

<u>基本信息</u>	
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<u>教育背景</u>	
2007.09-2012.07	北京大学，化学与分子工程学院，理学博士
2003.09-2007.07	北京大学，化学与分子工程学院，理学学士
<u>工作经历</u>	
2016.10-至今	北京理工大学化学与化工学院，预聘副教授、特别研究员
2012.08-2016.04	美国加州大学洛杉矶分校，化学与生物化学系，博士后
<u>研究方向</u>	
1.	纳米材料的可控合成及其催化与光学性能
2.	光、电催化合成氨与氮循环
3.	光、电催化二氧化碳还原反应
4.	能源转化反应催化剂的设计、制备与优化
<u>承担项目</u>	
1.	国家自然科学基金青年项目，“稀土掺杂上转换发光纳米晶与贵金属表面等离子材料的可控复合及发光增强研究”，2017-2019，20 万元，主持。
2.	国家自然科学基金面上项目，“高效电化学合成氨纳米金属催化剂的设计合成与性能优化”，2020-2023，65 万元，主持。
3.	北京自然科学基金，“低维化学合成材料在超小节点电子器件中的应用”，2021-2023，35 万元，参与。

## 研究成果

主持国家自然科学基金项目 2 项。迄今在国内外学术刊物及会议上发表学术论文 35 篇，其中 SCI 收录 35 篇。

## 代表性论文

1.	Yu-Chen Hao <sup>#</sup> , Yu Guo <sup>#</sup> , Li-Wei Chen, Miao Shu, Xin-Yu Wang, Tong-An Bu, Wen-Yan Gao, Nan Zhang, Xin Su, Xiang Feng, Jun-Wen Zhou, Bo Wang, Chang-Wen Hu, <u>An-Xiang Yin</u> <sup>*</sup> , Rui Si <sup>*</sup> , Ya-Wen Zhang <sup>*</sup> and Chun-Hua Yan <sup>*</sup> , “Promoting nitrogen electroreduction to ammonia with bismuth nanocrystals and potassium cations in water”, <i>Nature Catal.</i> , <b>2019</b> , 2, 448.
2.	<u>Anxiang Yin</u> <sup>#</sup> , Hao Jing <sup>#</sup> , Zhan Wu, Qiyuan He, Yiliu Wang, Zhaoyang Lin, Yuan Liu, Mengning Ding, Xu Xu, Zhe Fei, Jianhui Jiang, Yu Huang, and Xiangfeng Duan <sup>*</sup> , “Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping”, <i>Research</i> , <b>2019</b> , 8304824.
3.	Wen-Yan Gao, Yu-Chen Hao, Xin Su, Li-Wei Chen, Tong-An Bu, Nan Zhang, Zi-Long Yu, Zhejiaji Zhu, and <u>An-Xiang Yin</u> <sup>*</sup> , “Morphology-dependent electrocatalytic nitrogen reduction on Ag triangular nanoplates”, <i>Chem. Commun.</i> , <b>2019</b> , 55, 10705.
4.	Tong-An Bu, Yu-Chen Hao, Wen-Yan Gao, Xin Su, Li-Wei Chen, Nan Zhang, and <u>An-Xiang Yin</u> <sup>*</sup> , “Promoting photocatalytic nitrogen fixation with alkali metal cations and plasmonic nanocrystals”, <i>Nanoscale</i> , <b>2019</b> , 11, 10072.
5.	Nan Zhang, Yin Wang, Yu-Chen Hao, Yuan-Man Ni, Xin Su, <u>An-Xiang Yin</u> <sup>*</sup> and Chang-Wen Hu <sup>*</sup> , “Ultrathin cobalt oxide nanostructures with morphology-dependent electrocatalytic oxygen evolution activity”, <i>Nanoscale</i> , <b>2018</b> , 10, 20313.
6.	<u>Anxiang Yin</u> , Qiyuan He, Zhaoyang Lin, Liang Luo, Yuan Liu, Sen Yang, Hao Wu, Mengning Ding, Yu Huang and Xiangfeng Duan <sup>*</sup> , “Plasmonic/nonlinear-optical Material Core/shell Nanorods as Nanoscale Plasmon Modulators and Optical Voltage Sensors”, <i>Angew. Chem. Int. Ed.</i> , <b>2016</b> , 55, 583.
7.	Zhaoyang Lin <sup>#</sup> , <u>Anxiang Yin</u> <sup>#</sup> , Jun Mao, Yi Xia, Nicholas Kempf, Qiyuan He, Yiliu Wang, Chih-Yeh Chen, Yanliang Zhang, Vidvuds Ozolins, Zhifeng Ren, Yu Huang and Xiangfeng Duan <sup>*</sup> , “Scalable solution-phase epitaxial growth of symmetry-mismatched heterostructures on two-dimensional crystal soft template”, <i>Sci. Adv.</i> , <b>2016</b> , 2, e1600993.
8.	<u>Anxiang Yin</u> , Wenchi Liu, Jun Ke, Wei Zhu, Jun Gu, Yawen Zhang <sup>*</sup> and Chunhua Yan <sup>*</sup> , “Ru Nanocrystals with Shape-Dependent Surface-Enhanced Raman Spectra and Catalytic Properties: Controlled Synthesis and DFT Calculations”, <i>J. Am. Chem. Soc.</i> , <b>2012</b> , 134, 20479.
9.	<u>Anxiang Yin</u> , Xiaoquan Min, Wei Zhu, Wenchi Liu, Yawen Zhang <sup>*</sup> and Chunhua Yan <sup>*</sup> , “Pt–Cu and Pt–Pd–Cu Concave Nanocubes with High-Index Facets and Superior Electrocatalytic Activity”, <i>Chem. Eur. J.</i> , <b>2012</b> , 18, 777.
10.	<u>Anxiang Yin</u> , Xiaoquan Min, Wei Zhu, Haoshuai Wu, Yawen Zhang <sup>*</sup> and Chunhua Yan <sup>*</sup> , “Multiply twinned Pt–Pd Nanicosahedrons as Highly Active Electrocatalyst for Methanol Oxidation”, <i>Chem. Commun.</i> , <b>2012</b> , 48, 543.

11.	<u>Anxiang Yin</u> , Xiaoquan Min, Yawen Zhang* and Chunhua Yan*, “Shape-Selective Synthesis and Facet-Dependent Enhanced Electrocatalytic Activity and Durability of Monodisperse Sub-10 nm Pt–Pd Tetrahedrons and Cubes”, <i>J. Am. Chem. Soc.</i> , <b>2011</b> , <i>133</i> , 3816.
12.	<u>Anxiang Yin</u> , Yawen Zhang* and Chunhua Yan*, “Self-Organizing Domino-Like Superlattices via Stereochemical Recognition Match at the Organic-Inorganic Interface in Solution”, <i>Chem. Eur. J.</i> , <b>2011</b> , <i>17</i> , 8033.