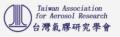
AAC 2022 The 12th Asian Aerosol Conference June 12-16 2022, Taipei

Organizers





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Student Poster Award





Organizers

Third Place

P1-013

In-Silico Modeling for Assessing the Global Impact of Tire Wear Particle Emission on Atmospheric Microplastics Production

Chi-Yun Chen, Tien-Hsuan Lu, Wei-Min Wang, Chung-Min Liao* (National Taiwan University, Taiwan)

P2-120

Chemical Composition of Organic Carbon and Relations with Aerosol Liquid Water during Winter in Seoul, South Korea

<u>Ayoon Sim</u>, Teng Zihui, Yeon Jung Lee, Gyeong Jin Kim, Eun Ji Lee, Ji Yi Lee*, Eun Lak Choi, Yong Pyo Kim (Ewha Womans University, Korea); Seung Myung Park, Hye Jung Shin, Dai Gon Kim (National Institute of Environmental Research, Korea)

P1-019

Development of a Personal Exhaled Breath Aerosol Receiver

<u>Chieh-Ling Chen</u> (National Taiwan University, Taiwan); Yu-Mei Kuo (Chung Hwa University of Medical Technology, Taiwan); Chih-Wei Lin, Sheng-Hsiu Huang, Chih-Chieh Chen* (National Taiwan University, Taiwan)



Organizers

Third Place

P2-031

The Use of Low-Cost Sensing (LCS) Devices to Assess the Concentration of Cooking Emissions in a Household

Yu-Kang Liu, I-Hsuan Tsai, Wan-Chen Lee* (National Taiwan University, Taiwan)

P1-119

Investigation of Wet Cyclone Sampling Technique for Real-Time Bioerosol Monitoring System

<u>Hyunmo An</u> (Sungkyunhwan University, Korea); Gunhoo Woo (SKKU Advanced Institute of Nanotechnology, Korea); Taesung Kim* (Sungkyunhwan University, Korea)

P2-059

Effect of Green Urban Area on PM2.5 Reduction

<u>Thawat Ngamsritrakul</u> (Chulalongkorn University, Thailand); Sopa Chinwetkitvanich (Mahidol University, Thailand); Win Trivitayanurak (Chulalongkorn University, Thailand); Surachai Leewatananukul, Kittichoke Sripramote (Center of Excellence on Hazardous Substance Management, HSM, Thailand); Sirima Panyametheekul* (Chulalongkorn University, Thailand)





Third Place

P1-110

Effect of VOCs on PM2.5 Concentration in a Small Urban Forest in the Tokyo Metropolitan Area: Observation-Based Analysis

Yutaka Tsuchiya, Hiroshi Okochi, Hiroshi Hayami* (Waseda University, Japan); Akane Miyazaki (Japan Women's University, Japan)

P1-132

Urbanization Effect Quantification on Air Quality using Geographically Weighted Regression (GWR) <u>Nurainshafika Sahak</u>, Arnis Asmat* (Universiti Teknologi MARA, Malaysia); Noor Zaitun Yahaya (Universiti Malaysia Terengganu, Malaysia)



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Poster Award

Second Place

P2-012

Suppression of PM2.5 Evaporation Loss by Using a Honeycomb Dehumidifying and Cooling System

Pallavi Gajanan Barhate, Thi-Cuc Le, Kai-Jing Zeng, Chuen-Jinn Tsai* (National Yang Ming Chiao Tung University, Taiwan)

P2-115

Enhanced Enrichment of Collected Airborne Coronavirus and Influenza Virus Samples via a Cona-Coated Microfluidic Chip for PCR Detection

Amin Piri, Kyung-A Hyun, Hyo-II Jung, Jungho Hwang* (Yonsei University, Korea)

P1-060

Investigation of Atmospheric Pathways and Source Apportionment of Nitrate in PM2.5 Using Isotopic Compositions

Yan-Syuan Lin, Ta-Chih Hsiao* (National Taiwan University, Taiwan)





Second Place

P2-029

Components and Concentrations of Cooking Emissions with Kitchen Hoods intervention in a Taiwanese Household

<u>I-Hsuan Tsai</u>, Wan-Chen Lee* (National Taiwan University, Taiwan)

P2-064

Clinical Aerosol Quantitation during Awake Tracheal Intubation

<u>A.J. Shrimpton</u>* (University of Bristol, United Kingdom); J.M. Brown (North Bristol NHS Trust, United Kingdom); T.M. Cook (Royal United Hospital, United Kingdom); J.P. Reid (University of Bristol, United Kingdom); Bristol Awake Fibreoptic Intubation Collective, G. O'Farrell, H.M. Howes, R. Craven, A.R. Duffen (Bristol Royal Infirmary, United Kingdom); A.E. Pickering (University of Bristol and Bristol Royal Infirmary, United Kingdom)





Poster Award

First Place

P2-043

Evaluation of Lung Deposited Surface Area from Traffic Emission in the Taipei

Urban Area

<u>Po-Kai Chang</u>*, Ta-Chih Hsiao (National Taiwan University, Taiwan)



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國立台灣大學 環境工程學研究所 Graduate Institute of Environmental Engineering National Takena University

Student Oral Award







Third Place

OS09-5

The Influence of Acidity on Brown Carbon Formation from the Aqueous-Phase Nitrate-Mediated Photooxidation of Phenolic Compounds

Junwei Yang, Wing Chi Au, Haymann Law, Chun Hei Leung, Chun Ho Lam, Theodora Nah* (City University of Hong Kong, Hong Kong)

OS08-1

Inactivation of Escherichia Coli in Droplets at Different Ambient Relative Humidity: Effects of Phase Transition, Solute and Cell Concentrations

Zhancong Liang, Wing Lam Chan, Xiaomeng Tian, Patrick. K. H. Lee*, Chak K. Chan* (City University of Hong Kong, Hong Kong)

OS21-6

Experimental Study on Filter Quality of Dust Cake

Han-Sheng Huang, Chih-Wei Lin, Sheng-Hsiu Huang, Chih-Chieh Chen* (National Taiwan University, Taiwan)





Third Place

OS14-5

Carbonaceous and Ionic Components in Ultrafine Particles and Fine Particles Measured in Different Microenvironments in an Urban Area, Vietnam

Truong Thi Huyen, Sekiguchi Kazuhiko* (Saitama University, Japan)

OS08-4

Aqueous-Phase Photochemistry of Bioaerosols under Cloud-Like Conditions

Yushuo Liu, Theodora Nah*, Patrick Lee (City University of Hong Kong, Hong Kong)

OS11-3

Evolution and Chemical Characteristics of Organic Aerosols during Wintertime PM2.5 Episodes in Shanghai, China: Insights Gained from Online Measurements of Organic Molecular Markers

Shuhui Zhu (Hong Kong University of Science and Technology, Hong Kong), Min Zhou, Dandan Huang, Liping Qiao (Shanghai Academy of Environmental Sciences, China); Qiongqiong Wang, Shan Wang (Hong Kong University of Science and Technology, Hong Kong); Shengao Jing, Qian Wang, Yaqin Gao, Shengrong Lou, Cheng Huang, (Shanghai Academy of Environmental Sciences, China); Jian Zhen Yu* (Hong Kong University of Science and Technology, Hong Kong)







Third Place

OS05-4

Light Absorbing Properties of Water/Methanol-Soluble Organic Carbon in PM2.5 at an Urban Site in Northern Taiwan

<u>Yi-Ru Ko</u>, Chuan-Hsiu Huang (National Taiwan University, Taiwan); Yu-Hsiang Cheng (Ming Chi University of Technology, Taiwan); Chuo-Hsi Huang, Yu-Ming Chu, Yu-Chieh Ting* (National Taiwan University, Taiwan)

OS04-6

Investigating of Particulate PCDD/Fs Size Distributions in the Gas Stream within a Hazardous Waste Treatment System

Wei Tang (Beijing Institute of Technology, China); Yen-Yi Lee (Cheng Shiu University, Taiwan); Jhong-Lin Wu (National Cheng Kung University, Taiwan); Sheng-Lun Lin* (Beijing Institute of Technology, China)

OS22-4

Urban Air Pollution in Schools and Residences: A Cross-Sectional Study among School Children in the Klang Valley, Malaysia

Nur Faseeha Suhaimi, Juliana Jalaludin*, Eliani Ezani (Universiti Putra Malaysia, Malaysia)



Oral Award

Second Place

OS33-4

3D Modeling for the Air Filtration Process of Ultrafine Particles using Nanofiber Based Filters

Sher-Ling Lee, Frank Lin, Kuo-Lun Tung* (National Taiwan University, Taiwan)

OS35-1

Visible-Light Photocatalytic Performance of Cuxo Loaded Anatase- Or Rutile-Tio2 Fabricated By Gas Phase Method

<u>Meditha Hudandini</u>, Dianping Jiang (Hiroshima University, Japan); Kusdianto Kusdianto (Institut Teknologi Sepuluh Nopember, Indonesia); Masaru Kubo, Manabu Shimada* (Hiroshima University, Japan)



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Second Place

OS14-1

Enhanced Estimation of Impacts of Biomass Burning Smoke: Intermediates of Levoglucosan Photodegradation

Xiaorui Wu, Liming Yang, Laura-Hélèna Rivellini, Liya E. Yu* (National University of Singapore, Singapore)

OS08-2

Ambient avian Influenza Virus in the Stopover Sites of Migratory Birds

Jia-Lin Zhang, Zi-Yu Chen, Pei-Shih Chen* (Kaohsiung Medical University, Taiwan)



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Oral Award

First Place

OS05-2

Characteristics and Seasonal Variations of Secondary Aerosols during Visibility Degradation

<u>Chun-Chen Lu</u>, Ta-Chih Hsiao*, Yu-Ting Chen, Pei-Te Chiueh (National Taiwan University, Taiwan); Li-Hao Young (China Medical University, Taiwan); Wen-Yinn Lin (National Taipei University of Technology, Taiwan); Shui-Jen Chen (National Pingtung University of Science and Technology, Taiwan)

