



Nexus-summit.com

Welcome Message from the Co-Chairs

Dear Colleagues, Esteemed Guests, and Friends,

Welcome to the Nexus Summit: Sustainability in a Changing World (NEXSUM2024). We are honored and delighted to serve as co-chairs for this prestigious gathering of experts, thought leaders, and stakeholders dedicated to addressing the pressing challenges at the intersection of Carbon Neutrality, Environment, Energy, Food Security, Sustainability, and Climate Change.

Our world is undergoing rapid and profound changes, impacting every aspect of our environment, societies, and economies. In such times, it is essential to come together, share knowledge, and collaborate on innovative solutions that will help us navigate these complex challenges. NEXSUM2024 offers a unique platform to do just that. Over the next few days, we will explore cutting-edge research, best practices, and pioneering innovations that are shaping the future of sustainability.

This summit is more than just a conference; it is a call to action. We must leverage our collective expertise and commitment to drive meaningful change and foster a more sustainable and equitable future. Through insightful discussions, engaging workshops, and dynamic networking opportunities, we hope to inspire and empower each of you to make a lasting impact in your respective fields and communities.

We extend our heartfelt gratitude to all the participants, speakers, and partners who have contributed to making NEXSUM2024 a reality. Your dedication and passion are the driving forces behind our shared mission. Let us seize this opportunity to learn from one another, build lasting partnerships, and chart a course towards a better world for all.

Thank you for joining us at NEXSUM2024. Together, we can create a brighter, more sustainable future.

Warm regards,

Meisam Tabatabaei Professor Universiti Malaysia Terengganu Su Shiung Lam Professor Universiti Malaysia Terengganu

Scientific Committee

- o Meisam Tabatabaei, Universiti Malaysia Terengganu, Malaysia
- o Su Shiung Lam, Universiti Malaysia Terengganu, Malaysia
- o Vijai Kumar Gupta, Dublin City University, Ireland
- o Junting Pan, Chinese Academy of Agricultural Sciences, China
- o Muhammad Ikhwanuddin Abdullah, Universiti Malaysia Terengganu, Malaysia
- o Mikhail Kurushkin, ITMO University, Russia
- o Jo-Shu Chang, Tunghai University, Taiwan
- Wei-Hsin Chen, National Cheng Kung University, Taiwan
- o Amin Mousavi Khaneghah, ITMO University, Russia
- o Cheng-Di Dong, National Kaohsiung University of Science and Technology, Taiwan
- o Fubao Sun, Jiangnan University, China
- o Yingru Zhao, Xiamen University, China
- o Carol Sze Ki Lin, City University of Hong Kong, Hong Kong
- o Derek Chan Juinn Chieh, Universiti Sains Malaysia, Malaysia
- Yen Wah Tong, National University of Singapore, Singapore
- o Sunita Varjani, University of Petroleum and Energy Studies, India
- o John Chi-Wei Lan, Yuan Ze University, Taiwan
- o Jingai Shao, Huazhong University of Science and Technology, China
- o Junyi Ma, Beijing Forestry University, China
- o Huacheng Zhu, Sichuan University, China
- o Kang Kang, Lakehead University, Canada

Organizing Committee

Director of AKUATROP: Prof. Dr. Muhammad Ikhwanuddin Abdullah Co-chairs: Prof. Ts. Dr. Lam Su Shiung & Prof. Dr. Meisam Tabatabaei

- o Assoc. Prof. Ts. Dr. Nor Azman Kasan
- o Assoc. Prof. Dr. Liew Hon Jung
- o Assoc. Prof. Dr. Nurul Ulfah Karim
- o Ts. Dr. Khor Wai Ho
- o Dr. Liew Rock Keey
- o Dr. Mohd Fazhan Mohd Hanafiah
- o Mdm. Norainy Mohd Husin
- o Dr. Norhidayah Abdul Manan
- o Dr. Peter Yek Nai Yuh
- o Dr. Sairatul Dahlianis Ishak
- o Ts. Dr. Wan Adibah Wan Mahari
- o Dr. Hidir Ariffin
- o Dr. Nor Asma Husna Mohamed Yusoff
- o Dr. Norhafiza Ilyana Yatim
- o Dr. Okomoda Victor Tosin
- o Dr. Siti Jalilah Mohamad
- o Dr. Mohd Ihwan Zakariah
- o Ahmad Ideris Abdul Rahim
- o Ahmad Najmi Ishak
- o Ahmad Nazir bin Haron
- o Ahmad Shuhaimi Draman
- o Aini Zahida Din
- o Amirul Ashyraf Mohd Roshini
- o Amyra Suryatie Kamaruzzan
- o Azmie Ghazali
- o Che Ku Baharuddin Che Ku Ismail
- Foong Shin Ying
- o Gusti Afiz Gusti Ruslan Noor
- o Khoo Shing Chin
- o Md Shahadat Hossain
- Meng Lingbo

- Mohd Amir Abdul Aziz
- Mohd Azman Yusoff
- Mohd Hafizi Idzlan
- Mohd Iffa Rezuan Rusdi
- o Mohd Riezuan Razali
- o Mohd Sabri Muda
- Mohd Shafiq Mohd Razak
- Mohd Shareezad Satad
- Mohd Zaidi Ibrahim
- Muhammad Amirul Shafiq Kadri
- Muhammad Rafiq Hakimi Mohd Noor
- Nik Maizatul Ema Che Ali
- Noor Azida Abdul Wahab
- Norliza Ismail
- Nurzuhrah Hassan
- Nurul Akmal Yusoff
- Nurul Hayati Ismail
- Pouya Mohammadi
- o Rohisyamuddin Othman
- Rosmanizan bin Resep
- o Rusliana Rashid
- o Tai Zhi Ting
- Saiful Amir Mohamad
- o Siti Rabiatul Adawiyah Mohd Zin
- o Solihah Ahmad
- o Suhairi Mazelan
- Syarifah Noormaisarah Tuan Besar
- Syed Muhamdan Syed Buni Yamin
- Wahidah Wahab
- Yang Yan
- IC Buddies

CONFERENCE SCHEDULE

24 July 2024

08:00-09:50: Registration

09:50-10:00 Arriving of VIP

10:00-11:00: Opening ceremony

11:00-12:00: Plenary talk

12:00-14:00 Lunch

14:00-15:30 Parallel sessions 1

15:30-16:00 Coffee time

16:00-17:30 Parallel sessions 2

25 July 2024

09:00-10:00 Plenary talk 10:00-10:30 Coffee time

- 10:30-12:00 Parallel sessions 3
- 12:00-14:00 Lunch

14:00-15:30 Parallel sessions 4

15:30-16:00 Coffee time

16:00-17:30 Parallel sessions 5

26 July 2024

09:00-10:00 Plenary talk

10:00-10:30 Coffee time

10:30-12:00 Parallel sessions 6

12:00-13:00 Closing ceremony

13:00-14:30 Lunch

1. National Anthem of Malaysia - 2 min
2. UMT Corporate Video Presentation - 3 min
3. Welcome Remark by Director of the Institute of Tropical Aquaculture and Fisheries (AKUATROP),
- 5 min

4. Opening Speech - 10 min

5. Cultural Performance - 15 min

6. NEXSUM2024's International Co-organizers Presentation- 20 min

- 7. Officiation of NEXSUM2024 Opening and Montage 5 min
- 8. Photo session

- Launching Ceremony of International Editorial Office of Biochar and Carbon Research
- Promotion of Biochar and Carbon Research Journals
- Speech by Executive Editor-in-Chief of Carbon Research, Prof. Dr. Hailong Wang

- 1. NEXSUM2024 Recap 10 min
- 2. Closing Remark 10 min
- 3. Cultural Performance 15 min
- 4. Inauguration of AKUATROP's first newsletter 10 min
- 5. Official Release of the July Issue of the Planetary Sustainability 10 min
- 6. Awards ceremony 10 min
- 7. Thank You Message by Co-Chairs and Introduction of NEXSUM2025 10 min
- 8. Photo session

24 July 2024 *Plenary talk: Prof. Dr. Vijai Kumar Gupta* Biobased Biorefineries for Sustainable Production of Biomaterials and Bioenergies

	1A: Climate Change and Food Security Chairs: Prof. Mhd Ikhwanuddin, Prof. Dr. Vijai Kumar Gupta, Prof. Dr. Amin Mousavi Khaneghah, Prof. Dr. Meisam Tabatabaei	1B: Waste Management and Pollution Control Chairs: Prof. Dr. Jingai Shao, Prof. Dr. Lam Su Shiung
14:00-14:15	Amin Mousavi Khaneghah Food security and recent challenges in the era of Al (Keynote speech)	Jingai Shao; Junjie Zhang; Xiong Zhang; Shihong Zhang; Haiping Yang; Hanping Chen Recent advances in CO ₂ adsorption of biomass-based porous carbons (Keynote speech)
14:15-14:30	Zemichael Workneh (Online) Sustainable and integrated approaches to prevent aquatic ecosystems from pollution in developing countries	Nurul Afiqah Mohammad Zahir; Mun Cong C Leong; Tham Fatt Ng; Choon Weng Lee; Cindy Soo Yun Tan; Su Shiung Lam; Chin Yik Lin; Mohd. Talha Anees The evaluation of marginal marine sediments as a potential carbon sink using geochemical modelling and experimental approach
14:30-14:45	<i>Yingru Tao; Weiying Feng</i> Effects mechanism of biochar application on soil carbon sequestration and alfalfa growth in typical mining areas	<i>Haixin Guo</i> Biomass derived functional carbon for water pollution treatment
14:45-15:00	<i>Minaxi Sharma (Online)</i> Valorization of Natural Pigments from Fruits & vegetables processing wastes: Applications in smart and functional foods	Hongna Li; Binxu Li Electrokinetic technology enhanced the control of antibiotic resistance and the quality of swine manure composting
15:00-15:15	Che-Jung Hsu; Ming-Huang Wang; Chiu Wen Chen; Zong-You Ke; Ding-Wen Shi The toxicological implications of mercury in muscle tissues of thermal- treated Yellowfin Tuna	Sheetal Kishor Parakh; Yen Wah Tong Microalgae-based Biotransformation of Food Waste Digestate into Single-Cell Protein
15:15-15:30	Yuxin Deng; Weiying Feng The effects of MPs on the growth of Chinese cabbage in saline-alkali area	Yu Qiao; Weiying Feng; Chenglian Feng Research on the aquatic ecological risk and sensitive toxicity mechanism of tris (2-chloroethyl) phosphate

	2A: Sustainable Agriculture and Aquaculture Chairs: Prof. Dr. Cheng-Di Dong, Prof. Dr. Derek Juinn Chieh Chan, Prof. Dr. Liew Hon Jung	2B: Biomass Conversion and Catalysis Chairs: Prof. Dr. Chi-Wei (John) Lan, Prof. Dr. Hamid Amiri, Prof. Dr. <i>Feng Shen</i>
16:00-16:15	C. F. Chen, C. W. Chen, Y. R. Cheng, C. D. Dong Microplastics in Coral Reefs from South Penghu Marine National Park in Taiwan Strait (Keynote speech)	Junyi Ma A novel strategy for enhancing anaerobic digestion of corn straw by the synergistic effect of biochar and anthraquinone- 2,6-disulfonate (Keynote speech)
16:15-16:30	Eng Huan Hau; John Tan; Mei Xia Chua; Derek Juinn Chieh Chan Duckweed as an alternative feed for mealworms: cultivation optimization and feeding efficiency (Keynote speech)	Feng Shen Catalytic oxidation of biomass to high value-added chemicals (Keynote speech)
16:30-16:45	<i>Ethan Done (Online)</i> Hydroponics: a novel approach to culturing <i>Aphanomyces euteiches</i> .	Qingang Xiong; Fangjun Chen; Yongfeng Zhu Advanced kinetic modeling and comprehensive product characterization for pyrolysis of pulp and paper mill sludge
16:45-17:00	Yu Bon YU MAN; Ka Lai CHOW; Zhang Cheng; Hoi Shan Kwan; Ming ung Wong Recycling of food waste and the potential of using activated carbon made from food processing waste-supplemented feed for fish farming	Wei Li Biogeochemical and biophysical effects of large-scale bioenergy crop cultivation
17:00-17:15	Chun Fung Briston Wong; Ming Hung Wong; Yiu Fai TSANG; Yu Bon YU MAN Sustainable and environmentally friendly Nile Tilapia (<i>Oreochromis</i> <i>niloticus</i>) farming by using char-based feed	Sharon Meng Xuang Goh; Bridgid Lai Fui Chin; Jundika Candra Kurnia; Su Shiung Lam; Yie Hua Tan; Yee Ho Chai; Nor Adilla Rashidi; Man Kee Lam Preliminary study on pyrolysis of bamboo biowaste via thermogravimetric analysis
17:15-17:30	<i>Jie Liu; Jiang Zhan Pei; Mei Feng Shi; Su Wang; Fei Peng Li</i> Approaches and practices of breeding integrated planting in cold region based on the concept of eco-agriculture	Sivasangar Seenivasagam Development of a binary metal oxide catalyst for solvent-free ketonization of palmitic acid to produce valuable bio-wax intermediates
17:30-17:45	Odette Wills; MacKenzie Kerr; Zoe Longworth; Mojtaba Shafiee; Mohammadreza Pakravan; Hassan Vatanparast (Online) How does climate change affect food security initiatives and the food security status of resultant refugees?	Rasyidah Alrozi, Nor Aida. Zubir, Noor Fitrah Abu Bakar, Julius Motuzas, Noor Hana Hanif Abu Bakar, David K. Wang CaCu _{0.2} Fe _{0.8} O ₃ perovskite as effective and reusable heterogeneous catalyst for Fenton-like decaffeination

25 July 2024 *Plenary talk: Prof. Dr. Mikhail Kurushkin* Education: an individual's sustainability in a changing world

	3A: Sustainable Infrastructure and Industry Chairs: Prof. Dr. Mikhail Kurushkin, Prof. Dr. Chi-Wei (John) Lan, Prof. Dr. Christoph Sprung	3B: Biotechnology and Bioprocessing I Chairs: Prof. Dr. Fubao Sun, Prof. Dr. Yusuf Chisti
10:30-10:45	Christoph Sprung Guiding energy – developing human potential for a future-proof mindset (Keynote speech)	Fubao Sun Enhanced enzymatic hydrolysis of lignocellulosic substrate with less-expensive formulation of domestic cellulase cocktails (Keynote speech)
10:45-11:00	Chi-Wei (John) Lan Enhancing circular economy through biorefinery of brewing waste: a strategy for producing value-added biomolecules (Keynote speech)	Meysam Madadi Biphasic Lignocellulosic Biomass Fractionation Towards Sustainable Bioproducts Production
11:00-11:15	Jonathan Jared Java Ignacio; Denny Ng; Jaya Prasanth Rajakal; Kathleen JJ Aviso; Raymond R. Tan Deep decarbonization pathway of the cement industry in ASEAN	Binghua Yan A ternary buffering system and associated microbial community coping with acid inhibition during high solid anaerobic digestion of rice straw
11:15-11:30	<i>Ting Chun Yeh; Po Ting Chen; Chi-Wei (John) Lan (Online)</i> Concurrent production of Polyhydroxyalkanoates (PHAs) and bioethanol via genetic engineering of yeast cells	Hikmat Hidayat Muhammad Rapaiee; Cindy Soo Yun Tan Superabsorbent Interpenetrating Polymer Network Hydrogels Grafted Sodium Humate with for Removal of Pb(II), Cu(II) and Methylene Blue Dye
11:30-11:45	Shang-Rong Kuo; Yi-Kai Chih; Wei-Hsin Chen A research of the effects of catalyzing the conversion of bio-methanol into hydrogen-rich gases with low-temperature-type Cu-Zn catalyst and Ti-based additive	Thai-Khuong Le; Ya-Ting Chen; Shuchen Hsieh; Shu-Ling Hsieh Polystyrene nanoplastics exposure induces oxidative stress on colorectal cancer cells
11:45-12:00	Bridgid Lai Fui Chin; April Ling Kwang Chee; Agus Saptoro; Yee Ho Chai; Shaharin Anwar Sulaiman Catalytic gasification of water hyacinth for syngas production: kinetics modelling and product gas analysis	Huei Yeong Lim; Nor Adilla Rashidi; Suzana Yusup One pot microwave-assisted synthesis of 2,5-dimethylfuran from bamboo hydrolysate in presence of green solvent and low-cost metal catalyst

	4A: Biochar Applications and Sustainable Materials I Chairs: Prof. Dr. Junting Pan, Prof. Dr. Wei-Hsin Chen	4B: Biotechnology and Bioprocessing II Chairs: Prof. Dr. Yusuf Chisti, Prof. Dr. Yen Wah Tong
14:00-14:15	<i>Junting Pan</i> Biochar enhances anaerobic digestion: the mechanisms and future perspectives (Keynote speech)	Yen Wah Tong Improving food waste anaerobic digestion efficiency with biochar in decentralized systems (Keynote speech)
14:15-14:30	Ziyue Tang; Wei Chen; Yingquan Chen; Haiping Yang; Hanping Chen (Online) Study on the removal of N/O and reaction mechanism of preparing hydrocarbon-rich liquid oil from microalgae pyrolysis.	Ajeet Singh Chauhan; Anil Kumar Patel; Chiu Wen Chen; Reeta Rani Singhania; Cheng Di Dong Driving Lipid Yield: TiO ₂ -Assisted Dual Cultivation with Nitrogen Stress in Aurnatiochytrium sp.
14:30-14:45	<i>Kuan-Ting Lee; Situmorang Gabriela; Wei-Hsin Chen</i> Improving biochar-EVA composite characteristics by optimizing the distribution of torrefied spent coffee grounds using sodium percarbonate treatment	Shini Yang; Zhenzhen Xu; Yan Zhao An effective method for enrichment of non-acylated anthocyanin monomer by enzymatic normalization strategy: a case of cyanidin- 3-sophorose-5-glucoside
14:45-15:00	Yaqoob Rashid Alhindasi; Norhasanah Abdul Shukor Lim; Natarajan Rajamohan (Online) Sustainable application of Ferrochrome slag as green aggregate material for novel application in concrete- A review	Yeqing Li Anaerobic digestion of biomass and the high-value utilization of biogas
15:00-15:15	Fui Kiew Liew; Cindy Soo Yun Tan; Yit lian Liew; Robin Yee Hui Chang Effect of bamboo charcoal on thermal-mechanical properties of bamboo charcoal/recycled low-density polyethylene composites	<i>Jingmiao Zhang; Ao Xia; Qingming Zhou; Xianqing Zhu; Yun Huang; Xun Zhu; Qiang Liao</i> Production of carbon dots, biofuels, bio-adsorbents, and biological nutrients via hydrothermal conversion of <i>Chlorella pyrenoidosa</i> and oilseed rape straw
15:15-15:30	<i>Pei-Ying Lin; Chiao-Mei You; Shuchen Hsieh</i> Amplified antibacterial performance via surfactant-modified magnetic biochar	

	5A: Biochar Applications and Sustainable Materials II Chairs: Prof. Dr. Wei-Hsin Chen, Prof. Dr. Cheng-Di Dong	5B: Renewable Energy and Biogas Chairs: Prof. Dr. Yingru Zhao, Prof. Dr. Junting Pan
16:00-16:15	Wei-Hsin Chen Progress in low-temperature biochar for biofuel, environment, and materials (Keynote speech)	Yingru Zhao Smart integrated energy: progress, applications, and challenges ahead (Keynote speech)
16:15-16:30	Sunita Varjani; Himanshu Kesarwani Nanomaterials and biochar: pioneering advances in the oil and gas industry	Yi-Hua Chen; Yi-Kai Chih; Wei-Hsin Chen The effects of adding multi-component material to Cu-Zn catalyst on hydrogen productivity through Methanol Steam Recombination (MSR)
16:30-16:45	<i>Tao Luo (Online)</i> Dynamic load demand investigation of biogas consumption in Chinese rural area	Jing Jie Wang; Yi-Kai Chih; Wei-Hsin Chen The effects of adding molybdenum carbide to copper-nickel catalysts on the efficiency of hydrogen production by methanol steam reforming
16:45-17:00	Dimberu G. Atinafu; Ji Yong Choi; Beom Yeol Yun; Sumin Kim Sustainable thermal buffering of microencapsulated bio-phase change material through engineered biochar dopant	Fuke Ai; Yameng Li; Quanguo Zhang; Zhiping Zhang Exploring potential bacterial community for enhanced photo- fermentation bio-hydrogen production from agricultural waste: addition of Enterobacter hormaechei
17:00-17:15	<i>Ji Yong Choi; Dimberu G. Atinafu; Beom Yeol Yun; Sumin Kim</i> Smart hybridization of corncob biochar and expanded graphite for improved adsorption and high thermal transport of bio-phase change material.	ALsultan Abdulkareem; Taufiq Yap Yun Hin Efficient Z-scheme water splitting using (W2/3Y1/3)2AIC as H ₂ evolution photocatalyst and Pt-BiVO ₄
17:15-17:30	Huize Chen; Ao Xia; Yun Huang; Xianqing Zhu; Jingmiao Zhang; Xun Zhu; Qiang Liao Silver nanoparticles promote the reduction of CO ₂ to CH ₄ in g-CNx- based bio-nano hybrids	

26 July 2024 *Plenary talk: Prof. Dr. Jo-Shu Chang* Bicarbonate-based Microalgal Cultivation: A Venue for Carbon Capture, Storage, and Utilization

	6A: Waste Management and Water Treatment Chairs: Prof. Dr. Nor Azman Kasan, Prof. Dr. Carol Sze Ki Lin	6B: Microwave and Energy Applications Chairs: Prof. Dr. Lam Su Shiung, Prof. Dr. Huacheng Zhu, Dr. Rock Keey Liew
10:30-10:45	Carol Sze Ki Lin; Jinhua MOU; Zihao Qin; Yahui Miao; Johnny Sik Chun Lo Development of waste biorefineries towards a circular bioeconomy <i>(Keynote speech)</i>	Huacheng Zhu; Yang Yang Industrial microwave energy application: challenges and advanced approaches (Keynote speech)
10:45-11:00	Kang Kang (Online) Biomass and industrial waste-based carbon materials for water decontamination (Keynote speech)	Peter Nai Yuh Yek Enhancing biomass conversion through advanced microwave wet torrefaction of empty fruit bunches for wood vinegar production
11:00-11:15	Weiying Feng Chemical composition, sources and ecological effect of organic matter in water ecosystems (Keynote speech)	<i>Fengming Yang; Huacheng Zhu</i> Research on microwave propagation in gradient index metamaterials and high-efficiency microwave energy applications
11:15-11:30	Fathi Hamood Al Jabri; Muruganandam Loganathan; Rajamohan Natarajan (Online) Sustainable treatment of oil produced water using novel methods – a review	Qiulin Wang; Huacheng Zhu Enhancing microwave plasma torch efficiency with electromagnetic black hole integration for industrial applications
11:30-11:45	Xin Jin; Changlei Xia (Online) Natural biomass mediated functionalized composite towards wastewater treatment	<i>Jo-Han Ng; Koguleshun Subramaniam; Wong Kang Yao; Wong Kok Hoe; Cheng Tung Chong</i> Microchannel reactors for microwave-assisted biodiesel production: a study on the effects of reactants
11:45-12:00	Latonia Nur Adyanis; Chung Hsuan Lin; I-Hsin Hsu; Lin-Chi Wang Chemical inhibitors to mitigate persistent organic pollutants in e-waste thermal treatment	Ruxu LI; Huacheng Zhu Microwave heating multiphysics computation of moving complex- shaped samples

Poster Session

Evaluation Panel: Dr. Khor Wai Ho, Dr. Mohd Fazhan Mohd Hanafiah

- 1 Yoong Kit Leong; You Chen Lin; Hong-Wei Yen Scale-up of genetically modified Kluyveromyces marxianus fermentation from flask-scale to fermentor-scale for high-value astaxanthin production
- 2 Yu Qiao; Weiying Feng Research on the Composition Characteristics of Dissolved Organic Matter in Daihai and the Mechanism of Microbial Influence
- 3 *Wei-Hao Lu; Pei-Ying Lin; Yi-Wei Chiang; Li-Yin Lin; Shuchen Hsieh* Enhanced free radical scavenging of iron-copper biochar and wood vinegar composite with light-induced activation
- 4 Yi-Wei Chiang; Pei-Ying Lin; Shuchen Hsieh Ultrasonic-assisted alkali-activated biochar for enhanced CO₂ capture
- 5 *Jie Bu; Yen Wah Tong* Enhancing anaerobic digestibility of bone meal through biochar amendment
- 6 Wei-Jhan Tong; Shu-Ling Hsieh; De-Sing Ding; Shuchen Hsieh; Cheng Di Dong; Chiu Wen Chen; Ya-Ting Chen Effects of polyethylene microplastics combined with pH on oxidative stress and histopathological damage in Briareum violacea
- 7 Yu-Die Chen; Pei-Chun Liao; Ya-Ting Chen; Chun-Yung Huang; Chun-Hung Liu; Shu-Ling Hsieh The protective role of Sargassum crassifolium extract against polystyrene nanoplastic-induced immune response in Litopenaeus vannamei
- 8 Pei-Chun Liao; Yu-Die Chen; Chun-Yung Huang; Chun-Hung Liu; Chih-Chung Wu; Shu-Ling Hsieh Protective effects of Sargassum crassifolium extract against oxidative damage induced by polystyrene nanoplastics in Litopenaeus vannamei
- 9 *Ting-Yu Chang; Ya-Ting Chen; Yu-Wen Huang; Shuchen Hsieh; Cheng Di Dong; Chiu Wen Chen; Shu-Ling Hsieh* Effect of polystyrene nanoplastics combined with cadmium on oxidative stress in clone 9 cells

Poster Session (cont.)		
10	Yi-Hsuan Su; Yu-Wen Huang; Ruo-Qi Xu; Chih-Chung Wu; Shu-Ling Hsieh Cytotoxic effects of polystyrene nanoplastics on cells	
11	Jih-Heng Chen; Jo-Shu Chang Recycling the condensed water generated by the dehumidifier for microalgae cultivation and protein production	
12	Chee Chung Wong Water distribution pipeline leakage modelling using Multi Criterion Decision Analysis (MACD) for Sibu district	
13	Chee Swee Wong Nutrient recovery from palm oil mill effluent (POME) via adsorption of modified biochar	
14	Tung Chuan Tiong Implementation and enhancement of electrochemical oxidation for wastewater treatment	
15	Guojie Song Integrated approach for co-production of bioethanol and light aromatics from lignocellulose through polyethylene glycol-aided acidic glycerol pretreatment	
16	<i>Chieh-Ming Chung; Chi-Wei (John) Lan; Jui-Jen Chang</i> From shark to yeast: Fermentation-based squalene	

27 July 2024 One-day Excursion: Exploring Underwater Diversity

FREE Included in Registration

Package

One-day Excursion: Snorkeling Extravaganza

Exploring Underwater Diversity







Our Sponsors





FOBE TRADING SDN BHD (1104281-U) LOT 51, JALAN KILANG,P.O BOX 67, 96500 BINTANGOR, SARAWAK TEL: 084-693788 FAX: 084-691109 H/P: 019-8895666, (O) 019-8895222

8 UMT PUSAT KONVENSYE INCOME AND ANSTA THE CONVENTION CENTR H **NEXSUM2024** Venue Universiti Malaysia Terengganu Convocation Center (UMTCC)

CONFERENCE GALA DINNER Savor the Tradition of Malaysian Cuisine!

25 July 2024 Raia Hotel, Terengganu

Redang Island

A paradise for scuba diving, snorkeling and swimming.

2 1

27 July 2024 One-day Excursion

J.

