

# 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 10<sup>th</sup> International Conference on Energy, Materials and Photonics (EMP24) on 6<sup>th</sup> - 8<sup>th</sup> December, 2024 in Malaysia (registration on morning, 6<sup>th</sup> December). Up to now, EMP has successfully held all over the world, including EMP15-Shenzhen, 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. Chairs



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

**Prof. Rong Zhang**, 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.

To be updated...

### **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**

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**Prof. Huang Nay Ming – Xiamen University Malaysia**

**Asst. Prof. Havid Aqoma Khoiruddin – Xiamen University Malaysia**

**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**

**RSR. Xiaotian Hu – Nanchang University**

**Prof. Huiliang Sun – Gannan Normal University**

**Asst. Prof. Chong Su Sin – Xiamen University Malaysia**

**Asst. Prof. Mong Guo Ren – Xiamen University Malaysia**

**Asst. Prof. Abdul Khaliq Rasheed – Xiamen University Malaysia**

**Dr. Muhamad Rasydan Bin Mokhtar – 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

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- Energy conversion and storage of the dielectric materials

## 6. Date and Location

Date: 6<sup>th</sup>-8<sup>th</sup> December, 2024

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

## 7. Register for the Conference

Conference Official Website: <https://sepsg.org/EMP2024/>

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


Registration QR code:



## 8. Fee Schedule

Type	RESEARCHER	STUDENT	INDUSTRY
Before 1 November, 2024	600 USD	300 USD	650 USD
	4500 RMB	2250 RMB	4875 RMB
Before 20 November, 2024	650 USD	350 USD	700 USD
	4875 RMB	2625 RMB	5250 RMB
Onsite	750 USD	450 USD	800 USD
	5625 RMB	3375 RMB	6000 RMB
Group	Please contact the conference affairs team		

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<p>Payment method 1:</p> <p>Transfer</p> <p>(1. RMB account)</p> <p>(2. HKD/USD account)</p>	<p><b>1. China:</b></p> <p>户 名 Account Name: 广东海巍科技有限公司</p> <p>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</p> <p>账 号 Account Number: 2011000909000086777</p> <p><b>2.Hongkong/America:</b></p> <p>Company Name: Shenzhen Wan Zhong Yi Xin Technology Company Limited</p> <p>Tax No.: 91440300MA5ETH7B8L</p> <p>Operation Address: Room 211, Kaisa Science and Technology Park, No. 41, Lane 3, Liuxian 1st Road, Xin'an Street, Baoan District, Shenzhen</p> <p>Bank Name: Agricultural Bank of China</p> <p>Branch: SHENZHEN BRANCH</p> <p>Bank Address: 12/F ABC BLDG. 5008 SHENNAN RD. EAST SHENZHEN CHINA</p> <p>Swift Code: ABOCCNBJ410</p> <p>HKD-ACCOUNT: 41034100040034777</p> <p>USD-ACCOUNT: 41034100040034751</p>
<p>Payment method 2:</p> <p>China-Wechat or Alipay</p>	<div style="text-align: center;">  <p>China (Support Credit Card WeChat, Alipay)</p> </div>
<p>Payment method 3:</p> <p>Pay with Credit Card</p>	<p>Log in to the official website of the conference to register and pay the fee</p> <p>1. Official website of the Conference: <a href="https://sepsg.org/EMP2024/">https://sepsg.org/EMP2024/</a></p> <p>2. Quick Enrolment Website: <a href="https://sepsg.org/EMP2024/2022-2/">https://sepsg.org/EMP2024/2022-2/</a></p> <p>3. Credit card early bird price payment link</p> <p>Researcher \$750: <a href="https://buy.stripe.com/4gwaIxaw31tCc7KfZq">https://buy.stripe.com/4gwaIxaw31tCc7KfZq</a></p> <p>Student \$450: <a href="https://buy.stripe.com/8wM03Taw3ego9ZCfZp">https://buy.stripe.com/8wM03Taw3ego9ZCfZp</a></p> <p>Industry \$800: <a href="https://buy.stripe.com/8wM6shbA7b4c3BedRg">https://buy.stripe.com/8wM6shbA7b4c3BedRg</a></p>

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Note	<b>1. Please complete the conference registration first and note the participant's name and unit when making payment</b> 2. The conference registration fee is at your own expense 3. Meals are at your own expense 4. Insurance, air tickets and transportation expenses are at your own expense
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## 9. Conference Agenda

Date	Time	Agenda	
Morning 6 <sup>th</sup> December, 2024	9:00—12:00	Registration	
	12:00—14:00	Lunch	
Afternoon 6 <sup>th</sup> December, 2024	14:00—18:00	Symposium	Keynote Talk Invited Talk Oral Talk
	18:30—20:00	Banquet	
Morning 7 <sup>th</sup> December, 2024	9:00—12:00	Main forum	Opening Ceremony Plenary Talk
	12:00—14:00	Lunch	
Afternoon 7 <sup>th</sup> December, 2024	14:00—18:00	Symposium	Keynote Talk Invited Talk Oral Talk
8 <sup>th</sup> December, 2024	9:00—18:00	Visit & Exchange (Xiamen University Malaysia)	



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## 10. Contact

Conference affairs group: Conference invitation, Registration consultation, Report submitted, Sponsorship negotiations

Contact: Julie, Tel: +86 13310876748 (WeChat), Email: [conference\\_sep@163.com](mailto: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)



EMP21, Kunming, China



EMP22, Tianjin, China



## 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**