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### 【在研科研项目】

1. 国家自然科学基金资助项目, 磁性流体固定床萃取分离重金属的理论分析与实验研究(51274035), 2013—2016年。
2. 国家973计划项目, 多金属磁性分离理论、工艺过程和设备研究(2013CB832602), 2013—2017年。

### 【代表性学术论文】

1. Tingting Xia, Yueping Guan, et al. Synthesis of polyethylenimine modified Fe<sub>3</sub>O<sub>4</sub> nanoparticles with immobilized Cu<sup>2+</sup> for highly efficient proteins adsorption. Colloids and Surface A: Physicochemical and Engineering Aspects [J]. 2014, 443: 552 - 559.
2. Mingzhu Yang, Yueping Guan, et al. Peroxidase-like activity of amino-functionalized magnetic nanoparticles and their applications in immunoassay, Journal of Colloid and Interface Science [J], 2013, 405: 291-295.
3. Qiang Wang, Yueping Guan, et al. Application of magnetic extractant for the removal of hexavalent chromium from aqueous solution in high gradient magnetic separator. Chemical Engineering Journal [J]. 2012, 183: 339-348.
4. Wang, Qiang Guan, Yueping Yang, et al. Application of superparamagnetic microspheres for affinity adsorption and purification of glutathione, Journal of Magnetism and Magnetic Materials [J], 2012, 324 (20) :3300-3305.
5. Qiang Wang, Yueping Guan, et al. Removal of low concentration Cr (VI) from aqueous solution by magnetic-fluids fixed bed using the high gradient magnetic separation. Journal of Colloid and Interface Science [J]. 2012, 374(1): 325-330.



**Guan Yueping**, the professor of School of Materials Science and Engineering, received his B.E. from Chang'an University in 1984 and M.E. from China University of Geosciences in 1996, and his Ph.D. from Institute of Process Engineering, Chinese Academy of Sciences in 2000. His recent research interest is in Magnetic Nanoparticles for Biomedical Science and Technology.

### **【Publications】**

1. Tingting Xia, Yueping Guan, et al. Synthesis of polyethylenimine modified Fe<sub>3</sub>O<sub>4</sub> nanoparticles with immobilized Cu<sup>2+</sup> for highly efficient proteins adsorption. *Colloids and Surface A: Physicochemical and Engineering Aspects* [J]. 2014, 443: 552 - 559.
2. Mingzhu Yang, Yueping Guan, et al. Peroxidase-like activity of amino-functionalized magnetic nanoparticles and their applications in immunoassay, *Journal of Colloid and Interface Science* [J], 2013, 405: 291-295.
3. Qiang Wang, Yueping Guan, et al. Application of magnetic extractant for the removal of hexavalent chromium from aqueous solution in high gradient magnetic separator. *Chemical Engineering Journal* [J]. 2012, 183: 339-348..
4. Wang, Qiang Guan, Yueping Yang, et al. Application of superparamagnetic microspheres for affinity adsorption and purification of glutathione, *Journal of Magnetism and Magnetic Materials* [J], 2012, 324 (20) :3300-3305.
- 5..Qiang Wang, Yueping Guan, et al. Removal of low concentration Cr (VI) from aqueous solution by magnetic-fluids fixed bed using the high gradient magnetic separation. *Journal of Colloid and Interface Science* [J]. 2012, 374(1): 325-330.