

### Supporting Information

Table S1 Ionic radii (Å) of La<sup>3+</sup>, Ce<sup>3+</sup>, Tb<sup>3+</sup> for the given coordination number (CN)

Ions	Ionic radii(Å)	
	6	8
La <sup>3+</sup>	1.03	1.16
Ce <sup>3+</sup>	1.01	1.14
Tb <sup>3+</sup>	0.92	1.04

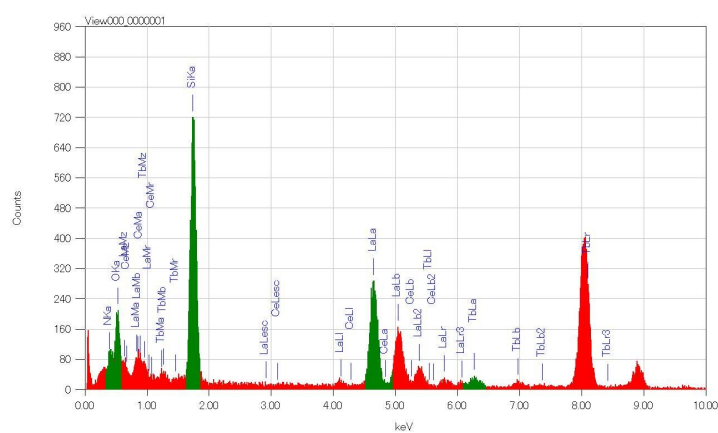


Fig. S1 EDS spectrum of La<sub>3</sub>Si<sub>8</sub>N<sub>11</sub>O<sub>4</sub>:0.01Ce,0.2Tb