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**Surface agglomeration is beneficial for release of magnetic property  
via research of rare earth (RE) element-substitution**

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**Graphical abstract**

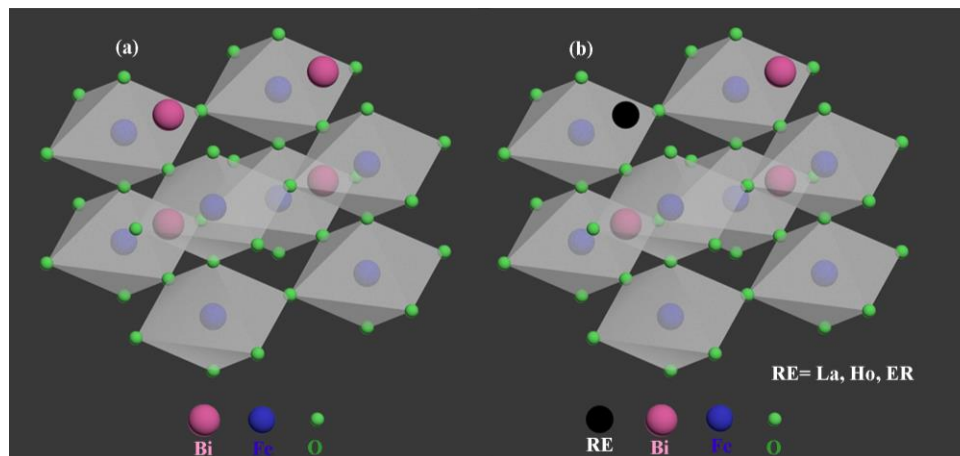


Fig. 1 The simulative images of ions space matching of (a) BFO and RE-subatitution samples.

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