



夏志国，1979年12月出生，材料科学与工程学院教授，曾荣获教育部新世纪优秀人才、北京市科技新星和北京市青年英才等称号。2002年在北京工商大学精细化工专业获学士学位，2005年在北京工商大学应用化学专业获硕士学位，2008年在清华大学化学专业获博士学位。目前主要从事无机稀土发光材料的晶体结构、性能与LED照明等领域的应用研究。至今以第一和/或通讯作者已发表国际SCI杂志论文110余篇，申报国家发明专利10余项。现为中国材料研究学会青年委员会理事、中国晶体学会会员，中国化学会会员。

【在研科研项目】

1. 国家自然科学基金面上基金，利用多面体模块构建新型荧光材料基质及其对发光性能的调控研究（51272242），2013年-2016年
2. 北京市自然科学基金面上基金，基于同构取代构建磷灰石结构新物相、合成及稀土掺杂发光性能研究（2132050），2013年-2015年
3. 教育部新世纪优秀人才支持计划项目，石榴石结构稀土发光材料研究（NCET-12-0950），2013年-2015年

【代表性学术论文】

1. **Zhiguo Xia**^{*}, Shihai Miao, Mingyue Chen, Maxim S. Molokeev, Quanlin Liu, Structure, crystallographic Sites and Tunable Luminescence Properties of Eu²⁺ and Ce³⁺/Li⁺-activated Ca_{1.65}Sr_{0.35}SiO₄ Phosphor, *Inorganic Chemistry*, 2015, 10.1021/acs.inorgchem.5b00455. (Cover Paper, Editor's Choice Paper)
2. Chengyin Liu, **Zhiguo Xia**^{*} Maxim Molokeev, Quanlin Liu, Near-Infrared Luminescence and Color Tunable Chromophores Based on Cr³⁺-Doped Mullite-Type Bi₂(Ga,Al)₄O₉ Solid Solutions, *Inorganic Chemistry*, 2015, 54, 1876-1882.
3. Shihai Miao, **Zhiguo Xia**^{*}, Maxim S. Molokeev, Mingyue Chen, Jie Zhang, Quanlin Liu, Effect of Al/Si Substitution on the Structure and Luminescence Properties of CaSrSiO₄:Ce³⁺ Phosphor: Analysis based on the Polyhedral Distortion, *Journal of Materials Chemistry C*, 2015, 3,4616-4622. (Cover Paper)
4. **Zhiguo Xia**^{*}, Maxim S. Molokeev, Aleksandr S. Oreshonkov, Victor V. Atuchin^{*}, Ru-Shi Liu, Cheng Dong, Crystal and Local Structure Refinement in Ca₂Al₃O₆F Explored by X-ray Diffraction and Raman Spectroscopy, *Physical Chemistry Chemistry Physics*, 2014, 16, 5952-5957. (Cover Paper)



Zhiguo Xia, the professor of School of Materials Sciences and Engineering, received his B.E. in Fine Chemical Engineering and M.E. in Applied Chemistry from Beijing Technology and Business University in 2002 and 2005, and his Ph.D. in Inorganic Chemistry from Tsinghua University in 2008. His recent research interest is involved in the design, synthesis and optical property investigation of the new inorganic phosphor materials. The application in white LEDs is also conducted in Xia's group. He has published more than 110 peer-reviewed SCI-indexed journals as the first author or corresponding author, and he has many connections with foreign scientists working in the similar fields.

【Publications】

1. **Zhiguo Xia**^{*}, Shihai Miao, Mingyue Chen, Maxim S. Molokeev, Quanlin Liu, Structure, crystallographic Sites and Tunable Luminescence Properties of Eu^{2+} and $\text{Ce}^{3+}/\text{Li}^{+}$ -activated $\text{Ca}_{1.65}\text{Sr}_{0.35}\text{SiO}_4$ Phosphor, *Inorganic Chemistry*, 2015, 10.1021/acs.inorgchem.5b00455. (Cover Paper, Editor's Choice Paper)
2. Chengyin Liu, **Zhiguo Xia**^{*} Maxim Molokeev, Quanlin Liu, Near-Infrared Luminescence and Color Tunable Chromophores Based on Cr^{3+} -Doped Mullite-Type $\text{Bi}_2(\text{Ga},\text{Al})_4\text{O}_9$ Solid Solutions, *Inorganic Chemistry*, 2015, 54, 1876-1882.
3. Shihai Miao, **Zhiguo Xia**^{*}, Maxim S. Molokeev, Mingyue Chen, Jie Zhang, Quanlin Liu, Effect of Al/Si Substitution on the Structure and Luminescence Properties of $\text{CaSrSiO}_4:\text{Ce}^{3+}$ Phosphor: Analysis based on the Polyhedral Distortion, *Journal of Materials Chemistry C*, 2015, 3,4616-4622. (Cover Paper)
4. **Zhiguo Xia**^{*}, Maxim S. Molokeev, Aleksandr S. Oreshonkov, Victor V. Atuchin^{*}, Ru-Shi Liu, Cheng Dong, Crystal and Local Structure Refinement in $\text{Ca}_2\text{Al}_3\text{O}_6\text{F}$ Explored by X-ray Diffraction and Raman Spectroscopy, *Physical Chemistry Chemistry Physics*, 2014, 16, 5952-5957. (Cover Paper)