

Fig. S1 TEM image of a  $\text{Sr}_3\text{NaSbO}_6:0.002\text{Bi}$  particle.

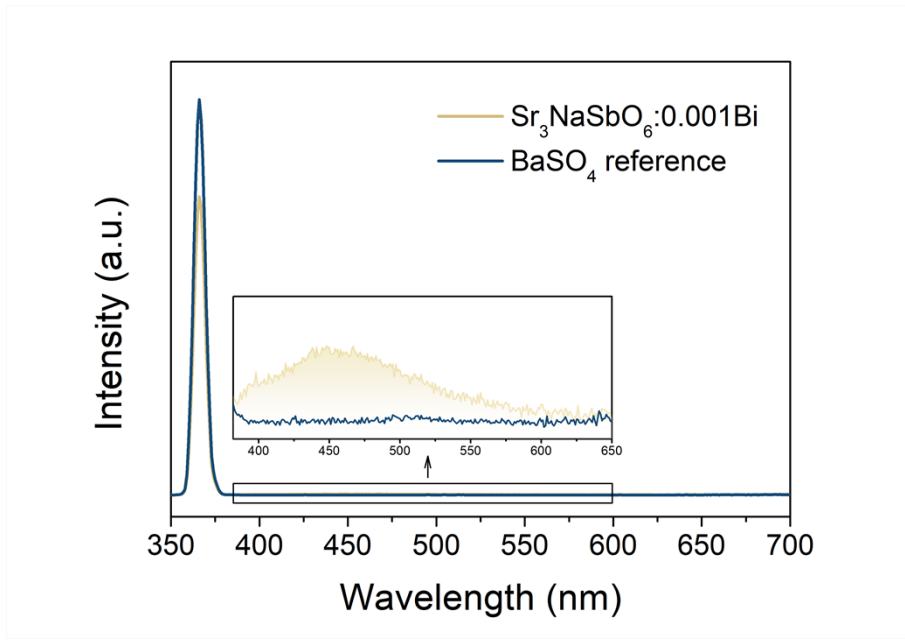


Fig. S2 Excitation line of BaSO<sub>4</sub> and emission spectrum of Sr<sub>3</sub>NaSbO<sub>6</sub>:0.001Bi.

Table S1 The bond distance and bond energy parameters of the central atom in Sr<sub>3</sub>NaSbO<sub>6</sub> with Bi ions in the Sr and Na positions. The unit of bond energy is kcal·mol<sup>-1</sup>.

Central atom	Coordination atom	d / Å	E <sub>M-O</sub>	E <sub>Bi-O</sub>	ΔE <sub>Bi</sub>
Sr	O1	2.8804	8.25	5.50	/
	O2	2.6189	16.73	11.15	/
	O3	2.6205	16.65	11.10	/
	O4	2.8804	8.25	5.50	/
	O5	2.5223	21.71	14.48	/
	O6	2.5223	21.71	14.48	/
	O7	2.6205	16.65	11.10	/
	O8	2.6190	16.72	11.15	/
Average	/	/	15.83	10.56	5.27
Na	O1	2.3951	21.50	10.21	/
	O2	2.3951	21.50	10.21	/
	O3	2.3951	21.50	10.21	/
	O4	2.3951	21.50	10.21	/
	O5	2.3951	21.50	10.21	/
	O6	2.3951	21.50	10.21	/
Average	/	/	21.50	10.21	11.29

Table S2 The CIE coordinates of Sr<sub>3</sub>NaSbO<sub>6</sub>:0.001Bi at different operating temperatures (λ<sub>ex</sub> = 349 nm).

	x	y
298	0.1749	0.1391
323	0.1757	0.1454
348	0.1764	0.1475
373	0.1771	0.1506
398	0.1789	0.1561
423	0.1804	0.1597
448	0.1828	0.1649
473	0.1866	0.1724
498	0.1908	0.1793
523	0.1950	0.1855
548	0.1981	0.1905
573	0.1999	0.1938