

Professor ZENG Xianghua

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| College | College of Electrical, Energy and Power Engineering |
| Current Position | Professor |
| Types of Tutor | Doctoral Tutor |
| Language | Chinese/English |
| Education | 1996.08--1999.07: Institute of Modern Physics, the Chinese Academy of Sciences. Doctor; 1990.08--1994.03: Institute of Modern Physics, the Chinese Academy of Sciences. Master; 1983.09--1987.06: Lanzhou University. Bachelor |
| Research Interests | Low dimensional materials and their applications including 1) the mechanism of the optoelectronic properties 2) the performance of the cells, and supercapacitors |
| Selected Publications | J. Dong, X. H. Zeng*, W. W. Xia, X. Y. Zhang, M. Zhou, Ferromagnetic Behavior of Nonstoichiometric ZnS Microspheres with a Nanoplate Netted Surface, RSC Adv., 7 (2017) 20874–20881. 2) F. Lu, M. Zhou*, W.R. Li, Q.H. Weng, C.L. Li, Y.M. Xue, X.F. Jiang, X.H. Zeng*, Y. Bando, D. Golberg*, Engineering sulfur vacancies and impurities in NiCo ₂ S ₄ nanostructures toward optimal supercapacitive performance, Nano Energy 26 (2016) 313–323 3) W.W. Xia, C. Mei, X. H. Zeng*, S. Chang, G. Q. Wu, X. S. Shen, Mesoporous Multi-shelled ZnO Microspheres for the Scattering Layer of Dye Sensitized Solar Cell with a High Efficiency, Appl. Phys. Lett. 108 (2016) 113902 (5 pp) 4) H. He*, H. B. Wang, K. Li, J. Zhu, J. S. Liu, X. D. Meng, X. S. Shen, X. H. Zeng*, W. P. Cai, Green and Tunable Decoration of Graphene with Spherical Nanoparticles Based on Laser Ablation in Water: A Case of Ag Nanoparticle/Graphene Oxide Sheet Composites, Langmuir 32 (2016) 1667–1673. |

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| | <p>5) H. He*, K. Li, J. Dong, J. Xia, Y. Zhang, T. H. Yang, X. L. Zhao, Q. L. Huang, X. H. Zeng*, Mesoporous Au nanotube-constructed three dimensional films with excellent SERS performance based on the nanofiber template-displacement reaction strategy, RSC Advances, 2016, 6, 4429-4433.</p> <p>6) G. Q. Wu*, X. S. Ye, X. H. Zeng*, B. Wu, W. G. Clark, Direct observation of charge state in the quasi-one-dimensional conductor Li_{0.9}Mo₆O₁₇, Scientific Report, 6, 20721 (2016).(12 pp)</p> <p>7) G. Q. Wu*, X. S. Ye, X. H. Zeng*, B. Wu, W G Clark, Investigation of the magnetic dipole field at the atomic scale in quasi-one-dimensional paramagnetic conductor Li_{0.9}Mo₆O₁₇, J. Phys.: Condens. Matter 28 (2016) 015003 (13 pp)</p> <p>8) H. B. Wang, X. H. Zeng*, W. W. Xia, X. Zhou, M. Zhou, X. S. Shen, Nanosheet-built tin-oxides hollow microsphere and their phase transition with an annealing treatment, Mater. Res. Bull. 70 (2015) 697–703.</p> <p>9) X. H. Zeng*, S. J. Yan, J.Y. Cui, H. F. Liu, J. Dong, W. W. Xia, M. Zhou, H. T. Chen, Size- and morphology-dependent optical properties of ZnS:Al one-dimensional structures, J Nanopart Res 17(2015) 188(11pp).</p> <p>10) W. W. Xia, C. Mei, X. H. Zeng*, G. K. Fan, J. F. Lu, X. D. Meng, X. S. Shen, Nanoplate-Built ZnO Hollow Microspheres Decorated with Gold Nanoparticles and Their Enhanced Photocatalytic and Gas-Sensing Properties, ACS Appl. Mater. Interfaces 7 (2015) 11824–11832.</p> |
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