

基本信息

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职务		
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教育背景

2011.09-2017.07	北京理工大学，化学专业，理学博士
2007.09-2011.07	青岛农业大学，材料化学专业，理学学士

工作经历

2020.07-至今	北京理工大学化学与化工学院，预聘副教授
2017.07-2020.07	清华大学，化学系，博新博士后
2016.09-2017.06	德雷塞尔大学，材料科学与工程学院，联合培养博士

研究方向

1.	纳米、团簇、单原子催化剂合成及催化性能研究
2.	燃料电池、电解水、CO ₂ 电还原等新能源电催化剂的开发及应用

荣誉奖励

1.	2017 北京理工大学优秀毕业生
2.	2016 北京理工大学金发科技奖学金
3.	2014 北京理工大学优秀研究生
4.	2014 北京理工大学唐南军奖学金
5.	2010 全国计算机建模竞赛山东省二等奖

承担项目

1.	中国博士后创新人才支持计划 BX201700131 60 万
2.	中国博士后科学基金面上资助 2018M631445 5 万
3.	北京理工大学研究生科技创新活动专项计划 2015CX10040 1 万

研究成果

相关研究成果在 *J. Am. Chem. Soc.*、*Angew. Chem. Int. Ed.*、*Chem. Soc. Rev.*、*Nano Energy*、*Chem. Mater.*、*J. Mater. Chem. A* 等国际学术期刊上发表相关论文近 20 篇，部分论文被邀请做杂志封面和被 C&EN 特别报道，其中 ESI 高被引论文 2 篇。授权国际专利一项。获第二届博士后创新人才支持计划。作为课题负责人承担中国博士后科学基金面上项目。参与国家自然科学基金面上项目、企业横向课题等项目

代表性论文

1.	Di Zhao[#] , Zheng Chen [#] , Wenjuan Yang [#] , Shoujie Liu, Xun Zhang, Yi Yu, Weng-Chon Cheong, Lirong Zheng, Fuqiang Ren, Guobing Ying, Xing Cao, Dingsheng Wang, Qing Peng, Guoxiu Wang, and Chen Chen*, MXene (Ti ₃ C ₂) vacancy-confined single-atom catalyst for efficient functionalization of CO ₂ , <i>J. Am. Chem. Soc.</i> , 2019, 141, 4086-4093. (Cover paper; Highly cited paper; Highlighted by Chemical & Engineering News)
2.	Di Zhao[#] , Kaian Sun [#] , Weng-Chon Cheong, Lirong Zheng, Chao Zhang, Shoujie Liu, Xing Cao, Konglin Wu, Yuan Pan, Zewen Zhuang, Botao Hu, Dingsheng Wang, Qing Peng, Chen Chen*, and Yadong Li, Synergistically Interactive Pyridinic-N-MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution, <i>Angew. Chem. Int. Ed.</i> , 2019, 2020, 59, 8982-8990.
3.	Di Zhao , Zewen Zhuang, Xing Cao, Chao Zhang, Qing Peng, Chen Chen* and Yadong Li*, Atomic site electrocatalysts for water splitting, oxygen reduction and selective oxidation, <i>Chem. Soc. Rev.</i> , 2020, 49, 2215-2264.
4.	Di Zhao , Ying Xiao, Xia Wang, Qing Gao, Minhua Cao,* Ultra-high lithium storage capacity achieved by porous ZnFe ₂ O ₄ /α-Fe ₂ O ₃ micro-octahedrons, <i>Nano Energy</i> , 2014, 7, 124-133.
5.	Di Zhao , Jinwen Qin, Lirong Zheng, and Minhua Cao*, Amorphous vanadium oxide/molybdenum oxide hybrid with three-dimensional ordered hierarchically porous structure as a high-performance li-ion battery anode, <i>Chem. Mater.</i> 2016, 28, 4180-4190.
6.	Di Zhao , Mallory Clites, Guobing Ying, Sankalp Kota, Jie Wang, Varun Natu, Xin Wang, Ekaterina Pomerantseva, Minhua Cao* and Michel W. Barsoum*, Alkali-induced crumpling of Ti ₃ C ₂ T _x (MXene) to form 3D porous networks for sodium ion storage, <i>Chem. Commun.</i> 2018, 54, 4533-4536.
7.	Di Zhao , Zhentao Cui, Shuguang Wang, Jinwen Qin and Minhua Cao* VN

	hollow spheres assembled from porous nanosheets for high-performance lithium storage and the oxygen reduction reaction, <i>J. Mater. Chem. A</i> , 2016, 4, 7914-7923.
8.	Di Zhao , Lirong Zheng, Ying Xiao, Xia Wang, Minhua Cao,* Lithium storage in microstructures of amorphous mixed-valence vanadium oxide as anode materials, <i>ChemSusChem</i> , 2015, 8, 2212-222. (Cover paper)
9.	Di Zhao , Minhua Cao,* Constructing highly graphitized carbon-wrapped Li_3VO_4 nanoparticles with hierarchically porous structure as a long life and high capacity anode for lithium-ion batteries, <i>ACS Appl. Mater. Interfaces</i> , 2015, 7, 25084-25093.
10.	Di Zhao , Tao Meng, Jinwen Qin, Wei Wang, Zhigang Yin, and Minhua Cao,* Rational construction of multivoids-assembled hybrid nanospheres based on VPO_4 encapsulated in porous carbon with superior lithium storage performance, <i>ACS Appl. Mater. Interfaces</i> , 2016, 9, 1437-1445.