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Author Spotlight

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Author Spotlight

Wei-Zhong Qian(蹇伟中)

Prof. Weizhong Qian received a Ph.D. at Tsinghua University in 2003 and worked as a faculty member in Tsinghua University since 2002. He has been visiting associate professor of department of materials science and engineering, Cornell University at 2008. He has been a full professor of chemical engineering at Tsinghua University since 2015. His research interests include carbon nanomaterials production and electrochemical energy storage application, and the multiphase chemical reaction technology to prepare high value chemicals. His achievement focused on the mass production of carbon nanotubes and graphene by chemical vapor deposition method, the development of 3D foam based new structure of supercapacitor and high-power density Li-ion battery. He was a pioneer to develop an industrial scale production method of 3D foam as current collector for battery and supercapacitor. He also created a new technology to prepare highly electrical conductive mesoporous carbon with high packing density and high surface area. Two technology were evaluated as the "international leading level" by China Electrochemical Society. He published a book focused on the mass production technology of carbon nanotubes. He was interviewed on CCTV and Beijing TV, on behalf of the research team. He published > 160 peer reviewed scientific papers (as coauthor of three papers of Science and Nature, corresponding author of papers such as Nature Commun, Adv. Mater, J. Am. Chem. Soc., Nano Lett., ACS Catal., Appl Catal B., Energy Storage Mater., Adv. Func. Mater, Carbon etc.). He was granted >100 Chinese patents. He was awarded with national-grade prize, MOE awards, Jiangsu province awards, Sinopec awards, and other awards from Chemical Industry and Engineering Society of China, Chinese Society of Particuology, China Petroleum and chemical Industry Federation. He has served as a chief scientist of National Basic Research and Development Program of China. He currently serves as Deputy-president of China Super Capacitors Industry Alliance, member of Chinese Society of Particuology and member of The Chinese Ceramic Society. He also served as Secretariat-general of NT09 (International symposium of carbon nanotubes and applications, 2010), Secretariat-general of APT2007(The Third Asian Particle Technology Symposium, 2007) and Secretariat-general of A3 symposium (The 3th A3 Symposium on Emerging Materials: Nanomaterials for Energy and Electronics, 2011).

Research Interests:

Carbon nanomaterials production and electrochemical energy storage application, and the multiphase chemical reaction technology to prepare high value chemicals

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Qiang Zhang(张强)

Prof. Qiang Zhang obtained his Ph.D. in chemical engineering (2009) from Tsinghua University, China, and subsequently held Research Associate/Postdoc Research Fellow positions in the Case Western Reserve University, USA, and Fritz Haber Institute of the Max Planck So

ciety, Germany. He held the Newton Advanced Fellowship from Royal Society, UK and the National Science Fund for Distinguished Young Scholars. He is selected as highly cited researchers at 2017-2022 by Clarivate Analytics. His current research interests are advanced energy chemistry and energy materials, including dendrite-free lithium metal anode, lithium sulfur batteries, and electrocatalysis, especially the structure design and full demonstration of advanced energy materials in working devices. His h-index is 140 now. He is the Advisor Editor of Angew. Chem., Associate Editor of J Energy Chem & Energy Storage Mater. He is sitting on the advisory board of Matter, Adv. Energy Mater, ChemSusChem, J. Mater Chem. A, Chem. Commun., and so on. He is the deputy head of the expert group on energy storage and smart grid of the national key research and development plan. He has won the first prize of Natural Science of the Ministry of Education, the first prize of Fundamental Science of the Chemical Engineering Society.

Research Interests:

Energy chemistry and energy materials

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Hao Zhang(张浩)

Dr. Hao Zhang is a Professor and Vice Director of Beijing Key Lab of Advanced Chemical Energy Storage Materials and Technology. His research interest includes energy storage materials and machine learning for energy science. Dr. Zhang has published more than 110 peer-reviewed research articles on Nature Energy, Nature Materials, Nature Commun., etc. These publications have been cited more than 7000 times. He served as a responsible expert for several expert groups of Science and Technology Commission of the Central Military Commission, and as the chief expert in the "12th Five Year" National 863 "Key Technology of New Chemical Energy Storage Batteries" project. He hosted and accomplished more than 10 projects including the Natural Science Foundation of China (3 projects) and the National "863" Plan. In 2010, he was awarded "National Excellent Doctoral Dissertation". In 2013, he was selected into the Beijing "Science and Technology Nova" program. He had won two second prize of provincial science and technology awards.

Research Interests:

Energy storage materials, lithium-ion batteries

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Gao-Ping Cao(曹高萍)

Gao-Ping Cao is a Research Professor and the doctoral supervisor of the Research Institute of Chemical Defense, Academy of Military Sciences. She obtained a doctorate degree in engineering from Tianjin University in 1998, engaged in post-doctoral research in the Research Institute of Chemical Defense 1998 to 2000, and has been working in the institute since 2000. Her main research direction is chemical energy storage materials and devices. She has been engaged in research on energy storage materials and devices such as supercapacitors, lead-carbon batteries, lithium-ion batteries and lithium sulfur batteries, and won three second prizes for military scientific and technological progress.

Research Interests:

Chemical energy storage materials and devices

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