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科研方向：	无机纳米材料可控合成及电子结构优化调控；功能纳米材料电催化、光电催化及非均相催化性能研究。
科研成果及奖励（包括项目、专利、鉴定等）（2005年以来）：	主持项目 1.济南大学高层次人才项目 2.国家自然科学基金委项目，“过渡金属硫化物电子结构的调控与电催化析氢性能的研究” 3.山东省自然科学基金，“二硫化钼电子结构调控及电催化析氢性能研究” 4.博士后基金面上项目，“3d过渡金属硫化物电子结构与电催化析氢性能的调控研究” 5.博士后基金特别资助，“二硫化钼表/界面调控及其电催化分解水性能研究”
教学成果与奖励（2005年以来）：	1.主持校级教研项目一项，“BOPPPS教学模式在提升学生综合实践技能中的应用研究——以工业分析课程为例”
代表性论文（2005年以来）：	1. Yuqiao Guo#, Haitao Deng#, **Xu Sun**#, Xiuling Li, Jiyin Zhao, Junchi Wu, Wangsheng Chu, Sijia Zhang, Haibin Pan, Xusheng Zheng, Xiaojun Wu,* Changqing Jin,* Changzheng Wu,* Yi Xie, Modulation of Metal and Insulator States in 2D Ferromagnetic VS_2 by van der Waals Interaction Engineering, *Advanced Materials*, 2017, 10.1002/adma.201700715.

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