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资源与生态环境研究所



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2019.04 –至今 中科院赣江创新院 博士生导师

2013.04 - 至今 中科院海西研究院厦门稀土材料研究所 博士生导师

研究方向:

1. 稀土二次资源回收及高纯稀土制备
2. 特种稀土基核安新材料的开发: 屏蔽、保温、降噪、中子慢化/吸收
3. 稀土高熵陶瓷
4. 稀土多组分同位素分离
5. 稀土矿伴生天然放射性元素的综合利用

代表论著:

1. Ruixi Bai, Fan Yang*, Lingyi Meng, Zhigang Zhao, Wanghuan Guo, Chunqing Cai, Yang Zhang*. Polyethylenimine functionalized and scaffolded graphene aerogel and the application in the highly selective separation of thorium from rare earth. *Materials & Design*, 2020.
2. Wanghuan Guo, Zhigang Zhao, Fan Yang*, Meiyong Xie*, Zhiheng Shao, Liyan Xue, Yang Zhang, Wanqing Lin, Chang Du, Yongjian Zhang. Control of the separation order of Au(III), Pd(II), and Pt(IV) achieved by site-controllable carboxyl-functionalized diethylaminoethyl celluloses. *Cellulose*, 2020.
3. Hao Zhang, Fan Yang* , Chuan Lu* , Chang Du, Ruixi Bai, Zhigang Zhao, Chunqing Cai, Jiangguo Li. Effective decontamination of $^{99}\text{TcO}_4^-/\text{ReO}_4^-$ from Hanford low-activity waste by functionalized graphene oxide-chitosan sponges. *Environmental Chemistry Letters*, 2020.

- 4.Chunqing Cai, Fan Yang*, Zhigang Zhao, Qiuxia Liao, Wanghuan Guo, Peng Chen, Yang Zhang, Hao Zhang. Promising transport and high-selective separation of Li(I) from Na(I) and K(I) by a functional polymer inclusion membrane (PIM) system. Journal of membrane science, 2019.
- 5.Ruixi Bai, Yang Zhang, Zhigang Zhao, Qiuxia Liao, Peng Chen, Panpan Zhao, Wanghuan Guo, Fan Yang*, Laichao. Rapid and highly selective removal of lead in simulated wastewater of rare-earth industry using diglycolamic-acid functionalized magnetic chitosan adsorbents. Journal of industrial and engineering chemistry, 2018.
- 6.Ruixi Bai, Fan Yang*, Yang Zhang, Zhigang Zhao, Qiuxia Liao, Peng Chen, Panpan Zhao, Wanghuan Guo, Chunqing Cai. Preparation of elastic diglycolamic-acid modified chitosan sponges and their application to recycling of rare-earth from waste phosphor powder. Carbohydrate Polymers, 2018.
- 7.Peng Chen, Fan Yang*, Qiuxia Liao, Zhigang Zhao, Panpan Zhao, Wanghuan Guo, Ruixi Bai. Recycling and separation of rare earth resources lutetium from LYSO scraps using the diglycol amic acid functional XAD-type resin. Waste Management, 2017.
- 8.Panpan Zhao, Fan Yang*, Zhigang Zhao, Qiuxia Liao, Yang Zhang, Peng Chen, Wanghuan Guo, Ruixi Bai. A simple preparation method for rare-earth phosphate nano materials using an ionic liquid-driven supported liquid membrane system. Journal of Industrial and Engineering Chemistry, 2017.
- 9.Fan YANG, Yuzo BABA, Fukiko KUBOTA, Noriho KAMIYA, Masahiro GOTO*. Selective extraction and recovery of rare earth metals from phosphor powders in waste fluorescent lamps using an ionic liquid system. Journal of Hazardous Materials, 2013.
- 10.Fan Yang, Noriho Kamiya, Masahiro Goto. Transdermal delivery of the anti-rheumatic agent methotrexate using a solid-in-oil nanocarrier. Eur. J.Pharm. Biopharm, 2012.
- 11.申请发明专利20余项 (含国防专利2项)

获奖及荣誉:

- 1.国家级, 中国产学研合作促进会, 中国产学研合作军民协同创新奖, 国科奖社字第0191号
- 2.省级, 闽粤赣两用技术对接委员会, 闽粤赣两用技术成果奖, 三等奖
- 3.部级, 教育部国际合作与交流司, 第七届“春晖杯”中国留学人员创新创业大赛, 优胜奖
- 4.部级, 教育部国际合作与交流司, 第五届“春晖杯”中国留学人员创新创业大赛, 二等奖
- 5.其他, 2019年中国·丹徒新材料创新创业大赛总决赛, 一等奖



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