



当前位置：首页 (<http://www.nanoctr.cas.cn/sy2017/>) > / 人才队伍 (<http://www.nanoctr.cas.cn/rcdw2017/>)

人才队伍

- > 院士 (<http://www.nanoctr.cas.cn/rcdw2017/ys/>)
- > 研究员 (<http://www.nanoctr.cas.cn/rcdw2017/yjy/>)
- > 副研究员 (<http://www.nanoctr.cas.cn/rcdw2017/fyjy/>)
- > 青年创新促进会 (<http://www.nanoctr.cas.cn/rcdw2017/qch2017/>)

人才队伍

姓名:	唐智勇	性别:	男	
职务:	中心副主任	职称:	研究员	
通讯地址:	北京市海淀区中关村北一条11号			
邮政编码:	100190	电子邮件:	zytang(AT)nanoctr.cn	

简历：

唐智勇, 国家纳米科学中心研究员, 博士生导师, 科技部973 (纳米重大研究计划) 首席科学家, Nanoscale Horizons和Scientific Reports编委, Small, ChemPhysChem, Nanoscale, Nano Research, Materials Research Express顾问编委。1993年毕业于武汉大学环境科学系, 1996年在武汉大学环境科学系获理学硕士学位, 2000年在中国科学院长春应用化学研究所获理学博士学位, 指导老师为汪尔康院士。2000-2001年, 2001-2006年分别在瑞士苏黎世联邦高等工业学院Prins教授研究小组和美国密歇根大学Kotov教授研究小组从事纳米材料的研究工作。2006年11月回国加入国家纳米科学中心

唐智勇研究员课题组 (<http://www.nanoctr.cn/zhiyongtang/ketizu/>)

研究领域：

纳米功能材料在环境和能源领域的应用

获奖及荣誉：

2009年入选新世纪百千万人才工程国家级人选, 2010年获“Scopus寻找青年科学之星”材料科学青年科学之星成就奖, 2012年获中国科学院“杰出青年”, 2013年入选*ChemComm* “Emerging Investigator”, 2013年获“国务院政府特殊津贴”, 2013年入选科技部“2013年度创新人才推进计划中青年科技创新领军人才”, 2014年入选Fellow of the Royal Society of Chemistry (FRSC), 2015年、2016年入选Elsevier“中国高被引学者”, 2015年获RSC Inorganic Chemistry Frontiers Award for Outstanding Young Scientist, 2016年获英国皇家化学会“Editorial Board Award”, 2016年获第八届中国化学会-巴斯夫公司青年知识创新奖。

代表论著：

47. Zhao, M.; Yuan, K.; Wang, Y.; Li, G.;* Guo, J.; Gu, L.; Hu, W.; Zhao, H.;* **Tang, Z.*** Metal-Organic Frameworks as Selectivity Regulators for Hydrogenation Reactions. *Nature*, 2016, 539, 76-80.

46. Zhao, S.; Wang, Y.; Dong, J.; He, C.-T.; Yin, H.; An, P.; Zhao, K.; Zhang, X.; Gao C.; Zhang, L.; Lv, J.; Wang, J.; Zhang, J.; Khattak, A. M.; Khan, N. A.; Wei, Z.; Zhang, J.; Liu, S.;* Zhao, H.;* **Tang, Z.*** Coordinative unsaturation engineering on ultrathin bimetal-organic frameworks nanosheets toward high performance electrocatalysts. *Nature Energy* 2016, 1, 16184.

45. Gong, J.; Newman, R. S.; Engel, M.; Zhao, M.; Bian, F.; Glotzer, S. C.; * **Tang, Z.*** Shape-dependent Ordering of Gold nanocrystals into Large-scale Superlattices. *Nature Communications*, 2016, 7, 14038.
44. Ding, D.; Wang, D.; Zhao, M.; Lv, J.; Lu, C.*; **Tang, Z.*** Interface Engineering in Solution-Processed Nanocrystal Thin Films for Improved Thermoelectric Performance *Advanced Materials* 2016, Accepted.
43. Gao, C.; Meng, Q.; Zhao, K.; Yin, H.; Wang, D.; Guo, J.; Zhao, S.; Chang, L.; He, M.; Li, Q.; Zhao, H.; Huang, X.; Gao, Y.*; **Tang, Z.*** Co₃O₄ Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visible-Light Photocatalytic Reduction of CO₂. *Advanced Materials* 2016, 28, 6485-6490.
42. Lu, C.; **Tang, Z.*** Advanced Inorganic Nanoarchitectures from Oriented Self-Assembly. *Advanced Materials* 2016, 28, 1096-1108.
41. Yin, H.; **Tang, Z.*** Ultrathin Two-Dimensional Layered Metal Hydroxides: an Emerging Platform for Advanced Catalysis, Energy Conversion and Storage. *Chemical Society Reviews* 2016, 45, 4873-4891.
40. Li, Y.; Tang, J.; He, L.; Liu, Y.; Liu, Y.*; Chen, C.*; **Tang, Z.*** Core-Shell Upconversion Nanoparticle@Metal-Organic Framework Nanopores for Luminescent/Magnetic Dual-Mode Targeted Imaging. *Advanced Materials* 2015, 27, 4075-4080.
39. Yin, H.; Zhao, S.; Zhao, K.; Muqsit, A.; Tang, H.; Chang, L.; Zhao, H.; Gao, Y.; **Tang, Z.*** Ultrathin Platinum Nanowires Grown on Single-Layered Nickel Hydroxide with High Evolution Activity. *Nature Communications*, 2015, 6, 6430.
38. Liu, X.; He, L.; Zheng, J.; Guo, J.; Bi, F.; Ma, X.; Zhao, K.; Liu Y.*; Song, R.*; **Tang, Z.*** Solar Light Driven Renewable Butanol Separation by Core-Shell Ag-ZIF-8 Nanowires. *Advanced Materials* 2015, 27, 3273-3277.
37. Tang, H.; Wang, J.; Yin, H.; Zhao, H.; Wang, D.*; **Tang, Z.*** Growth of Polypyrrole Ultrathin Films on MoS₂ Monolayers as High-Performance Supercapacitor Electrodes. *Advanced Materials* 2015, 27, 1117-1123.
36. Cheng, Q.*; Jiang, L.; **Tang, Z.*** Bioinspired Layered Materials with Superior Mechanical Performance. *Accounts Chemical Research* 2014, 47, 1256-1266.
35. Wan, J.; Fang, G.*; Yin, H.; Liu, X.; Liu, D.; Zhao, M.; Ke, W.; Tao, H.; **Tang, Z.*** Pt-Ni Alloy Nanoparticles as Superior Counter Electrodes for Dye-Sensitized Solar Cells: Experimental and Theoretical Understanding. *Advanced Materials* 2014, 26, 8101-8106.
34. Bian, T.; Shang, L.; Yu, H.; Perez, M. T.; Wu, L.-Z.; Tung, C.-H.; Nie, Z.*; **Tang, Z.***; Zhang, T.* Spontaneous Organization of Inorganic Nanoparticles into Nanovesicles Triggered by UV Light. *Advanced Materials* 2014, 26, 5613-5618. (Inside Back Cover)
33. Han, B.; Zhu, Z.; Li, Z.; Zhang, W.; **Tang, Z.*** Conformation Modulated Optical Activity Enhancement in Chiral Cysteine and Au Nanorod Assemblies. *Journal of the American Chemical Society* 2014, 136, 16104-16107.
32. Zhao, M.; Deng, K.; He, L.; Liu, Y.; Li, G.*; Zhao, H.; **Tang, Z.*** Core-Shell Palladium Nanoparticle@Metal-Organic Frameworks as Multifunctional Catalysts for Cascade Reactions. *Journal of the American Chemical Society* 2014, 136, 1738-1741.
31. Zhu, Z.; Guo, J.; Liu, W.; Li, Z.; Han, B.; Zhang, W.*; **Tang, Z.*** Controllable Optical Activity of Gold Nanorod and Chiral Quantum Dot Assemblies. *Angewandte Chemie International Edition* 2013, 52, 13571-13575.
30. Yin, H.; Zhao, S.; Wan, J.; Tang, H.; Chang, L.; He, L.; Zhao, H.; Gao, Y.*; **Tang, Z.*** Three-Dimensional Graphene/Metal Oxide Nanoparticle Hybrids for High-Performance Capacitive Deionization of Saline Water. *Advanced Materials* 2013, 25, 6270-6276.
29. Liu, Y.; **Tang, Z.*** Multifunctional Nanoparticle@MOF Core-Shell Nanostructures. *Advanced Materials* 2013, 25, 5819-5825.
28. Liu, W.; Zhu, Z.; Deng, K.; Li, Z.; Zhou, Y.; Qiu, H.; Gao, Y.*; Che, S.*; **Tang, Z.*** Gold Nanorod@Chiral Mesoporous Silica Core-Shell Nanoparticles with Unique Optical Properties. *Journal of the American Chemical Society* 2013, 135, 9659-9664.
27. Wang, X.; Yang, J.; Yin, H.; Song, R.*; **Tang, Z.*** "Raisin Bun" -Like Nanocomposites of Palladium Clusters and Porphyrin for Superior Formic Acid Oxidation. *Advanced Materials* 2013, 25, 2728-2732.
26. Tang, H.; Yin, H.; Wang, J.; Yang, N.; Wang, D.*; **Tang, Z.*** Molecular Architecture of Cobalt Porphyrin Multilayers on Reduced Graphene Oxide Sheets for High Performance Oxygen Reduction Reaction. *Angewandte Chemie International Edition* 2013, 52, 5585-5589.
25. He, L.; Liu, Y.; Liu, J.; Xiong, Y.; Zheng, J.; Liu, Y.*; **Tang, Z.*** Core-Shell Noble-Metal@Metal-Organic-Framework Nanoparticles with Highly Selective Sensing Property. *Angewandte Chemie International Edition* 2013, 52, 3741-3745.
24. Cheng, Q.*; Wu, M.; Li, M.*; Jiang, L.; **Tang, Z.*** Ultratough Artificial Nacre Based on Conjugated Cross-linked Graphene Oxide. *Angewandte Chemie International Edition* 2013, 52, 3750-3755. (Inside Back Cover of This Issue)
23. Cheng, Q.*; Li, M.; Jiang, L.; **Tang, Z.*** Bioinspired Layered Composite Based on Flattened Double-Walled Carbon Nanotube. *Advanced Materials* 2012, 24, 1838-1843. (Cover)
22. Li, Z.; Zhu, Z.; Liu, W.; Zhou, Y.; Han, B.; Gao, Y.; **Tang, Z.*** Reversible Plasmonic Circular Dichroism of Au Nanorod and DNA Assemblies. *Journal of the American Chemical Society* 2012, 134, 3322-3325.
21. Dong, Z.; Lai, X.; Halpert, J. E.; Yang, N.; Yi, L.; Zhai, J.; Wang, D.*; **Tang, Z.***; Jiang, L. Accurate Control of Multishelled ZnO Hollow Microspheres for Dye-Sensitized Solar Cells with High Efficiency. *Advanced Materials* 2012, 24, 1046-1049.
20. Wang, J.; Cheng, Q.*; **Tang, Z.*** Layered Nanocomposites Inspired by Structure and Mechanical Property of Nacre. *Chemical Society Review* 2012, 41, 1111-1129. (Cover)
19. Zhou, Y.; Zhu, Z.; Huang, W.; Liu, W.; Wu, S.; Liu, X.; Zhang, W.*; **Tang, Z.*** Optical Coupling between Chiral Biomolecules and Semiconductor Nanoparticles: Size-Dependent Circular Dichroism Absorption. *Angewandte Chemie International Edition* 2011, 50, 11456-11459.
18. Li, Z.; Cheng, E.; Huang, W.; Zhang, T.; Yang, Z.; Liu, D.*; **Tang, Z.*** Improving the Yield of Mono-DNA-Functionalized Gold Nanoparticles through Dual Steric Hindrance. *Journal of the American Chemical Society* 2011, 133, 15284-15287.

17. Xia, Y.; Nguyen, T.; Yang, M.; Lee, B.; Santos, A.; Podsiadlo, P.; **Tang, Z.**;^{*} Glotzer, S. C.;^{*} Kotov N. A.^{*} Self Assembly of Self-Limiting, Monodisperse Supraparticles from Polydisperse Nanoparticles. *Nature Nanotechnology* 2011, 6, 580-587.
16. Li, Y.; Zhou, Y.; Wang, H.; Perrett, S.; Zhao, Y.;^{*} **Tang, Z.**;^{*} Nie G.,^{*} Chirality of Glutathione Surface Coating Affects the Toxicity of Quantum Dots. *Angewandte Chemie International Edition*, 2011, 123, 5982-5986.
15. Zhu, Z.; Meng, H.; Liu, W.; Liu, X.; Gong, J.; Qiu, X.; Jiang, L.; Wang D.;^{*} **Tang, Z.**;^{*} Superstructures and SERS Properties of Gold Nanocrystals with Different Shapes. *Angewandte Chemie International Edition*, 2011, 50, 1593-1596.
14. Li, C.; Deng, K.; **Tang, Z.**;^{*} Jiang, L. Twisted Metal-Amino Acid Nanobelts: Chirality Transcription from Molecules to Frameworks. *Journal of the American Chemical Society*, 2010, 132, 8202-8209.
13. Zhou, Y.; Yang, M.; Sun, K.; **Tang, Z.**;^{*} Kotov, N. A.^{*} Similar Topological Origin of Chiral Centers in Organic and Nanoscale Inorganic Structures: Effect of Stabilizer Chirality on Optical Isomerism and Growth of CdTe Nanocrystals. *Journal of the American Chemical Society*, 2010, 132, 6006-6013.
12. Qin, B.; Chen, H.; Liang, H.; Fu, L.; Liu, X.; Qiu, X.; Liu, S.;^{*} Song, R.;^{*} **Tang, Z.**;^{*} Reversible Photoswitchable Fluorescence in Thin Films of Inorganic Nanoparticle and Polyoxometalate Assemblies. *Journal of the American Chemical Society*, 2010, 132, 2886-2888.
11. Niu, W.; Zheng, S.; Wang, D.; Liu, X.; Li, H.; Han, S.; Chen, J.; **Tang, Z.**;^{*} Xu, G.^{*} Selective Synthesis of Single-Crystalline Rhombic Dodecahedral, Octahedral, and Cubic Gold Nanocrystals. *Journal of the American Chemical Society* 2009, 131, 697-703.
10. Qin, B.; Zhao, Z.; Song, R.;^{*} Shanbhag, S.;^{*} **Tang, Z.**;^{*} A Temperature-Driven Reversible Phase Transfer of 2-(Diethylamino)ethanethiol-Stabilized CdTe Nanoparticles. *Angewandte Chemie International Edition* 2008, 47, 9875 -9878.
9. Han, W.; Yi, L.; Zhao, N.; Tang, A.; Gao, M.;^{*} **Tang, Z.**;^{*} Synthesis and Shape-Tailoring of Copper Sulfide/Indium Sulfide-Based Nanocrystals. *Journal of the American Chemical Society* 2008, 130, 13152-13161.
8. **Tang, Z.**; Zhang, Z.; Wang, Y.; Glotzer, S. C.;^{*} Kotov, N. A.^{*} Self-Assembly of CdTe Nanocrystals Into Free-Floating Sheets. *Science* 2006, 314, 274-278.
7. **Tang, Z.**; Wang, Y.; Podsiadlo, P.; Kotov, N. A.^{*} Spontaneous CdTe - Alloy - CdS Transition of Stabilizer-Depleted CdTe Nanoparticles Induced by EDTA. *Journal of the American Chemical Society* 2006, 128, 7036-7042.
6. **Tang, Z.**; Wang, Y.; Shanbhag, S.; Giersig, M. Kotov, N. A.^{*} Self-Reorganization of CdTe Nanoparticles into Highly Asymmetrical, Angled Te Nanocrystals. *Journal of the American Chemical Society* 2006, 128, 6730-6736.
5. **Tang, Z.**; Wang, Y.; Sun, K.; Kotov, N. A. Spontaneous Transformation of Stabilizer-Depleted Binary Semiconductor Nanoparticles into Selenium and Tellurium Nanowires. *Advanced Materials* 2005, 17(3), 358-363 (Cover of this issue).
4. **Tang, Z.**; Kotov, N. A.;^{*} Magonov, S.; Ozturk, B. Nanostructured Artificial Nacre. *Nature Materials* 2003, 2, 413-418.
3. **Tang, Z.**; Kotov, N. A.;^{*} Giersig, M. Spontaneous Organization of Single CdTe Nanoparticles into Luminescent Nanowires. *Science* 2002, 297, 237-240.
2. **Tang, Z.**; Wang, Y.; Podsiadlo, P.; Kotov, N. A.^{*} Biomedical Applications of Layer-by-Layer Assembly: From Biomimetics to Tissue Engineering. *Advanced Materials* Invited Review, 2006, 3203-3224.
1. **Tang, Z.**; Kotov, N. A.^{*} One-Dimensional Assemblies of Nanoparticles: Preparation, Properties, and Promise. *Advanced Materials* Invited Review, 2005, 17, 951-962.

承担科研项目情况：

国家863计划，科技部纳米重大计划，自然科学基金委项目

理事单位 (<http://www.nanoctr.cas.cn/lswd2017/>) | 机构设置 (<http://www.nanoctr.cas.cn/jgsz2017/>) |

挂靠单位 (<http://www.nanoctr.cas.cn/gkdw2017/>) | 博士后流动站 (<http://www.nanoctr.cas.cn/bshldz2017/>) |

招生咨询 (<http://page.renren.com/601127764?checked=true>) | 主任信箱 (<http://www.nanoctr.cas.cn/zrxx2017/>) |

信访举报 (<http://www.nanoctr.cas.cn/xfjh/>) | 友情链接 (<http://www.nanoctr.cas.cn/xeli/vol12017/>)