



Xin Chen

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Professional field: Materials Sciences and Engineering
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Profile

Professor, doctoral supervisor. Shanghai level talent planning expert. Council member of Shanghai Micrology Society, project evaluation expert of the Ministry of Science and Technology, and evaluation expert of Shanghai Science and Technology Award.

In 1991, he received a bachelor's degree from the Department of Modern Applied Physics of Tsinghua University.

1991-1996 worked in the State Key Open Laboratory of Surface Physics, Chinese Academy of Sciences.

From 1996 to 2000, he studied in the Department of Physics of the University of Houston in the United States and obtained a doctor's degree.

From 2001 to 2008, he worked in the Center of Advanced Materials at University of Houston, and was awarded the position of assistant research professor in 2006.

From November 2004 to January 2005, he served as a visiting professor in Peking University. From 2008 to 2009, he worked as a product engineer in Applied Optoelectronics Inc. in the United States.

From 2010 to 2011, he served as visiting assistant research professor at the University of Illinois at Urbana Champaign.

Since July 2011, serving as professor in School of Materials Science and Engineering, East China University of Technology.

He published nearly 150 academic journal and international conference papers, including some 70 papers in Angewandte Chemie-International Edition, ACS Nano, Journal of Materials Chemistry A, Journal of Power Sources, Nanoscale, Nano Research, Chemical Communications, Physical Review Letters, Applied Physics Letters, etc., which have been cited for more than 1600 times, and the maximum single paper citation has exceeded 400 times. Seven journal papers have been selected as cover articles, three international and domestic academic books have been edited and co edited. For a long time, he has served as reviewer for more than 20 international well-known journals, such as Nano Research, Nanoscale, etc. He has served as president of conferences and other leading positions in international academic organizations and conferences, and has made plenary presentations, keynote reports, invitation reports, etc. in domestic and international academic conferences. He has been awarded 7 US national patents and 6 Chinese patents, and also won the US Sigma Xi Research Achievement Award, the NASA Space Act Award, and the first prize of the 2018 China Petroleum and Chemical Industry Excellent Publications - Books Award. Since 2013, he has served as the council member of Shanghai Micrology Society. The supervised postgraduate students have the opportunity to be sent to Zhejiang University and other institutions for joint training, as well as obtain national scholarships and other honors.

Research Field

1. In situ liquid electron microscopy
2. New energy material

Research results and main published thesis

[1] Qi Zhang, Xin Chen*, Siyu Cheng, Runfa Li, Yi E, Meng Jiang, "Synthesis of VS₂/NiS nanocomposites by in situ growing NiS clusters on VS₂ ultrathin nanoplates for high performance supercapacitors", ChemElectroChem, DOI: 10.1002/celc.202200073 (Inside Back Cover).

[2] Xin Chen*, Yan Li, Chang Li, Hongliang Cao, Chuanzhen Wang, Siyu Cheng, Qi Zhang, "A novel strategy of multi-element nanocomposite synthesis for high performance ZnO-CoSe₂ supercapacitor material development", Chinese Journal of Chemistry, 39 (2021) 2441-2450.

[3] Xiaoxiang Yang#, Jie Xu#, Xin Chen*, Yuli Lei, Lingling Wang, Siyu Cheng, Yan Li, Yuxuan Lu, Yupeng Zhu, Na Chen, "Preparation and characterization of porous carbon from mixed leaves for high-performance supercapacitors", Chinese Journal of Chemistry, 39(2) (2021) 353-359.

[4] Xiaoming Ma, Fang Lin, Xin Chen*, Chuanhong Jin*, "Unveiling growth pathways of multiply-twinned gold nanoparticles by in situ liquid cell transmission electron microscopy", ACS Nano, 14(8) (2020) 9594-9604.

[5] Xiaoxiang Yang, Xin Chen*, Hongliang Cao, Chang Li, Lingling Wang, Yulian Wu, Chuanzhen Wang, Yan Li, "Rational synthesis of Cu₇Se₄-Cu_xCo_{1-x}Se₂ double-shell hollow nanospheres for high performance supercapacitors", Journal of Power Sources, 480 (2020) 228741.