1. 本项目研究发表的主要论文（首页）

（1）Shijia Wu, Nuo Duan, Xiaoyuan Ma, Yu Xia, Hongxin Wang, Zhouping Wang* and Qian Zhang. Multiplexed Fluorescence Resonance Energy Transfer Aptasensor between Upconversion Nanoparticles and Graphene Oxide for the Simultaneous Determination of Mycotoxins. Anal. Chem., 2012, 84:6263-6270. (IF 5.856)

（2）Shijia Wu, Nuo Duan, Xiaoyuan Ma, Yu Xia, Zhouping Wang* and Hongxin Wang. Simultaneous detection of enterovirus 71 and coxsackievirus A16 using dual-colour upconversion luminescent nanoparticles as labels. Chem. Comm., 2012, 48 (40):4866-4868. (IF 6.169)

（3）Nuo Duan, Shijia Wu, Changqing Zhu, Xiaoyuan Ma, Zhouping Wang*, Ye Yu, and Yuan Jiang. Dual-color upconversion fluorescence and aptamer-functionalized magnetic nanoparticles-based bioassay for the simultaneous detection of Salmonella Typhimurium and Staphylococcus aureus. Anal. Chim. Acta., 2012, 723:1-6. (IF 4.555)

（4）Nuo Duan, Shijia Wu, Xiujuan Chen, Yukun Huang, Zhouping Wang*. Selection and identification of a DNA aptamer targeted to Vibrio parahaemolyticus. J. Agr. Food Chem., 2012, 60:4034-4038. (IF 2.823)

（5）Shijia Wu, Nuo Duan, Changqing Zhu, Xiaoyuan Ma, Miao Wang and Zhouping Wang*. Magnetic nanobead-based immunoassay for the simultaneous detection of aflatoxin B1 and ochratoxin A using upconversion nanoparticles as multicolor labels. Biosens. Bioelectron., 2011, 30:35-42 (IF 5.602)

（6）Shijia Wu, Nuo Duan, Zhouping Wang*, and Hongxin Wang. Aptamer-functionalized magnetic nanoparticles-based bioassay for the detection of ochratoxin A using upconversion nanoparticles as label. Analyst, 2011, 136 (11):2306-2314. (IF 3.913)

（7）Xiaoyuan Ma, Weiping Qian*. Phenolic acid induced growth of gold nanoshells precursor composites and their application in antioxidant capacity assay. Biosens. Bioelectron., 2010, 26 (3):1049-1055. (IF 5.602)

（8）Hui Li, Xiaoyuan Ma, Jian Dong, Weiping Qian*. Development of methodology based on the formation process of gold nanoshells for detecting hydrogen peroxide scavenging activity. Anal. Chem., 2009, 81 (21):8916-8922. (IF 5.856)

（9）Shijia Wu, Nuo Duan, Changqing Zhu, Xiaoyuan Ma, Miao Wang, Zhouping Wang*. Magnetic nanobead-based immunoassay for the simultaneous detection of aflatoxin B1 and ochratoxin A using upconversion nanoparticles as multicolor labels. Biosens. Bioelectron., 2011, 30 (1):35-42. (IF 5.602)

（10）Zhouping Wang*, Nuo Duan, Xu Hun, Shijia Wu. Electrochemiluminescent aptamer biosensor for the determination of Ochratoxin A at gold nanoparticles modified gold electrode using N-(aminobutyl)-N-ethylisoluminol as a luminescent label. Anal. Bioanal. Chem., 2010, 398 (5):2125-2132. (IF 3.778)

（11）Zhouping Wang*, Jinghong Li. Nanostructure presented chemiluminescence and electrochemi -luminescence. Annu. Rev. Nano Res., 2008, 2:63-101. (Invited review)

（12）Nuo Duan, Shijia Wu, Zhouping Wang*. An aptamer-based fluorescence assay for Ochratoxin A. Chinese J. Anal. Chem., 2011, 39(3):300-304 (IF 0.79)

（13）Zhaohui Huang, Shijia Wu, Nuo Duan, Dong Hua, Yu Hu, Zhouping Wang*. Sensitive detection of carcinoembryonic antigen with magnetic nano-bead and upconversion nanoparticles-based immunoassay. J. Pharm. Biomed. Anal., 2012, 66: 225-231.(IF 2.967)

（14）Zhouping Wang*, Jingquan Li, Jiayin Zhao, Nuo Duan, Huachao Sun, Yonghui Shi. Ultrasensitive chemiluminescent detection of Salmonella with DNA hybridization and silver amplification of nanogold labels. Anal. Lett., 2011, 44(6):1063-1076. (IF 1.016)

（15）Zhouping Wang*, Nuo Duan, Jingquan Li, Jing Ye, Shufeng Ma, Guowei Le. Ultrasensitive chemiluminescent immunoassay of Salmonella with silver enhancement of nanogold labels. Luminescence, 2011, 26(2):136-141 (IF 1.731)

2. 知识产权证明（申请及授权发明专利的证明文件扫描件）

（1）王周平，丁晓莹. 一种特异识别志贺氏菌的寡核苷酸适配子（ZL201010295767.3）

（2）王周平，丁晓莹. 一种特异识别单核细胞增生李斯特菌的寡核苷酸适配子（ZL 2010 10295766.9）

（3）王周平，吴世嘉，段诺. 一种适配体功能化磁性纳米材料磁分离—上转换荧光纳米材料标记检测赭曲霉毒素 A 的方法（ZL 2010 1 0295782.8）

（4）王周平，王鑫，段诺，吴世嘉，夏雨，马小媛. 一组特异性识别无乳链球菌的寡核苷酸适配子（申请号：201210570202.0）

（5）王周平，王文凤，段诺，吴世嘉，夏雨，马小媛. 一组特异性识别黄曲霉毒素 B1 的寡核苷酸适配子（申请号：201210370140.9）

（6）王周平，段诺，混旭，吴世嘉. 一种电化学发光核配体传感器检测赭曲霉毒素 A 的方法（申请号：201010271247.9；公开号：CN 101936940 A）

（7）武爱波. 一种 Cry1Ab/Ac 转基因成分配对单克隆抗体制备及检测方法（申

请号：201210089144.X ）

（8）武爱波. 一种三联免疫胶体金速测卡及其制备、使用方法（申请号：201210089130.8）

3. 科技查新报告

4. 成果应用及效益证明

（1）无锡福阳生物科技有限公司：2 份

（2）南京诺唯赞生物科技有限公司：1 份

（3）南京凯姆莱特生物科技有限公司：1 份

（4）上海***公司：1 份

5. 其它证明材料

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