

耿同谋 教授 博士 硕士生导师

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所受教育

- 1980 年 9 月-1984 年 7 月河南师范大学化学系学习，获学士学位
- 1988 年 9 月-1991 年 3 月北京理工大学材料与化工学院高分子材料专业硕士研究生，获工学硕士学位
- 2001 年 9 月-2004 年 8 月北京理工大学材料科学与工程学院材料学专业博士研究生，获工学博士学位

研究领域

1. 荧光高分子传感器
2. 微孔有机聚合物
3. 水溶性高分子
4. 工程高分子材料

讲授课程

1. 高分子化学
2. 高分子合成新技术

获奖与荣誉

1. 耿同谋, 王迎宾, 宋凤珠, 等, “水溶性聚氨酯化学灌浆材料的试验研究”, 1996 年省科技进步奖叁等奖
2. 郝进宝, 曹雪玲, 耿同谋, 等, “混凝土工程防渗堵漏加固技术及材料研究”, 1999 年省科技进步奖叁等奖
3. 耿同谋, 王迎宾, 宋凤珠, 等, “弹性聚氨酯防水材料研究”, 1994 年省水利科技进步奖壹等奖
4. 耿同谋, 胡润亭, 范伟丽, 等, “水工建筑密封胶的研究及在变形缝止水中的应用”, 1999 年省水利科技进步奖壹等奖
5. 耿同谋, 刘秀才, 李欣欣, 等, “聚氨酯环氧浆材的研制及在水利上的应用”, 1998 年省水利科技进步奖叁等奖
6. 2002 年河南省青年骨干教师

研究项目

1. 耿同谋, 胡润亭, 范伟丽, 郝进宝, 等. “水工建筑密封胶的研究及在变形缝止水的应用,” 1996.1-1998.12 河南省水利厅科学项目.
2. 耿同谋, 刘秀才, 李欣欣, 等. “聚氨酯环氧浆材研究”, 1995.1-1997.12 河南省水利厅科学项目.
3. 刘汝山, 苏长明, 于培志, 吴文辉, ..., 耿同谋, 等. 中石化“十五”重大科技攻关项目, 新型结构聚合物研究及其在石油工业中的应用, P100043, 2003.
4. 郑红, 梁国明, 耿同谋, 等. 纳米 TiO₂的功能修饰及其在线富集分离痕量组分的研究应用, 重庆市自然科学基金计划项目, 项目编号: CSTC, 2008bb0201. 2008. 9-2011. 9.
5. 王瑜, 耿同谋, 董晓庆, 宋磊. 表面羟基化的碳羟基磷灰石在高氟水处理中的研究应用, 21307002, 国家自然科学基金项目, 国家自然科学基金委, 2014-01 至 2016-12.
6. 耿同谋, 等, “南水北调中线混凝土衬砌渠道伸缩缝止水结构及止水材料研究”, 2002 年河南省青年骨干教师资助计划资助项目, 2002 (225) .
7. 李贯良, 马淮玲, 杜美菊, 曹广秀, 耿同谋, 等. 大学化学探讨教学与 21 世纪创新人才培养的理论与实践研究, 2002 年河南省教育厅项目, 2004 年通过验收, 2004 (231) .

发表论文

- (1) Tongmou Geng*, Zongming Zhu, Weiyong Zhang, Yu Wang. A nitrogen-rich fluorescent conjugated microporous polymer with triazine and triphenylamine, units for highiodine capture and nitro aromatic compounds detection Journal of Materials Chemistry A, 2017, 5:7612–7617.
- (2) Tongmou Geng*, Zongming Zhu, Xie Wang, Hongyu Xia, Yu Wang, Dengkun Li. Poly{tris[4-(2-Thienyl)phenyl]amine} fluorescent conjugated microporous polymer for selectively sensing picric acid, Sensors and Actuators B, 2017, 244 : 334–343.

- (3) **Tong-Mou Geng***, Sai-Nan Ye, Yu Wang, Hai Zhu, Xie Wang, Xue Liu. Conjugated microporous polymers-based fluorescein for fluorescence detection of 2,4,6-trinitrophenol, *Talanta*, 2017, 165: 282–288.
- (4) **Tong-Mou Geng***, Wei-Yong Zhang, Deng-Kun Li, Hong-Yu Xia, Yu Wang, Zhu-Qing Wang, Zong-Ming Zhu, Qi Zheng. The chromogenic and fluorescent sensing properties for a water soluble polymeric chemosensor bearing rhodamine ethanediamine moieties with oxethyl (OCH_2CH_2) as a spacer, *Journal of Environmental Chemical Engineering*, 2017, 5: 906–914.
- (5) **Tong-Mou Geng***, Xie Wang, Feng Zhu, Hui Jiang, Yu Wang. Sensing of polymeric sensor-based rhodamine B derivative for metal cations in complete aqueous solution, *Bull. Mater. Sci.*, 2017, 40(1): 187–193.
- (6) **Tong-Mou Geng***, Deng-Kun Li, Zong-Ming Zhu, Ye-Bin Guan, Yu Wang. The synthesis and fluorescence detection properties of benzoquinonebased conjugated microporous/mesoporous polymers, *Microporous and Mesoporous Materials*, 2016, 231: 92-99.
- (7) **Geng Tong-Mou***, Zhu Hai, Song Wan, Zhu Feng, Wang Yu. Conjugate microporous polymer-based carbazole derivatives as fluorescence chemosensors for picronitric acid. *Journal of Materials Science*, 2016, 51(8): 4104-4114.
- (8) **Geng Tong-Mou***, Guo Cheng, Chang, Dong Yan-Jie, Chen Meng, Wang Yu. Turn-on fluorogenic and chromogenic detection of cations in complete water media with poly(N-vinyl pyrrolidone) bearing rhodamine B derivatives as polymeric chemosensor, *Polymers for Advanced Technologies*, 2016, 27(1): 90-97.
- (9) **Tong-Mou Geng***, Xie Wang, Hui Jiang, Wan Song, Ruo-Fan Ni, Yu Wang. Fluorescent Polyamide-Based Rhodamine Hydrazide Moieties with Oxethyl as Spacer for Detection of Cr^{3+} , Fe^{3+} , and Hg^{2+} Ions in Water. *Journal of Fluorescence*, 2016, 26:977–985.
- (10) **Geng Tong-Mou***, Wang Xie, Wang Zhu-Qing, Chen Tai-Jie, Zhu Hai, Wang Yu. Effects of single and double bonds in linkers on colorimetric and fluorescent sensing properties of polyvinyl alcohol grafting rhodamine hydrazides. *Journal of*

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- (11) **Geng Tong-Mou***, Wu Da-Yu, Huang Wei. Dual turn-on fluorescent chemosensor for Cu²⁺ and Hg²⁺ in aqueous medium based on a water-soluble polyacrylamide containing rhodamine. *Journal of Polymer Research*, 2015, 22(3): 40.
- (12) **Geng Tongmou***, Huang Rongyi, Wu Dayu. Water-soluble polymeric chemosensor for selective detection of Hg²⁺ in aqueous solution using rhodamine-based modified poly(acrylamide-acrylic acid). *Luminescence*, 2015, 3(8): 1263–1268.
- (13) **Geng Tongmou***, Huang Rongyi, Wu Dayu. Turn-on fluorogenic and chromogenic detection of Fe³⁺ and Cr³⁺ in a completely water medium with polyacrylamide covalently bonding to rhodamine B using diethylenetriamine as a linker. *RSC Advances*, 2014, 4(86): 46332-46339.
- (14) **Geng Tongmou***, Wang Yu, Huang Rong-Yi. Fluorescence sensors for selective detection of Hg²⁺ ion using a water-soluble poly(vinyl alcohol) bearing rhodamine B moiety. *Journal of Fluorescence*, 2014, 24(4): 1207-1213.
- (15) **Geng Tong-Mou***, Wu Da-Yu, Huang Wei, Huang Rong-Yi, Wu Gen-Hua. Fluorogenic detection of Hg²⁺, Cd²⁺, Fe²⁺, Pb²⁺ cations in aqueous media by means of an acrylamide-acrylic acid copolymer chemosensor with pendant rhodamine-based dyes. *Journal of Polymer Research*, 2014, 21(3): 354-361.
- (16) 耿同谋, 张霞. 疏水改性 pH 敏感水凝胶 P(HEMA-NaAA-DiAC(16))的制备及其溶胀性能, *应用化学*, 2014, 2: 140-146.
- (17) Zhang Yu-Feng, Huang Rong-Yi, Wang Jun-Wei, **Geng Tong-Mou**, Zhao Shun-Ping, Wu Gen-Hua. Experimental and computational investigation of intermolecular interactions in cyclopentanone with methanol mixture. *Chemical Physics Letters*, 2014, 612: 223-228.
- (18) Zhuqing Wang, Yaoge Huang, Min Wang, Genhua Wu, **Tongmou Geng**, Yingguo, Zhao, Aiguo Wu Macroporous calcium alginate aerogel as sorbent for Pb²⁺ removal from water media *Journal of Environmental Chemical Engineering* 2016, 4:3185-3192.

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