

Associate Professor CHEN Haitao

College	College of Physical Science and Technology
Current Position	Associate Professor
Types of Tutor	Master Tutor
Language	Chinese/English
Education	2006-2009 Nanjing University, Doctor 2003-2006 Henan University, Master 1999-2003 Henan University, Bachelor 2011-2012 RWTH University, High Visiting Scholars
Research Interests	Preparation and photoelectric application of low dimensional functional nanostructures
Selected Publications	<ol style="list-style-type: none">1. H. T. Chen, A. Q. Guo, J. Zhu, L. W. Cheng, and Q. Wang, Tunable photoluminescence of CsPbBr₃ perovskite quantum dots for their physical research, Appl. Surf. Sci. 465 656 (2019).2. H. T. Chen, A. Q. Guo, X. Y. Gu, and M. Feng, Highly luminescent CsPbX₃ (X=Cl, Br, I) perovskite nanocrystals with tunable photoluminescence properties, J. Alloys Compd. 789 392-399 (2019).3. H. T. Chen, A. Q. Guo, S. H. Huang, J. Zhu, and L. W. Cheng, Enhanced removal of organic dyes from porous channel-like SnO₂ nanostructure, Mater. Res. Express 4(5) 055019 (2017).4. H. T. Chen, A. Q. Guo, Q. Q. Ding, J. Zhu, and L. W. Cheng, Dispersedly embedded loading of SnO₂ nanoparticles onto graphene nanosheets for highly efficient removal of organic dyes, J. Nanophoton. 11(2) 026009

	<p>(2017)</p> <ol style="list-style-type: none"> 5. <u>H. T. Chen</u>, M. Gu, X. M. Pu, J. Zhu, and L. W. Cheng, Fabrication of SnO₂@SnS₂ heterostructure with enhanced visible light photocatalytic activity, Mater. Res. Express 3, 065002 (2016). 6. <u>H. T. Chen</u>, X. M. Pu, M. Gu, J. Zhu, and L. W. Cheng, Tailored synthesis of SnO₂@graphene nanocomposites with enhanced photocatalytic response, Ceram. Inter. 42, 17717 (2016). 7. <u>H. T. Chen</u>, D. Zhang, G. S. Chen, J. Zhu, X. B. Chen, and X. H. Zeng, Controllable synthesis and optical properties of SnO₂ core-shell microspheres, Micro & Nano Letters, 9, 243 (2014). 8. <u>H. T. Chen</u>, D. Zhang, X. M. Zhou, J. Zhu, X. B. Chen, and X. H. Zeng, Controllable construction of ordered porous SnO₂ nanostructures and their application in photocatalysis, Mater. Lett. 116, 127-130 (2014). 9. <u>H. T. Chen</u>, X. M. Zhou, W. M. Zhu, J. Zhu, L. Fan, and X. B. Chen, A novel method to synthesize ordered porous SnO₂ nanostructures and their optical properties, Appl. Phys. A: Mater. Sci. Process. 108(1), 143-147 (2012). 10. <u>H. T. Chen</u>, G. S. Chen, X. M. Zhou, W. M. Zhu, X. B. Chen, and X. H. Zeng, Defect-related energy structures of AlN nanotips probed by photoluminescence, J. Phys. D: Appl. Phys. 44(50), 9405(5P) (2011). 11. <u>H. T. Chen</u>, W. M. Zhu, X. M. Zhou, J. Zhu, L.
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	<p>Fan, and X. B. Chen, Formation of porous SnO₂ by anodic oxidation and their optical properties, Chem. Phys. Lett. 515(4-6), 269-273, (2011).</p> <p>12. H. T. Chen, Y. P. Hu, X. H. Zeng, Green photoluminescence mechanism in ZnS nanostructures, J. Mater. Sci. 46(8), 2715-2719 (2011).</p> <p>13. H. T. Chen, X. L. Wu, Y. Y. Zhang, and W. N. Su, Porous silicon based β-FeSi₂ and photoluminescence, Appl. Phys. A: Mater. Sci. Process. 97(3), 725-728 (2009).</p> <p>14. H. T. Chen, Y. Y. Zhang, X. L. Wu, J. Zhu, Y. C. Cheng, and Paul K. Chu, A novel hydrothermal route to synthesize solid SnO₂ nanospheres and their photoluminescence property, Appl. Phys. A: Mater. Sci. Process. 97(3), 581-585 (2009).</p> <p>15. H. T. Chen, X. L. Wu, S. J. Xiong, W. C. Zhang, J. Zhu, Red photoluminescence mechanism in SnO₂ nanostructures, Appl. Phys. A: Mater. Sci. Process. 97(2), 365-368 (2009).</p> <p>16. H. T. Chen, S. J. Xiong, X. L. Wu, J. Zhu, J. C. Sheng, and Paul K. Chu, Tin oxide nanoribbons with vacancy structures in luminescence-sensitive oxygen sensing, Nano Lett. 9(5), 1926-1931 (2009).</p> <p>17. H. T. Chen, X. L. Wu, X. Xiong, W. C. Zhang, L. L. Xu, J. Zhu, and Paul K. Chu, Formation mechanism and photoluminescence of AlN nanowhiskers, J. Phys. D: Appl. Phys. 41(2), 025101 (2008).</p>
Email	htchen@yzu.edu.cn

