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简历：

杨蓉，研究员，博士生导师。2006年于美国俄亥俄大学获得理学博士学位。2006年至2007年在美国明尼苏达大学化工材料系做博士后，2008年起在国家纳米科学中心工作，从事材料、生物、化学和物理之间交叉的新兴科学的研究。研究工作涉及纳米功能材料的可控制备及组装，功能材料的表/界面结构、理化性质，及纳米功能材料的生物医学应用。在纳米模拟酶领域也开展了一系列研究工作。作为项目负责人/项目骨干，主持/参与了多项国家级、中科院系统科研项目。在国际重要学术刊物上发表论文50余篇，获得多项发明专利授权。

目前主要研究方向：（1）纳米功能材料及其应用研究；（2）纳米/生物界面构筑及性质研究；（3）纳米材料在生物医学中的应用。

研究领域：

纳米功能材料及其在生物医学中的应用

代表论著：

1. Q Han, X Wang, S Cai, X Liu, Y Zhang, L Yang, C Wang, **R Yang***, Quercetin nanoparticles with enhanced bioavailability as multifunctional agents toward amyloid induced neurotoxicity, *J.Mater. Chem. B*, 2018, 6 (9), 1387-1393
2. S. Cai, X. Liu, Q. Han, C. Qi, **R. Yang***, C. Wang*, A novel strategy to construct supported Pd nanocomposites with synergistically enhanced catalytic performances, *Nano Research*, 2018,11(6), 3272-3281.
3. X. Wang, Q. Han, N. Yu, T. Wang, C. Wang, **R. Yang***, GO-AgCl/Ag nanocomposites with enhanced visible light-driven catalytic properties for antibacterial and biofilm-disrupting applications, *Colloids Surf. B: Biointerfaces*, 2018,162, 296-305 (IF=3.887)
4. Q. Han, X. Wang, X. Jia, S. Cai, **R. Yang***, C. Wang, CpG loaded MoS2 nanosheets as multifunctional agents for photothermal enhanced cancer immunotherapy, *Nanoscale*, 2017, 9 (18),5927-5934 (IF=7.367)
5. Q. Han, S. Cai, L. Yang, X. Wang, **R. Yang***, C. Wang, Molybdenum Disulfide Nanoparticles as Multifunctional Inhibitors against Alzheimer's Disease, *ACS Appl Mater. Interface*, 2017, 9 (25),21116-21123. (IF 7.50)
6. S. Cai, X. Jia, Q. Han, X. Yan, **R. Yang***, C. Wang*, "Porous PtAg nanoparticles with excellent multifunctional enzyme mimic activities and antibacterial effects", *Nano Research*, 2017, 10 (6) :2056-2069. (IF=7.35)
7. S. Cai, Q. Han, C. Qi, X. Wang, T. Wang, X. Jia, **R. Yang***, C. Wang*, MoS2-Pt3Au Hybrids with Enhanced Peroxidase-Like Activities for Selective Colorimetric Detection of Phenol, *Chin. J. Chem.*, 2017, 35(5) 605-612 (invited paper)
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9. X. Jia, I. Ahmad, **R. Yang***, C. Wang*, Versatile graphene-based photothermal nanocomposites for effectively capturing and killing bacteria, and for destroying bacterial biofilms, *J. Mater. Chem. B*, 2017,5, 2459-2467
10. I. Ahmad, A. Mozhi, L. Yang, Q. Han, X. Liang, C. Li, **R. Yang***, C. Wang, Graphene oxide-iron oxide nanocomposite as an inhibitor of A β 42 amyloid peptide aggregation, *Colloids Surf. B: Biointerfaces*, 2017, 159,540-545, (IF=3.887)
11. J. Li, Cui Qi, Z. Lian, Q. Han, X. Wang, S. Cai, R. Yang* and C. Wang*, A Cell-Capture and Release Platform Based on Peptide-Aptamer-modified Nanowires, *ACS Appl. Mater. Inter.*, 2016, 8, 2511-2516. (IF 7.50)
12. S. Cai, C. Qi, Q. Han, Y. Li, R. Yang*, C. Wang. "PtCo Bimetallic Nanoparticles with High oxidase-like catalytic activity and their applications for magnetic-enhanced colorimetric biosensing", *J. Mater. Chem. B*, 2016, 4, 1869-1877. (IF=4.7)
13. S. Cai, Q. Han, C. Qi, Z. Lian, X. Jia, R. Yang* and C. Wang*. "Pt74Ag26 nanoparticle-decorated monolayer MoS2 nanosheets as novel peroxidase mimics for highly selective colorimetric detection of H2O2 and glucose", *Nanoscale*, 2016, 8, 3685-3693.
14. C. Qi, S. Cai, X. Wang, J. Li, Z. Lian, S. Sun, **R. Yang***, C. Wang*. Enhanced Oxidase/peroxidase-like Activities of Aptamer Conjugated MoS2/PtCu Nanocomposites and Their Biosensing Application, *RSC Advances*, 2016,6, 54949-54955
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16. Z. Han, X Wang, C. Heng, Q. Han, S. Cai, J Li, C. Qi, W. Liang, **R. Yang***, C. Wang, "Synergistic enhanced photocatalytic and chemotherapeutic effects of aptamer-functionalized ZnO nanoparticles towards cancer cells", *Phys. Chem. Chem. Phys*, 2015, 17(33), 21576 - 21582 (IF=4.5)
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19. **R. Yang***, Y. Zhang, J. Li, Q. Han, W. Zhang, C. Lu, Y. Yang, H. Dong, C. Wang*, "Graphene Oxide Assisted Synthesis of GaN Nanostructures for Reducing Tumor Cell Adhesion", *Nanoscale*, 2013, 5, 11019-11027. (IF 7.3)
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承担科研项目情况：

作为项目负责人/项目骨干,主持/参与了多项国家自然科学基金面上基金项目、国家科技重点专项、国家自然科学基金委国际合作与交流项目、中科院战略性先导科技专项、中科院知识创新工程项目。

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