

Focusing on AI Empowering Electrochemistry Frontiers: The 2nd International Symposium on AI for Electrochemistry (iSAIEC 2025) Successfully Concluded

聚焦人工智能赋能电化学前沿：第二届国际人工智能与电化学研讨会（iSAIEC 2025）圆满落幕

Xiamen, China – June 22-25, 2025 – The 2nd International Symposium on AI for Electrochemistry (iSAIEC 2025) was grandly held at Xiamen University. The International Society of Electrochemistry (ISE) first joining as a co-organizer supports "Poster Prize" to honor outstanding contributions from young researchers.



The welcome speech by Professor Tian Zhongqun, Academician of the Chinese Academy of Sciences and professor at Xiamen University, formally kicked off the conference. Through intensive academic exchanges, including 11 plenary lectures, 11 invited talks, and 5 dedicated oral presentations for young scholars, the symposium showcased innovative applications and breakthrough advances of AI across key areas of electrochemistry: Electrochemical Spectroscopy and AI for Science, experimental digitalization, intelligent computation, and AI for battery.



Over one hundred experts and scholars from universities and research institutions across the globe convened at the event. Scientists including Professor Weinan E, Academician of the Chinese Academy of Sciences (Peking University); Professor Clare Grey FRS, Fellow of the Royal Society (University of Cambridge); Professor Bin Ren, Dean of the College of Chemistry and Chemical Engineering (Xiamen University); Professor Xin Xu (Fudan University); Professor Guanhua Chen (The University of Hong Kong); Professor Axel Gross (Ulm University, Germany); and Professor Yoshitaka Tateyama (National Institute for Materials Science, Japan) engaged in profound academic exchanges and intellectual collisions with numerous emerging talents at the forefront of global research, alongside industry representatives such as CATL (Contemporary Amperex Technology Co. Limited).



Weinan E



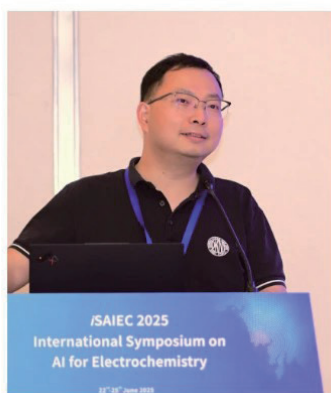
Clare P. Grey



Bin Ren



Xin Xu



Jun Jiang



Qiang Zhang



Jinlan Wang



Guanhua Chen



Axel Gross



Laurence Hardwick



Yoshitaka Tateyama



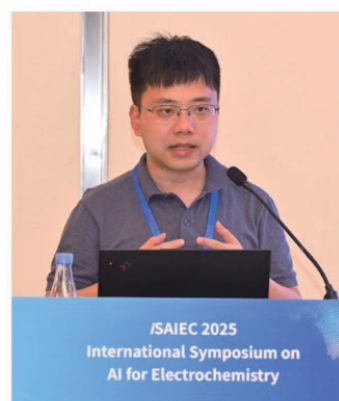
Xiaonan Wang



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Cheng Wang



Min Zhou



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Dan Li



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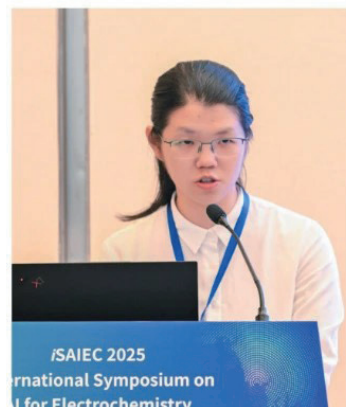
Yibin Jiang



Shaoping Wu



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Jiaxin Zhu

iSAIEC 2025 centered on the core theme of "AI for Science Driving Electrochemical Innovation" and featured four cutting-edge academic tracks. The theme-based discussions following each presentation session propelled both speakers and attendees into intensive brainstorming, where the sheer diversity of academic perspectives proved highly enlightening.

- Electrochemical Spectroscopy and AI for Science

- Experimental Digitalization
- Intelligent Computation
- AI for Battery



To enhance interaction and showcase research outcomes among young scholars, this year's conference continues to incorporate flash talk within the poster session. Nearly 20 young researchers efficiently shared their latest scientific progress through concise flash presentations, significantly enriching the depth and vitality of the poster discussions. Following rigorous evaluation, 8 posters were awarded the inaugural iSAIEC Poster Prizes.



"Artificial intelligence holds immense potential and is developing rapidly. Although still relatively 'young,' it will undoubtedly inject new vitality into this century-old discipline and bring fresh perspectives to solving long-standing challenges in electrochemistry," remarked the symposium organizers. The conference extended a warm invitation to scientists worldwide dedicated to interdisciplinary research at the intersection of electrochemistry and AI to join forces in leading electrochemical research into an intelligent new era. The organizers look forward to reconvening at the next iSAIEC.

Background

iSAIEC was co-founded in 2023 by Academicians Tian Zhong-Qun and Weinan E, consistently focusing on the deep application and frontier exploration of AI for Science within electrochemistry. Its mission is to convene top minds from electrochemistry, artificial intelligence, physics, mathematics, and other disciplines to foster profound interdisciplinary collaboration.