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Author Spotlight

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SPOTLIGHT

Author Spotlight

Shi-Bin Yin (尹诗斌)

Prof. Shibin Yin is a full professor in Guangxi University. He received his Ph.D. in material physics and chemistry from Sun Yat-Sen University. His current research interests focus on developing electrode materials for fuel cells, water electrolysis, and batteries. Before joining the Guangxi University, he worked in China University of Mining and Technology. Prof. Yin has co-authored more than 140 peer-reviewed papers, and he is the Direct of Guangxi Key Laboratory of Electrochemical Energy Materials, and severs as the editorial board of Electrochemistry and Chinese Journal of Structural Chemistry. He has won the first prize of Natural Science of Guangxi Province and the Excellent Scholars and Innovation Team of Guangxi Universities.

Research Interests:

Fuel cells, water splitting, theoretical simulation, batteries, graphene utilization.

Admission Information:

Recruit 3—5 Master students and 1 PhD students per year. Poster doctors and research assistants are welcome. Background in electrochemistry and theoretical simulation is preferred.

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Xiong-Wu Kang (康雄武)

Prof. Xiongwu Kang received his B.Sc. degree in Materials Science and Engineering from University of Science and Technology of China in 2007, and Ph.D. degree in Chemistry from University of California, Santa Cruz in 2012. After finishing a postdoctoral appointment under supervision of Prof. Mostafa A El-Sayed at Georgia Institute of Technology in 2015, he started his independent research in South China University of Technology and is currently a professor in school of Environment and Energy. He is currently dedicated in the synthesis and engineering of functional nanomaterials towards their application in electrocatalytic reduction of carbon dioxide, water splitting and plasmon-enhanced electrocatalysis. He has collaborated with many outstanding scientists at home and abroad. His research team is also collaborating with China Southern Power Grid in developing key technologies of PEM fuel cell and water splitting electrolyzer. So far, he has published more than 50 papers on top journals in the field including JACS, Angew. Chem. Int. Ed., Nano Letters, ACS Catalysis, Chem. Mater., J. Mater. Chem. A, with citations more than 3600. He has received research grants from the National Nature Science Foundation of China, including the general program and incubation program of joint fund. He is a member of the youth editorial board of the Journal of Electrochemistry and a recipient of Science Medal of IAAM (2023).

Research Interests:

Rational design of functional nanomaterials, polyhedron-shaped high entropy alloy nanomaterials, long range coordination of single atom catalyst, electrocatalysis towards carbon dioxide reduction, oxygen evolution and oxygen reduction reaction, DFT calculation, *in-situ* spectroscopy, etc.

Admission Information:

PhD and master students in Chemistry and Materials Science and Engineering.

Contact:

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Yao-Yue Yang (阳耀月)

Prof. Yao-Yue Yang received his Bachelor of Science degree (2009) in Applied Chemistry from South China University of Technology at Guangzhou, and Ph. D (2014) in Physical Chemistry from Fudan University under the supervision of Prof. Wen-Bin Cai. He joined Southwest Minzu University (SMU), as an associated

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professor in 2014 and was then promoted to full professor in 2019. From Aug. 2022 to Aug. 2023, he is the Senior Visiting Scholar in Nanyang Technological University (NTU) of Singapore, hosted by Prof. Xin Wang. He was approved as the 14th Batch of Academic Technology Leaders in Sichuan Province in 2022. He is now serving as the Associate Dean (Research) of the School of Chemistry and Environment in SMU. Meanwhile, he is listed as the Editorial Board (Youth) of Journal of Electrochemistry, and he is also the leader of the teaching team of Physical Chemistry who has one First-Class Undergraduate Course of Sichuan Province ("Physical Chemistry Experiment"). He now runs a small research group which contains two associated professors and seven graduated students in SMU, and they mainly focus on the research field of Electrocatalysis and Electrosynthesis, especially the selective electrochemical conversion of the biomass platform molecules coupling with the hydrogen evolution. His research work includes the clarification of surface reaction mechanism by combining various *in-situ* electrochemical technologies (ATR-SEIRAS, IRAS, SERS, and EIS etc.) and on-line quantitative analysis technologies such as HPLC and IC, as well as the high-efficiency selective conversion from biomass molecules to value-added chemicals by the surface nanoengineering directed by the mechanism investigation. He was approved two National Natural Science Foundation of China and two Natural Science Foundation of Sichuan Province, he has published >50 papers in the international mainstream journals such as Nature Catalysis, Joule, Angewandte Chemie, ACS Catalysis, Nano Letters and etc., with the total citation of >1500 (Google Scholar). He has long been a reviewer for first-class journals such as Nature Communications, Langmuir, The Journal of Physical Chemistry C and Electrochimica Acta and etc.

Research Interests:

Electrocatalysis and Electrosynthesis.

Admission Information:

Master of Science in Physical Chemistry (070304), Materials and Chemical Engineering (085600)

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