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材料与化学研究所



姓名: 毛江高
性别: 男
职称: 研究员
职务:
学历:
电话:
传真:
电子邮件: mjg@fjirsm.ac.cn
所属部门:
通讯地址:

简 历:

毛江高, 中国科学院赣江创新研究院博士生导师
2002年6月-至今, 中国科学院福建物质结构研究所研究员
1997年1月-2002年6月先后从事博士后研究工作
1996年2月- 1999年2月, 中国科学院福建物质结构研究所副研究员
1993年12月-1995年12月中国科学院福建物质结构研究所博士后
1993年10月中国科学院长春应用化学研究所研究生毕业, 获博士学位
1988年7月毕业于杭州大学化学系, 获学士学位

研究方向:

1. Inorganic solid state materials: Polar intermetallics, rare earths cluster materials.
2. Functional inorganic-organic hybrid materials: microporous and mesoporous materials, rare earths luminescence and pellicle materials.
3. Second-order nonlinear optical materials.

代表论著:

1. Jin Chen, Chun-Li Hu, Fei-Fei Mao, Jiang-He Feng, and Jiang-Gao Mao*, A Facile Route to Nonlinear Optical Materials: Three-Site Aliovalent Substitution Involving One Cation and Two Anions, *Angew. Chem. Int. Ed.* 2019, 58, 2098–2102.
2. Ru-Ling Tang, Chun-Li Hu, Bao-Lin Wu, Zhi Fang, Yan Chen, and Jiang-Gao Mao* Cs₂Bi₂O(Ge₂O₇) (CBGO): A Larger SHG Effect Induced by Synergistic Polarizations of BiO₅ Polyhedra and GeO₄ Tetrahedra, *Angew. Chem. Int. Ed.* 2019, 58, 15358–15361.

3. Jin Chen, Chun-Li Hu, Fei-Fei Mao, Bing-Ping Yang, Xiao-Han Zhang, and Jiang-Gao Mao*, REI5O14 (RE=Y and Gd): Promising SHG Materials Featuring the Semicircle-Shaped I5O14³⁻ Polyiodate Anion, *Angew. Chem. Int. Ed.* 2019, 58, 11666–11669.
4. Bao-Lin Wu, Chun-Li Hu, Fei-Fei Mao, Ru-Ling Tang, and Jiang-Gao Mao*, Highly Polarizable Hg²⁺ Induced a Strong Second Harmonic Generation Signal and Large Birefringence in LiHgPO₄, *J. Am. Chem. Soc.* 2019, 141, 10188-10192.
5. Fei-Fei Mao, Chun-Li Hu, Xiang Xu, Dong Yan, Bing-Ping Yang, and Jiang-Gao Mao* Bi(IO₃)F₂: The First Metal Iodate Fluoride with a Very Strong Second Harmonic Generation Effect, *Angew. Chem. Int. Ed.* 2017, 56, 2151–2155.
6. Ming-Li Liang, Chun-Li Hu, Fang Kong,* and Jiang-Gao Mao*. BiFSeO₃: An Excellent SHG Material Designed by Aliovalent Substitution. *J. Am. Chem. Soc.* 2016, 138, 9433-9436.
7. Jun-Ling Song, Chun-Li Hu, Xiang Xu, Fang Kong, and Jiang-Gao Mao*. A Facile Synthetic Route to a New SHG Material with Two Types of Parallel p-Conjugated Planar Triangular Units. *Angew. Chem. Int. Ed.* 2015, 54, 3679-3682.
8. Chuan-Fu Sun, Chun-Li Hu, Xiang Xu, Bing-Ping Yang, Jiang-Gao Mao*, Explorations of New Second-Order NLO Materials in the Potassium Vanadyl Iodate System, *J. Am. Chem. Soc.* 2011, 133, 5561-5573
9. Chuan-Fu Sun, Chun-Li Hu, Xiang Xu, Ji-Bei Ling, Ting Hu, Fang Kong, Xi-Fa Long and Jiang-Gao Mao*, BaNbO(IO₃)₅: A New Polar Material with a Very Large SHG Response. *J. Am. Chem. Soc.* 2009, 131, 9486-9487.

获奖及荣誉:

National Outstanding Scientific and Technological Workers (全国优秀科技工作者), 2014
Science and technology Awards of Fujian Province (first class).(福建省科学技术奖一等奖),
2008

National Science Fund for Distinguished Young Scholars(国家杰出青年科学基金), 2008
Editorial Board member for *J. Solid State Chem.* since 2007

Youth Chemistry Award of the Chinese Chemical Society, 1999



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京ICP备0500285号 京公网安备110402500047号

地址: 江西省赣州市赣县区科学院路1号

编辑部邮箱: ireweb@ire.ac.cn