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| **Subject** | Condensed Matter Physics | **Research Interest** | Computational simulations on Low-dimensional Materials; Nanocatalysis |
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| **Research Projects** | Multiscale simulations on Low-dimensional Materials; Highly Efficient Nanocatalyst design; | | | |
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| **Selected Publications** | 1. **Li, S. F**, Zhao, X. J.，Xu, X. S.，Gao, Y. F，Zhang, Zhenyu，Stacking Principle and Magic Sizes of Transition Metal Nanoclusters Based on Generalized Wulff Construction，***Physical Review Letters***, 2013, 111（11）: 115501-115505; 2. J. L. Shi, X. J. Zhao, L. Y. Zhang, X. L. Xue, Z. X. Guo,Y. F. Gao, and **S. F. Li\***, Oxidized Magnetic Au Single Atom on Doped TiO2 (110) Becomes a High Performance CO Oxidation Catalyst due to Charge Effect, ***J.Mater.Chem.A 5,*** 19316(2017). 3. Haisheng Li, Xingju Zhao, Donghui Wei, Liben Li, and Shunfang Li\*, Unexpected Odd−Even Oscillation in the Enhanced Chemical Activities of the Run (n = 2−14) Nanoclusters for H2O Splitting. **J. Phys. Chem. C** 121, 7188−7198 (2017).   4）X. J. Zhao, X. L. Xue, Z. X. Guo and **S. F. Li**\*, Relative edge energy in the stability of transition metal nanoclusters of different motifs, ***Nanoscale***, 8, 12834-12842 （2016）  5）J. L. Shi, J. H. Wu, X. J. Zhao, X. L. Xue, Y. F. Gao, Z. X. Guo\*, and **S. F. Li**\*, ***Nanoscale***, 8, 19256-19262 （2016） | | | |