## Influence of rare earth doping on the structural and electromagnetic properties of $SmFeAsO_{0.7}F_{0.3}$ iron pnictide

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Figure S1: XRD patterns of (a) Gd doped and (b) Ce doped samples.



Figure S2: EDAX spectra of the samples (a) SmGd1 (Sm<sub>0.9</sub>Gd<sub>0.1</sub>FeAsO<sub>0.7</sub>F<sub>0.3</sub>) and (b) SmCe1  $(Sm_{0.9}Ce_{0.1}FeAsO_{0.7}F_{0.3})$ .



Figure S3: SEM images of Sm3 (SmFeAsO<sub>0.7</sub>F<sub>0.3</sub>) and selected samples from both Gd<sup>3+</sup> and Ce<sup>3+</sup> doped ones.