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【在研科研项目】

1. 国家自然科学基金：ZrO₂ 纳米晶的离子辐照效应研究（11175014），2012-2015年
2. 国际热核聚变实验堆计划专项：核聚变堆结构材料钒合金的基础研究（2014GB12001），2013年-2018年
3. 国家磁约束核聚变能发展研究专项：新型钨合金颗粒与制备技术研究（2014GB104003），2014年-2017年

【代表性学术论文】

1. Y.Q. Chang, J. Zhang, X.L. Li, Q. Guo, F.R. Wan, Y. Long, Microstructure and nanoindentation of the CLAM steel with nanocrystalline grains under Xe irradiation, Journal of Nuclear Materials, 455 (2014) 624-629.
2. C.J. Shao, Y.Q. Chang, Y. Long, High performance of nanostructured ZnO film gas sensor at room temperature, Sensors and Actuators B, 204 (2014) 666-672.
3. Y.Q. Chang, C.J. Shao, N. Jiang, S.Q. Wang, B. Zou, Y. Long, Effect of Sn on sensing performance of nanostructured ZnO film, Functional materials letters, 8 (2015) 1540009-1-5.



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【Publications】

1. Y.Q. Chang, J. Zhang, X.L. Li, Q. Guo, F.R. Wan, Y. Long, Microstructure and nanoindentation of the CLAM steel with nanocrystalline grains under Xe irradiation, *Journal of Nuclear Materials*, 455 (2014) 624-629.
2. C.J. Shao, Y.Q. Chang, Y. Long, High performance of nanostructured ZnO film gas sensor at room temperature, *Sensors and Actuators B*, 204 (2014) 666-672.
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