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Authors: Ming Gu, Yue Tian, Cai'e Cui, Ping Huang, Lei Wang, Qiufeng Shi



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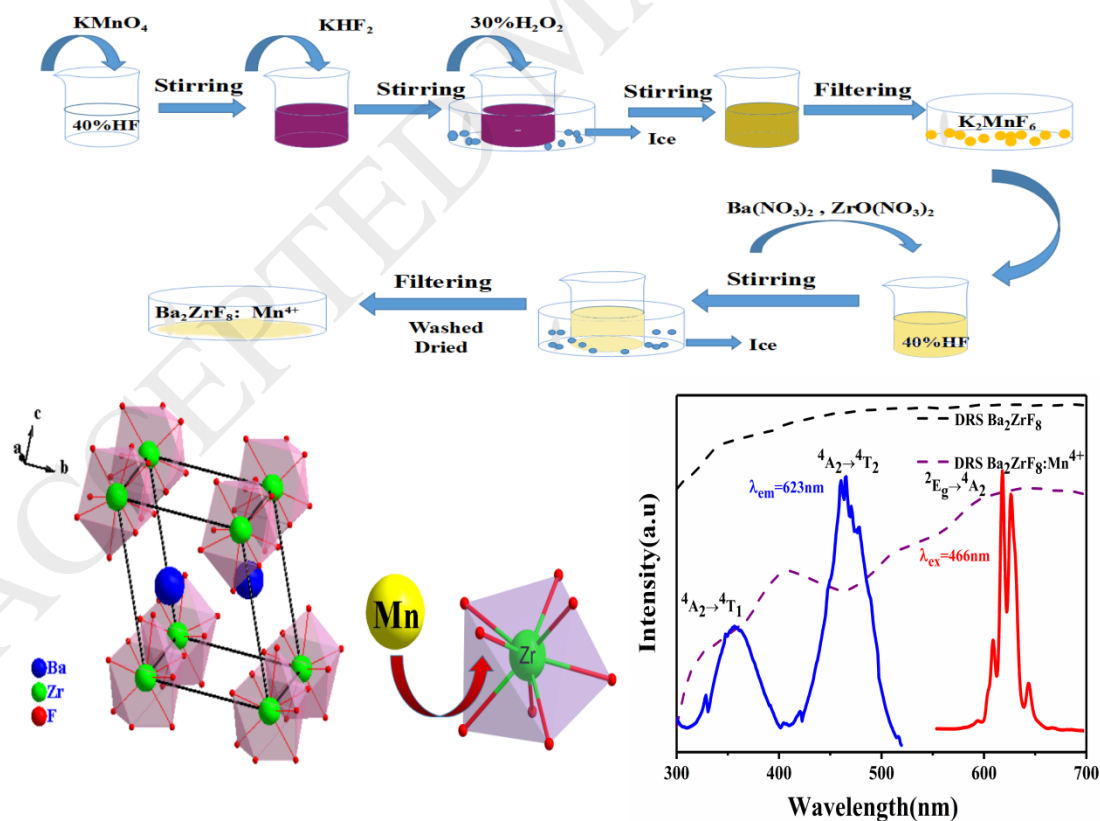
Ming Gu, Yue Tian*, Cai'e Cui, Ping Huang, Lei Wang, Qiufeng Shi

Key Laboratory of Advanced Transducers and Intelligent Control System of Ministry of Education, College of

Physics and Optoelectronics, Taiyuan University of Technology, 030024 Taiyuan, China

*Corresponding author: Yue Tian, Email: tianyue@tyut.edu.cn

Graphical abstract



The novel red-emitting $\text{Ba}_2\text{ZrF}_8:\text{Mn}^{4+}$ phosphor was prepared by two-step method at low

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