

International Conference on Energy, Materials, and Photonics (EMP24)

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Dear Experts :

In order to promote the rapid development of energy, materials, and optoelectronics, exchanges and cooperation between researchers and industry peers, sharing of the latest research and innovation achievements, Society of Energy Photonics together with Xiamen University Malaysia, Nanometer Science and Application Research Institute of Southern University of Science and Technology, Optica (Formerly OSA) Shenzhen Section, IEEE Nanotechnology Council Guangdong Chapter, and *Kelip-kelip!* Center of Excellence for Light Enabling Technologies will jointly organize the 10th International Conference on Energy, Materials and Photonics (EMP24) on December 4th - 6th, 2024 at Malaysia (registration on December 4th). Up to now, EMP has successfully held all over the world, including EMP15-Tianjin, EMP16-France, EMP17-Shenzhen, EMP18-Canada, EMP19-Shanghai, EMP20-Myanmar, EMP21-Kunming, EMP22-Tianjin, EMP23-Singapore.

This conference is a high-level and high-quality academic feast, which has multiple sub-forums including optoelectronic materials, energy storage, new energy, semiconductors, etc. It is expected that more than 150 relevant experts, scholars, journal editors, and researchers from the academic and industry will attend the conference to give academic reports, discuss the latest research results and progress in new energy, materials, optoelectronics and other fields, and carry out in-depth exchanges and discussions on the frontier and hot topics.

The conference has multiple programs, including plenary lecture, keynote speech, invited report, oral report, and poster presentation. In order to stimulate the enthusiasm of young researchers for science and technology and promote academic exchanges, Oral Report Award and Excellent Poster Award are setup and will be awarded to the excellent students and researchers.

Hereby, we sincerely welcome scientific researchers and technicians from all over the world who are engaged in energy, semiconductor, display, optoelectronics, catalysis, materials, devices and related technologies to actively participate in this conference, jointly promote exchanges and cooperation, and discuss topic on international semiconductor, display, optoelectronics and energy, catalysis, materials, devices, finally promoting the development of the related fields.

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1. Chairmen



Prof. Zhang Rong, Academician of Chinese Academy of Sciences, Secretary of the Party Committee of Xiamen University

Prof. Zhang Rong, Academician of the Chinese Academy of Sciences, Distinguished Professor of the "Yangtze River Scholars Award Program" of the Ministry of Education, Chinese semiconductor scientist, Secretary of the Party Committee of Xiamen University, doctoral supervisor. Prof. Zhang graduated from the Department of Physics of Nanjing University in 1983, and graduated from the Department of Physics of Nanjing University in 1986 and graduated with a master's degree in semiconductors and received a doctorate in semiconductors from Nanjing University in 1995. Prof. Zhang has long been committed to the research of new semiconductor materials, devices and physics. Prof. Zhang is one of the earliest scientists in China to engage in wide bandgap semiconductor research.



Prof. Xiao Wei Sun, Foreign academician of Russian Academy of Engineering, Academician of Asia Pacific Academy of Materials Sciences, Executive Director of Institute of Nanoscience and Applications

Prof. Xiao Wei Sun, an honorary doctorate from the Belarusian State University of Information and Radio, a foreign academician of the Russian Academy of Engineering, an academician of the Asia-Pacific Academy of Materials Sciences, currently the executive dean and chair professor of the Institute of Nanoscience and Applications of Southern University of Science and Technology, a nationally appointed expert, and the founder of the Department of Electronics and Electrical Engineering Department Head, Director of the SUSTech-Huawei Photonics Industry Innovation Joint

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Laboratory, Chairman of the Guangdong Micro-LED Microdisplay Industry Technology Innovation Alliance, Chairman of the International Society for Energy Photonics, Vice Chairman of the Singapore-China Association for the Promotion of Science and Technology President. He has served as full professor and director of the Microelectronics Center at Nanyang Technological University in Singapore. He is a fellow of the Optical Society of America (OSA), the Society of International Optical Engineers (SPIE), the Society for International Information Display (SID), the British Institute of Physics (IoP), and a distinguished speaker of the Institute of Electrical and Electronics Engineers (IEEE). He is the first scholar from mainland China to become a fellow of the International Society for Information Display (SID Fellow). He has won honorary awards such as the Slottow-Owaki Award, the first prize of the National Invention and Entrepreneurship Award for Innovation, and the second prize of the Guangdong Provincial Science and Technology Award for Natural Science. He is an Elsevier Mainland Highly Cited Scholar and one of the top 2% scientists in the world at Stanford. Currently, he mainly studies semiconductor nanocrystal high-quality displays, 3D three-dimensional displays, and wide-bandgap semiconductors. He has published more than 700 articles in academic journals, with more than 39,000 citations, an H-index of 98, and Elsevier China Highly Cited Scholar.

To be updated...

2. Organizing Chairs



Assoc. Prof. Tan Swee Tiam, Assistant Dean, School of Energy and Chemical Engineering, Director, Kelip-kelip! Center of Excellence for Light Enabling Technologies, Xiamen University Malaysia

Assoc. Prof. Tan Swee Tiam received his B.Eng. and Ph.D. degrees from Nanyang Technological University, Singapore, in 2003 and 2007, respectively. From 2007 to 2010, he was with the Institute of Microelectronics, A*STAR, Singapore, where he spearheaded the ZnO thin film research by world-first commercial MOCVD system. In 2010, he has been instrumental in founding the LUMINOUS! Centre of Excellence for Semiconductor Lighting and Displays at Nanyang Technological University, Singapore and to oversee the research activities. He is a recipient of 2020

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Returning Expert Programme by TalentCorp Malaysia and returned to his home country joining Xiamen University Malaysia as Associate Professor (tenured) and Assistant Dean (Research and Industrial Collaboration) at School of Energy and Chemical Engineering, Xiamen University Malaysia. He also serves as the Founding Director of Kelip-kelip! Center of Excellence for Light Enabling Technologies, Xiamen University Malaysia. He is also a recipient of 2022 National Outstanding Researcher Award. Dr. Tan has more than 20 years of research experience on optoelectronic epitaxial materials, devices, and physics and has successfully executed several large-scale research projects (>10 projects, ~US\$ 40 million). He published over 111 journal publications with h-index of 46. His scientific research work has generated a strong IP portfolio (> 30 international patents) and a spin-off company.



Assoc. Prof. Gan Wee Chen, Head of Programme, School of Energy and Chemical Engineering, Xiamen University Malaysia

Assoc. Prof. Wee Chen GAN received his Ph.D. in Advanced Materials from the University of Malaya. He is currently working as an Associate Professor at the School of Energy and Chemical Engineering, Xiamen University Malaysia, with an adjunct appointment at the College of Chemistry and Chemical Engineering, Xiamen University. He is also the Head of Programme of New Energy Science and Engineering (Undergraduate Degree). His research has been focused on the functional properties of soft materials including ferroelectric, piezoelectric, triboelectric and composites.

3. Session Chairs

Prof. Kean Aw – University of Auckland

Assoc. Prof. Goh Boon Tong – Universiti Malaya

Assoc. Prof. Ts. Dr. Mohd Zamir bin Pakhuruddin – Universiti Sains Malaysia

Prof. Aung Ko Ko Kyaw – Southern University of Science and Technology

Assoc. Prof. Haw Choon Yian – Xiamen University Malaysia

Assoc. Prof. Chong Wu Yi – Universiti Malaya

Prof. Huang Nay Ming – Xiamen University Malaysia

Asst. Prof. Havid Aqoma Khoiruddin – Xiamen University Malaysia

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Prof. Luo Dan – Southern University of Science and Technology

Assoc. Prof. Vincent Woon Kok Sin – Xiamen University Malaysia

Asst. Prof. Braedan Foo Chuan Yi – Xiamen University Malaysia

Asst. Prof. Chong Woon Gie – Xiamen University Malaysia

Asst. Prof. Ng Boon Junn – Xiamen University Malaysia

Asst. Prof. Yvonne Choo – Xiamen University Malaysia

To be updated...

4. Conference Forms:

Plenary talk, Special seminar, Poster display

5. Conference Main Topics:

- New energy materials, hydrogen energy materials, fuel cell, superconducting materials
- Energy storage materials
- Energy saving materials
- Energy technology, renewable technology
- Flexibility /Printing electronic materials and devices
- Photoenergy functional materials and devices
- Wide-forbidden-band semiconductor optoelectronic materials and devices
- Nano / Low-dimensional optoelectronic materials and devices
- Photoelectric detection and intelligent sensing, optical information processing and storage
- Organic optoelectronic materials and devices
- Luminescence and displays
- Optical materials and devices
- Laser and nonlinear optical materials and devices
- Photonics and artificial intelligence
- Perovskite materials and devices
- Energy conversion and storage of the dielectric materials

6. Date and Location

Date: 4th-6th December, 2024

Location: Holiday Inn (Jalan Warisan Sentral Sepang, 43900 Selangor, Malaysia)

7. Register for the conference

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Conference official website: <https://sepsg.org/EMP2024/>

Conference Registration Website: <http://sepsg.org/EMP2024/2022-2/>


Registration QR code:



8. Fee Schedule

Type	RESEARCHER	STUDENT	INDUSTRY
Before November 1, 2024	600 USD	300 USD	650 USD
Before November 20, 2024	650 USD	350 USD	700 USD
Onsite	750 USD	450 USD	800 USD
Group	Please contact the conference affairs team		
Payment method 1: Transfer (1. RMB account) (2. HKD/USD account)	1. China: 户 名 Account Name: 广东海巍科技有限公司 开户银行 Bank Name: 中国工商银行股份有限公司中山翠亨新区支行 账 号 Account Number: 2011000909000086777 2. Hongkong/America: Company Name: Shenzhen Wan Zhong Yi Xin Technology Company Limited Tax No.: 91440300MA5ETH7B8L Operation Address: Room 211, Kaisa Science and Technology Park, No. 41, Lane 3, Liuxian 1st Road, Xin'an Street, Baoan District, Shenzhen Bank Name: Agricultural Bank of China Branch: SHENZHEN BRANCH Bank Address: 12/F ABC BLDG. 5008 SHENNAN RD. EAST SHENZHEN CHINA Swift Code: ABOCCNBJ410 HKD-ACCOUNT: 41034100040034777 USD-ACCOUNT: 41034100040034751		

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<p>Payment method 2: China-Wechat or Alipay</p>	 China (Support Credit Card WeChat, Alipay)
<p>Note</p>	<ol style="list-style-type: none"> 1. Please complete the conference registration first and note the participant's name and unit when making payment 2. The conference registration fee is at your own expense 3. Recommended hotel: Holiday Inn Sepang (375/one room/night, Deadline for room reservation: November 20th, payment in advance is required, the hotel reservation cannot be canceled after booking, the final amount is subject to the actual exchange rate, and the hotel expenses are at your own expense) 4. Meals are at your own expense 5. Insurance and air tickets are at your own expense

9. Conference agenda

Date	Time	Agenda	
December 4, 2024	10:00—20:00	Registration	
December 5, 2024	9:00—12:00	Main forum	Opening Ceremony Plenary Talk
	12:00—14:00	Lunch	
	14:00—18:00	Symposium	Keynote Talk Invited Talk Oral Talk
	18:30—20:00	Banquet	

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December 6, 2024	9:00—12:00	Symposium	Keynote Talk Invited Talk Oral Talk
	12:00—14:00	Lunch	

10. Contact

Conference affairs group: conference invitation、Registration consultation、Report submitted、Sponsorship negotiations

Contact: Julie

WeChat: +86 13310876748 (WeChat)

Email: conference_sep@163.com

11. Call for Papers

1. This conference calls for academic papers or abstracts related to the conference topic. Please submit the full text or abstract before October 31 (deadline).
2. Those who have not submitted papers are also welcome to participate in the discussion and exchange at the conference.
3. The report abstract/manuscript requires word-editable format, no limitation on the word count and format.
4. The manuscript review is based on peer review with a period of 3-5 working days.
5. Excellent conference papers will be recommended to SCI journals: Frontiers in Chemistry, Electronics, Acta Physica Sinica, CPL, CPB, Physics, Materials Research and Application, and Energy Materials Today.

12. Past Conferences

EMP18, Montreal, Canada



EMP19, Shanghai, China



EMP20, Yangon, Myanmar (online)



EMP20 Chair
Prof. Pho Kazung
Rector
University of Yangon (UY)
Yangon, Myanmar

EMP20 Co-Chair
Prof. Khin Khin Win
Head of Department (Physics)
University of Yangon (UY)
Yangon, Myanmar

EMP20 Organizing Committee Chair
Prof. Aung So So Kywe
Department of Electrical and Electronic Engineering
Southern University of Science and Technology
Shenzhen, China



EMP21, Kunming, China



EMP22, Tianjin, China



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13. Organizers

Xiamen University Malaysia

Southern University of Science and Technology

Society of Energy Photonics

Optica (Formerly OSA) Shenzhen Section

IEEE Nanotechnology Council Guangdong Chapter

***Kelip-kelip!* Center of Excellence for Light Enabling Technologies**