odor Compound Production of <i>Pseudanabaena galeata</i> Under Extreme Light Exposure	5
1A-2-e	ISHIZAWA Hidehiro (00026160)	Spontaneous Cell Lysis by <i>Pelomonas saccharophila</i> MRB3 Provides Plant-Available Macronutrients in Hydroponic Growth Media and Accelerates Biomass Production of Duckweed	5
1A-3-a	SAMUDRA Thoriq Teja (00026121)	Control of <i>Microcystis</i> Buoyancy by Reducing Cellular Carbohydrate Content at High Temperature	6
1A-3-b	OGINO Mizuki (00026156)	Abundance of Antimicrobial Resistant Bacteria and Their Resistance Profiles in Sagami River Basin	6
1A-3-c	XIE Hui (00026117)	Transmission of resistance from ESBL-producing coliforms in treated wastewater to susceptible <i>Escherichia coli</i> in a river using filter mating method	7
1A-3-d	ELSAMADONY Mohamed (00026142)	Concerns about Sustainable Development Progress in The Wake of COVID-19 Pandemic	7
1A-4-a	SORN Sovannlaksmy (00026197)	Enrichment of Perfluoroalkyl Substances (PFAS) Degrading Bacteria from Activated Sludge	8
1A-4-b	SODA Satoshi (00026204)	Wastewater Treatment Systems Using Trickling Filters and Constructed Wetlands Planted with Ornamental and Edible Plants	8
1A-4-c	KARIM Md. Razaul (00026083)	Analysis of Development and Decline of Hypoxia by Using Monitoring Data Collected Near Tama River Estuary of Tokyo Bay	9
1A-4-d	CANCELED		

**Session 1B Saturday, July 9th, Chair: NOMURA, Youhei****Oral presentation: 11:00~12:10, Poster viewing (Breakout Room): 12:10~13:10**

lecture No.	Speaker	Title	Page
1B-1-a	NAKANO Hiroto (00026134)	Effect of Chemical Surface Modification of Carbon Felt on Preventing Methanogen Adhesion	10
1B-1-b	OTOMO Shohei (00026144)	A Comprehensive Modeling Analysis of Nitrous Oxide Emission in Oxidation Ditch Reactor	10
1B-1-c	WIJESINGHE Ashika (00026183)	The Allelopathic Inhibition of Cyanobacteria using Macrophyte Extracts	11
1B-1-d	To Uyen DINH THI (00026112)	Evaluation of Tetracycline and Nutrient Removal Potential of Duckweeds ( <i>Spirodela</i> sp. and <i>Lemna</i> sp.) In Lab-Scale Cultivation	11
1B-1-e	MING Jie (00026066)	Bactericidal Mechanism of Ag/Ag <sub>2</sub> O/BiPO <sub>4</sub> /Bi <sub>2</sub> WO <sub>6</sub> for Inactivation of <i>Escherichia coli</i> under Solar Light Irradiation	12
1B-2-a	MAGHFIROH Miratul (00026075)	Air Stripping of Ammonia Using Water Spray Reactor: An Evaluation on Performance	12
1B-2-b	LIU Jibao (00026192)	Network Analysis for Detecting Microbial Interactions and Keystone Species in Engineered Biological Systems	13
1B-2-c	YAN Hongyu (00026173)	Recover Ability of <i>Microcystis aeruginosa</i> after Prolonged Darkness Treatment	13
1B-2-d	CONDE Kaba (00026105)	Chemical Fertilizer Substitution with Composted Sewage Sludge for Sustainable Forage Rice Cultivation	14
1B-2-e	BATINOVIC Steven (00026216)	A Metabolic Model for a Member of the Genus <i>Kouleothrix</i> , Responsible for Activated Sludge Bulking in Japan	14
1B-3-a	Enjeh Y FOBANG (00026141)	Treatment of Cow Manure Effluent Using Electro-flotation Method with Polyacrylamide Polymer	15
1B-3-b	SAKURAI Riku (00026131)	Novel Method for Quantification of Free and Esterified Long-chain Fatty Acid without Extraction by High-performance Liquid Chromatography	15
1B-3-c	SHRESTHA Ashok Kumar (00026127)	Microscopic Visualization of Zinc Uptake in Organs from Different Route of Exposure in True Flies Larvae	16
1B-3-d	OKAMOTO Masaru (00026089)	Countermeasure against Eutrophication Using Labor Saving Macroalgae Cultivation	16
1B-4-a	Thi Thu Huong NGUYEN (00026080)	Synthesis and Optimization of Visible-light-driven g-C <sub>3</sub> N <sub>4</sub> /CoMoO <sub>4</sub> for the Application of Tetracycline Antibiotic Removal	17
1B-4-b	LIN Min (00026207)	Comparing Methane Production from Pig Manure in Single-Stage Mesophilic and 55°C/70°C-37°C Two-Stage Anaerobic Digestion Processes	17
1B-4-c	SUDIARTHA Gede Adi Wiguna (00026103)	An Investigation of The Downshift Temperature Effect on Anaerobic Digestion in Treating Municipal Wastewater Sludge	18
1B-4-d	WADA Kyouta (00026209)	Control of Biofouling Combined with Mineral Scaling on Reverse Osmosis Membrane using Nanobubble	18

**Session 2A Saturday, July 9th, Chair: NITTAMI, Tadashi**

**Oral presentation: 14:10~15:20, Poster viewing (Breakout Room): 15:20~16:20**

lecture No.	Speaker	Title	Page
2A-1-a	MENG Lingyu (00026176)	Identification of the Functional Microorganisms for Achieving Electrode-driven Dechlorination Employed <i>Dehalococcoides</i> Species	19
2A-1-b	WANG Jing (00026148)	Effect of Nitrogen-containing Adsorbent for Nitrate/nitrite Adsorption in Aqueous Solution	19
2A-1-c	UENO Masato (00026129)	Comparison of the Effectiveness of Charcoals for Microbial Fuel Cell Semi-Wet Methanogen Cathode Electrodes	20
2A-1-d	BAI Yuge (00026214)	Characterization of Green Microalga <i>Chlamydomonas reinhardtii</i> –associated Bacteria	20
2A-1-e	STHAPIT Niva (00026110)	Application of Wastewater-based Epidemiology to Enteric Viruses in the Kathmandu Valley, Nepal	21
2A-2-a	PANDEY Aishwarya (00026086)	Concurrent Analysis of 84 Compounds among Emerging Contaminants Listed by the Ministry of Environment, Japan, in Domestic Wastewater Treatment Plants Using Liquid Chromatography and High-Resolution Mass Spectrometry (LC-HRMS)	21
2A-2-b	KAMEI Tatsuru (00026218)	Polyhydroxyalkanoates (PHAs) in the Hydrogenotrophic Denitrification Reactor: Effect of Phosphorus Concentration on Sludge PHA Content	22
2A-2-c	ALI Manal (00026065)	Potential of Using Multiwall Carbon Nanotubes as a booster for Efficacious Hydrogen Production from Saline Wastewater Using Halophiles	22
2A-2-d	LI Jingnan (00026132)	Growth Competition Model Improvement Overcoming the Overestimation in Nutrient Uptake Term between <i>Microcystis</i> sp. and <i>Cyclotella meneghiniana</i> under Low Temperature	23
2A-2-e	SHIBUYA Shusuke (00026161)	Development of High-efficiency Treatment Technology Based on Ozone-based Advanced Oxidation Processes for Non-biodegradable Colored Effluents from Biogas Power Plants	23
2A-3-a	MAHEEPALA Shehani Sharadha (00026104)	Enhanced Denitrification of Modified Aerobic/Anaerobic DHS Reactor for Sewage Treatment	24
2A-3-b	NGUYEN Huong Thu (00026070)	Enhancement of Azo Dye Anaerobic Bio-treatment Performance with Ferroferric Oxide Supplement	24
2A-3-c	DEWI Nadia Usma (00026149)	Enhanced Nitrogen Removal by Anammox on Tidal Flow Constructed Wetlands	25
2A-3-d	PHUNG Oanh Thi (00026170)	Modelling Sulphide Inhibition on Methanogen's Decay	25
2A-4-a	Wang SIYU (00026061)	Comparison of Performance of Organics and Nutrients Removal in Tidal Flow and Horizontal Flow Constructed Wetlands	26
2A-4-b	OKA Shunsuke (00026126)	Qualitative Comparative Analysis of Official Development Assistance Projects for Raising Water and Sanitation Awareness in Developing Nations	26
2A-4-c	LIN Lan (00026118)	Fast Formation of Anammox Granules Using Fluidized Bed Type Nitrification-Denitrification Sludge and Transformation of Microbial Community	27
2A-4-d	ANDRIAMANOHIARI Fetra Jules (00026178)	The Roles of Tannery Wastewaters in the Anaerobic Co-digestion of Primary Sludge and Leather Fleshing Waste	27

**Session 2B Saturday, July 9th, Chair: ISHIZAWA, Hidehiro**

**Oral presentation: 14:10~15:20, Poster viewing (Breakout Room): 15:20~16:20**

lecture No.	Speaker	Title	Page
2B-1-a	TAKEZAWA Tsubasa (00026152)	Investigation of Antibiotic Resistance Genes in River Water and Household Water in the Kathmandu Valley, Nepal	28
2B-1-b	RAHMANI Aulia Fajar (00026186)	Quantification of SARS-CoV-2 RNA in Wastewater Demonstrates Applicability of Wastewater-Based Epidemiology in Bandung City, Indonesia	28
2B-1-c	Illangakoon I. M. V. U. (00026050)	Treatment of Palm Oil Mill Effluent (POME) Using Electrocoagulation as a Post Treatment Method in Anaerobic Ponding System	29
2B-1-d	LASANTHA Vajira (00026240)	Spatial Optimization of A Sanitation Portfolio Consisting of Centralised and Decentralised Options, Using Spatial Analysis and Data-driven Modelling Approaches	29
2B-1-e	AKOH Keisuke (00026164)	N <sub>2</sub> O Emission Behavior of Anammox Sludge and Its Mitigation Strategies.	30
2B-2-a	SAKAMOTO Akihito (00026202)	Environmental Dynamics and Source Analysis of Organic Micropollutants in Water in Cambodia	30
2B-2-b	TSUDA Kohei (00026139)	Prevalence of ESBL-Producing <i>Escherichia coli</i> and Coliforms in Municipal Wastewater	31
2B-2-c	MANSO Nana Frempong (00026172)	Fate of Somatic Coliphages as a Microbial Genetic Marker in Environmental Water	31
2B-2-d	Chinh Thi Kieu PHAM (00026092)	Characterization of <i>Desulfovibrio</i> sp. Strain LBN6 Isolated from an Enrichment Culture from Lake Biwa for Antimony Removal	32
2B-2-e	SHINTOKU Masaya (00026085)	Investigation of Spring Water and The Surrounding Sites in Ishiwaki Area, Yurihonjo City, Akita	32
2B-3-a	Thi An Hang NGUYEN (00026113)	Brilliant Green Biosorption from Aqueous Solutions on Okara: Equilibrium, Kinetic and Thermodynamic Studies	33
2B-3-b	KHODSEEWONG Sirapat (00026143)	Effect of Initial Turbidity on The Removal of Particles by Coagulation and Sedimentation	33
2B-3-c	Tiffany Joan SOTELO (00026057)	The Effect of Anionic Surfactants on the Aerobic Organic Matter Removal Performance of Enhanced In-sewer Purification by Porous Media	34
2B-3-d	SATO-SOTO Silvia (00026242)	Evaluation of Redox Mediator-modified Anodes for Microbial Fuel Cell Performance Improvement	34
2B-4-a	AFRIANI Shinta Dhewi (00026078)	Effects of ZnO Nanoparticles in Irrigation Water on Rice-Soil Systems Continuously Sub-Irrigated with Treated Municipal Wastewater	35
2B-4-b	REN Yuanyuan (00026119)	Biogas Production Performance and System Stability Monitoring of Thermophilic High-solid Anaerobic Co-digestion with Lipids and Food Waste	35
2B-4-c	CHANTHAVONG Souphaphone (00026231)	Sludge Generation in the Membrane Aerated Biofilm Process Under Different Organic Loadings	36
2B-4-d	KATSURA Tsunenobu (00026237)	New Hollow Fiber Direct Nanofiltration Technology for Organic Micropollutant Removal	36

**Session 3A Sunday July 10th, Chair: HIKI, Kyoshiro**

**Oral presentation: 8:40~9:50, Poster viewing (Breakout Room): 9:50~10:50**

lecture No.	Speaker	Title	Page
3A-1-a	JI Jiayuan (00026220)	Application of Computational Fluid Dynamics in Anaerobic Membrane Bioreactors to Study the Scouring Effect of Biogas on Membrane Surface	37
3A-1-b	NARIYAMA Yuki (00026137)	Growth Characteristics and Changes in Elemental Composition of <i>Microcystis</i> sp. under Various N: P Mass Ratios	37
3A-1-c	XIE Li (00026190)	Qualitative and Quantitative Analysis of Biomass to Elucidate the Mechanism of Low Biomass Yield in Microbial Fuel Cell in Wastewater Treatment	38
3A-1-d	TOSA Koji (00026232)	Adsorption of Geosmin and 2-MIB to Porous Coordination Polymer MIL-53(AI)	38
3A-1-e	LIU Zhaozhi (00026174)	Morphological and Physiological Responses of <i>Myriophyllum roraima</i> to Exposure of Microplastic under the Coexistence with <i>Microcystis aeruginosa</i>	39
3A-2-a	YAMADA Koyo (00026213)	Biomethanation of Hydrogen and Carbon Dioxide by Anaerobic Digested Sludge Using a Down-Flow Hanging Sponge Reactor	39
3A-2-b	NETSU Hirotochi (00026233)	Methane Fermentation Promotion by Using Microbial Carrier Containing Conductive Materials	40
3A-2-c	ATMAJA Tri (00026238)	Coastal Floods Exposure to Population and Settlement across LLMIC	40
3A-2-d	HINNEH Klond D. C. (00026125)	Oxidative Degradation of Nitrogenous Organic Compounds and N-nitrosodimethylamine	41
3A-2-e	KAKITA Hirotaaka (00026167)	Durability and nutrient uptake of Gracilariaceae Seaweeds in Fish Aquaculture Wastewater	41
3A-3-a	FUNABIKI Tatsuya (00026219)	Partial Nitrification of Ammonium Nitrogen Using Polymer Gel-Immobilized Bacteria	42
3A-3-b	LIU Zhiyuan (00026076)	Photon Number Based Light Stimulation Strategy for Improving Bio-Hydrogen Production	42
3A-3-c	MOROISHI Suzuha (00026155)	Capture and Inactivation of Fecal Indicator Bacteria in Aerosols by Applying Pulsed Electric Field	43
3A-3-d	OKUDA Tetsuji (00026226)	Microplastic Origin of a Lake Water	43
3A-4-a	TWUM-AMPOFO Daniel (00026215)	Antibacterial Activity of Cu- and Zn-exchanged Zeolites for Disinfection of Wastewater	44
3A-4-b	YOKOYAMA Shota (00026154)	Hydrogenation Reaction of Azo-Dyes by High Entropy Alloy Catalysts	44
3A-4-c	MATSUYAMA Ryutaro (00026101)	Survey on the Existence of Shiga Toxin-Producing <i>Escherichia Coli</i> in the Oyodo River	45
3A-4-d	YOU Jingyi (00026179)	The Role of Acidogenic and Methanogenic Phases on the Survival of Antibiotic-Resistant Bacteria in the Batch Mesophilic Anaerobic Digestion with Cefazolin-Contaminated Cow Manure	45

**Session 3B Sunday July 10th, Chair: FUJII, Manabu****Oral presentation: 8:40~9:50, Poster viewing (Breakout Room): 9:50~10:50**

lecture No.	Speaker	Title	Page
3B-1-a	MIWA Toru (00026073)	Application of Coconut Shell Mat to trickling filter process in sewage treatment	46
3B-1-b	TIARETI Areke Alexander (00026111)	Evaluation of Oxidation Reduction Potential for the Mitigation of Methane Emissions from Septic Systems	46
3B-1-c	TANAKA Fumichika (00026191)	Effect of Carbon Brush Anode Loading on Microbial Fuel Cells Performance in Long- term operation in Full-scale Wastewater Treatment Plant	47
3B-1-d	NISHIMINE Ryugo (00026097)	Aerobic Degradation of Chlorinated Ethenes without Auxiliary Substrates by <i>Pseudonocardia</i> sp. D17	47
3B-1-e	MIAO Jia (00026088)	Risk Assessment and Discharge Limit Proposed for the Antibiotics Discharged from Sewage Treatment Plants (STPs) on the Perspective of Environmental and Human Health	48
3B-2-a	LI Jing (00026230)	Analysis of the Long-term Adsorption Behavior of Chlorinated Volatile Organic Compounds on Soils with Considering Soil Property Values	48
3B-2-b	SAMARAKOON Thilomi (00026120)	Effects of Humic Acid and Cadmium on Life-history Traits of the Freshwater Cladoceran <i>Moina macrocopa</i> upon Mixed Exposure	49
3B-2-c	OTAKA Satoru (00026234)	Expansion on Application Range of Simultaneous Monitoring to Japanese PRTR Chemicals	49
3B-2-d	KAMURUANA Christopher Gideon Gitonga (00026099)	Reducing Apparent Losses Caused by Meters Inaccuracies in Embu County, Kenya	50
3B-2-e	MEUCHI Yuno (00026196)	Applicability of F-specific Bacteriophage Subgroups as Indicators of Viral Contamination and Inactivation in Rivers in Toyama Prefecture	50
3B-3-a	SHINFUKU Yuta (00026205)	Exploration and Structural Elucidation of Biodegradable Organic Matters in Tap Water Using High Resolution Mass Spectrometry	51
3B-3-b	NAKAZAWA Yoshifumi (00026067)	Estimation of the Amounts of Per- and Polyfluoroalkyl Substances (PFAS) Released from Spent Activated Carbon	51
3B-3-c	RAYA Sunayana (00026199)	Development and Application of High-throughput qPCR for Detection of Microbial Source Tracking Markers in Environmental Water Samples	52
3B-3-d	AHMED Marjjuk (00026051)	Investigation on the Effects of Space Velocity on Fluorine Removal Ability by Using Granular Si-Al-Mg Mixed Hydrous Oxides.	52
3B-4-a	OGASAWARA Yoshino (00026130)	Arsenic Insolubilization and Re-elution Inhibition by Combined Use of Ferrate(VI) and Water Treatment Sludge	53
3B-4-b	POKHREL Preeti (00026098)	Integrated Biomarker Responses of a Brackish Water Clam to Global Warming Conditions: Water temperature, salinity, and food availability	53
3B-4-c	TAKAHASHI Katsuya (00026222)	Development of Ultra-High-Speed Treatment Technology for River Turbid Water Using Ballasted Flocculation	54
3B-4-d	SASAI Takahisa (00026157)	Spatial Distribution and Pollution Sources on River Water Quality in Noda River Basin	54

**Session 4A Sunday July 10th, Chair: HATAMOTO, Masashi**

**Oral presentation: 11:10~12:20, Poster viewing (Breakout Room): 12:20~13:20**

lecture No.	Speaker	Title	Page
4A-1-a	WU Zhiyue (00026189)	The Membrane Filtration Performance of a High-solid Anaerobic Membrane Bioreactor for OFMSW Leachate Treatment	55
4A-1-b	ONO Yurika (00026198)	Distribution Survey of the Japanese Eel by using Environmental DNA: a Case Study in Nagasaki with Rivers Connecting to Diverse Seas	55
4A-1-c	PHAM Viet Dung (00026224)	Growth and Quality of <i>Plecoglossus Altivelis</i> (Ayu Fish) Cultured from a Land-based Aquaculture Fed by Secondary Treated Municipal Wastewater in a Tokyo Wastewater Treatment Plant	56
4A-1-d	POOPIATTANA Chomphunut (00026138)	Improving model accuracy of <i>E. coli</i> inactivation behavior in the CSO-impacted estuary in Tokyo considering effects of salinity and solar radiation	56
4A-1-e	SANGCHAROEN Rutrawee (00026175)	Biogas Production from Matured Mung Bean Biomass	57
4A-2-a	ZENG Jie (00026084)	Potential of Nanopore Sequencing of Full-length 16S rRNA for Identification of Pathogenic Bacteria in Small-scale Water Supply Systems	57
4A-2-b	SUN Meng (00026229)	Benchmark of Chemostat Methane Production from Acetate and Its Dynamic Modelling	58
4A-2-c	GAN Yalan (00026079)	Quantitative Microbial Risk Assessment of Nontuberculous Mycobacteria in Water Supply System in Japan	58
4A-2-d	MURATA Yuichiro (00026093)	Effects of UV/PS and UV/H <sub>2</sub> O <sub>2</sub> on Degradation of Natural Organic Matter and Formation Potential of Haloacetonitriles in Surface Water	59
4A-2-e	SUGIYAMA Wataru (00026223)	Potential as a Pollution Source for Bacteria Inhabiting Plants That Grow on Riverbanks	59
4A-3-a	SANGKHARAK Kanokphorn (00026169)	Isolation of Basic Red 9-Degrading Bacteria from Textile Wastewater and Its Ability to Produce Novel Polyhydroxyalkanoates	60
4A-3-b	SABAR Muhammad Adnan (00026206)	Dynamics of Antimicrobial Resistome in the River Affected by Wastewater Treatment Effluent and Combined Sewage Overflow	60
4A-3-c	SHIMODA Wataru (00026128)	Adsorptive Removal of Soluble Heavy Metals from Anaerobic Digested Sewage Sludge under Acidic Conditions using Fibrous Chelating Agents	61
4A-3-d	Mohomed Niyaz MOHOMED SHAYAN (00026241)	Seasonal Synchrony of Evenness of Planktonic Bacterial Community in Urban Rivers	61
4A-4-a	CANCELED		62
4A-4-b	Tatsuki IGUSA (00026236)	Chemical Profiling and Identification of River Waters at the East of Shiretoko Peninsula Using Heavy Elements	62
4A-4-c	SHIMURA Erina (00026165)	Microbial Composition Involved in Cultivation of <i>Aurantiochytrium</i> sp. Stain L3W Using Unsterile Food Wastes and Its Control.	63
4A-4-d	KISHIMOTO Naoyuki (00026055)	Effect of Intermittent Electrolysis on Electrolytic Removal of an Organic Pollutant	63

**Session 4B Sunday July 10th, Chair: KAMEI, Tatsuru****Oral presentation: 11:10~12:20, Poster viewing (Breakout Room): 12:20~13:20**

lecture No.	Speaker	Title	Page
4B-1-a	NISHIMURA Yuri (00026163)	Comparative Study of Various Oxidation Processes to Remove Residual Antimicrobials in Actual Wastewaters	64
4B-1-b	NGUYEN Nga Thi (00026194)	Impact of Water Stagnation on Antimicrobial Resistance Profiles of Bacterial Community in Premise Plumbing	64
4B-1-c	SAO Sochan (00026077)	Effect of Flood Duration on Water Extractable Dissolved Organic Matter Concentration and Composition of Flood Plain Soil	65
4B-1-d	FADHILAH Arriel (00026096)	Assessment of small-scale freshwater microplastics spatial abundance and characterization: A case study in the Metro River, Indonesia	65
4B-1-e	KOBAYASHI Shiho (00026212)	Impact of Heavy Rainfall on the Seawater Exchange Rate of Hypoxic Area in a Semi-enclosed Bay (Nanao Bay, Japan)	66
4B-2-a	TAMAI Soichiro (00026090)	Development of High Sensitive Detection and Quantification of Free Extracellular DNA Using Colloid Adsorption and Foam Concentration	66
4B-2-b	CAI Jing (00026091)	Biodegradation of Ethers, Chlorinated Aliphatic Hydrocarbons and Aromatics by <i>Pseudonocardia</i> sp. D17	67
4B-2-c	ZULKARNAINI Zulkarnaini (00026123)	Diversity of Cultivated Anammox Bacteria from The Penjalinan Estuary, Indonesia	67
4B-2-d	ANGGA Made Sandhyana (00026171)	Rapid Methods for Efficient Virus Detection in Wastewater: Comparison of Column-based Direct Capture Method and Automated Filtration Method	68
4B-2-e	NGUYEN Thuong Thi (00026072)	Removal of Multiple Heavy Metals from Simulated Acid Mine Drainage Mixed with Domestic Wastewater Using Lab-Scale Constructed Wetlands Planted with Iris and Cattail	68
4B-3-a	CHEN Yujie (00026180)	Enhanced Nitrogen and Phosphorus Removal Performance by Hydroxyapatite (HAP) formation in a One-stage Partial Nitrification/anammox Process with HAP-based Micro-granules	69
4B-3-b	ZHANG Bei (00026058)	Kraft Lignin-derived Carbon Cathode for Electro-Fenton Degradation of Emerging Contaminants	69
4B-3-c	CHAM Huiru (00026217)	Improvement in the Surface Structure of Porous Concrete by Adhesion of Bamboo Powder	70
4B-3-d	DENINDYA Zefanya Alovy Petra (00026082)	Assessment of Mulch Material Effect on Surface Runoff, Soil Loss, and Water Quality in an Agricultural Region	70
4B-4-a	DEVIANTO Luhur Akbar (00026201)	The ELISA-Based Detection of SARS-CoV-2-Specific Human Immunoglobulin Type A from Wastewater	71
4B-4-b	MAKINO Soyoka (00026185)	Causal Relationship between Stream NO <sub>3</sub> <sup>-</sup> Concentration at Baseflow Condition and Key Regulating Factors in Kinki Region of Japan, Encompassing a Climatic Gradient	71
4B-4-c	FUJINAGA Aiichiro (00026109)	Model Based Evaluation of the Effect of Series and Parallel Connected Microbial Fuel Cells	72
4B-4-d	KOBAYASHI Norihiro (00026210)	Development and Validation of an Analytical Method for Simultaneous Determination of Perfluoroalkyl Acids in Drinking Water by Liquid Chromatography/Tandem Mass Spectrometry	73