

Supporting Information

Barium fluoride hollow microcubes: hydrothermal synthesis and host for lanthanide near-infrared luminescent properties

Suying Hou,^a Yan Xing*,^a Xianchun Liu,^a Yongcun Zou,^b Bo Liu,^a Xiujuan Sun

^aCollege of Chemistry, Northeast Normal University, Changchun 130024, P R China.
E-mail: xingyan69cn@yahoo.com.cn

^bState Key Laboratory of Inorganic Synthesis and Preparative Chemistry of Jilin University, Changchun 130012, P. R. China

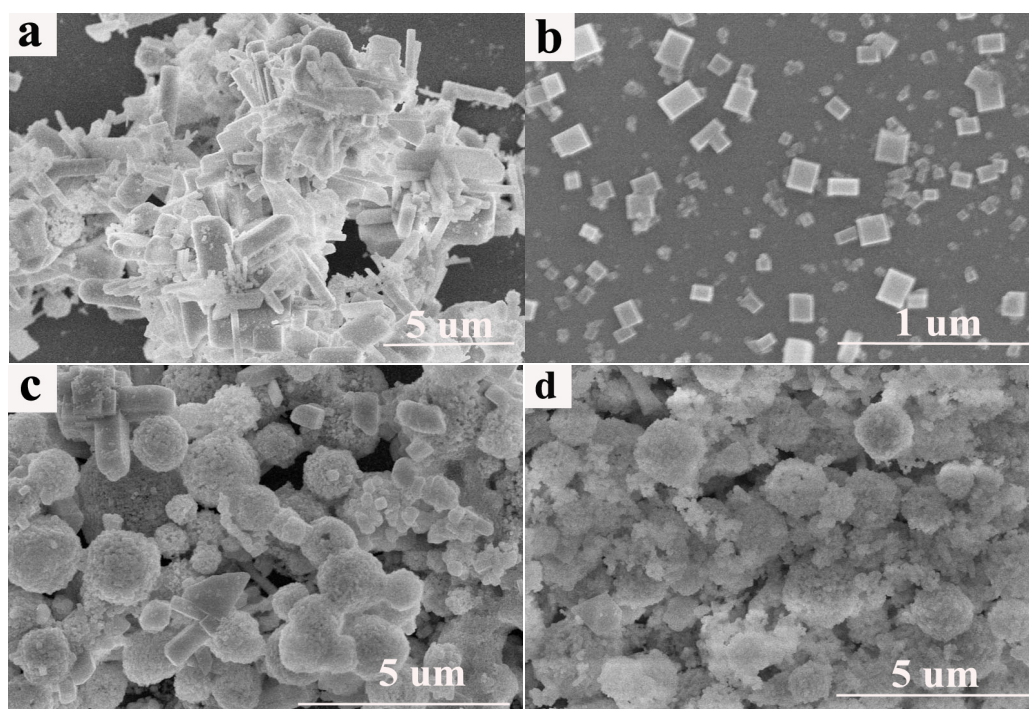


Fig. S1 SEM images of the as-prepared BaF₂ samples (a) in the absence of P123 and with different additives (b) CTAB (c) PVP and (d) PEG-4000.

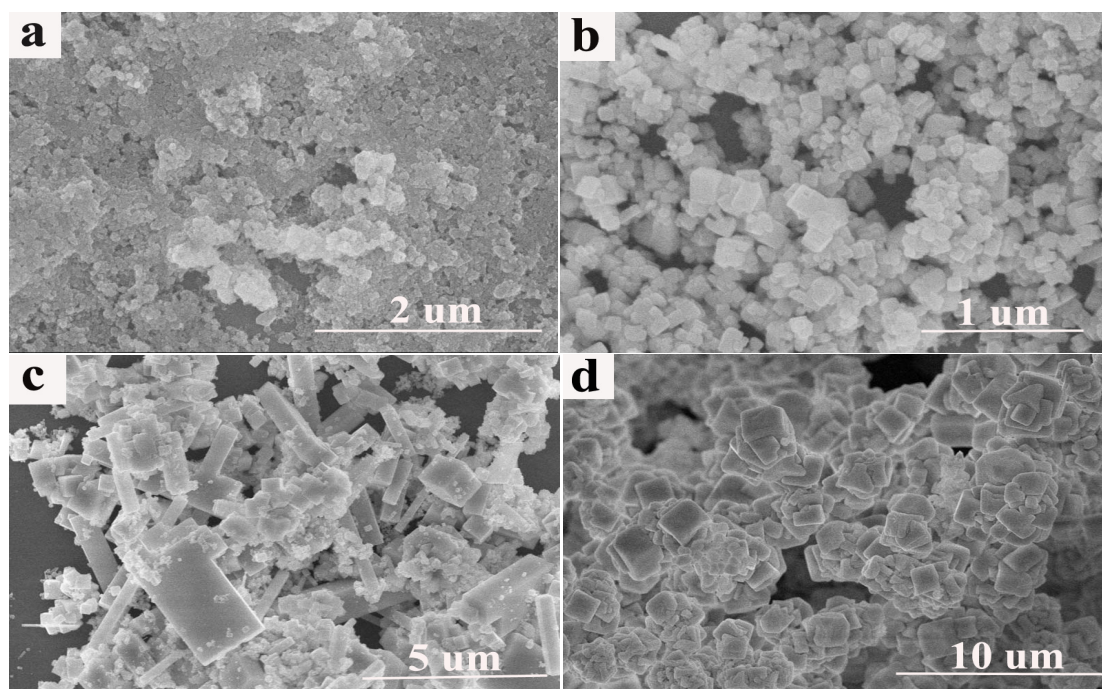


Fig. S2 SEM image of the as-prepared BaF₂ samples in the absence of Cit³⁻ under otherwise same reaction conditions (a) and SEM images of the samples obtained from different fluoride sources (b)NaF, (c) NH₄F and (d) HF.

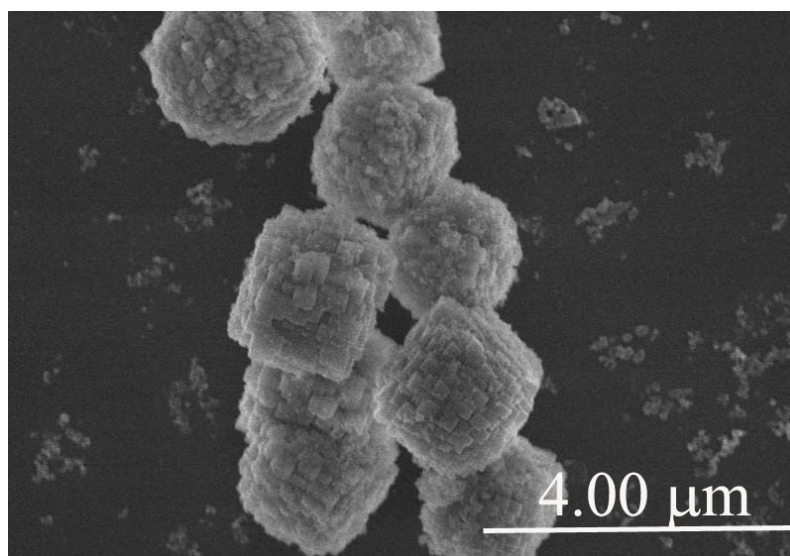


Fig. S3 SEM image of the as-prepared Nd³⁺-doped BaF₂ samples.