

Supporting Information

Efficient sky-blue radioluminescence of microcrystalline Cs₃Cu₂I₅ based large-scale eco-friendly composite scintillators for high-sensitive ionizing radiation detection

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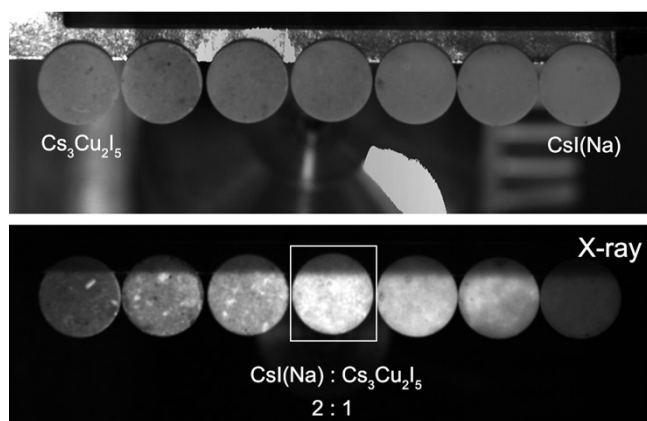


Fig. S1. Ultraviolet-enhanced photos of fluorescent flakes prepared in different mixing ratios of $\text{CsI}(\text{Na})$ and $\text{Cs}_3\text{Cu}_2\text{I}_5$ when X-rays are turned off (top) and on (bottom).

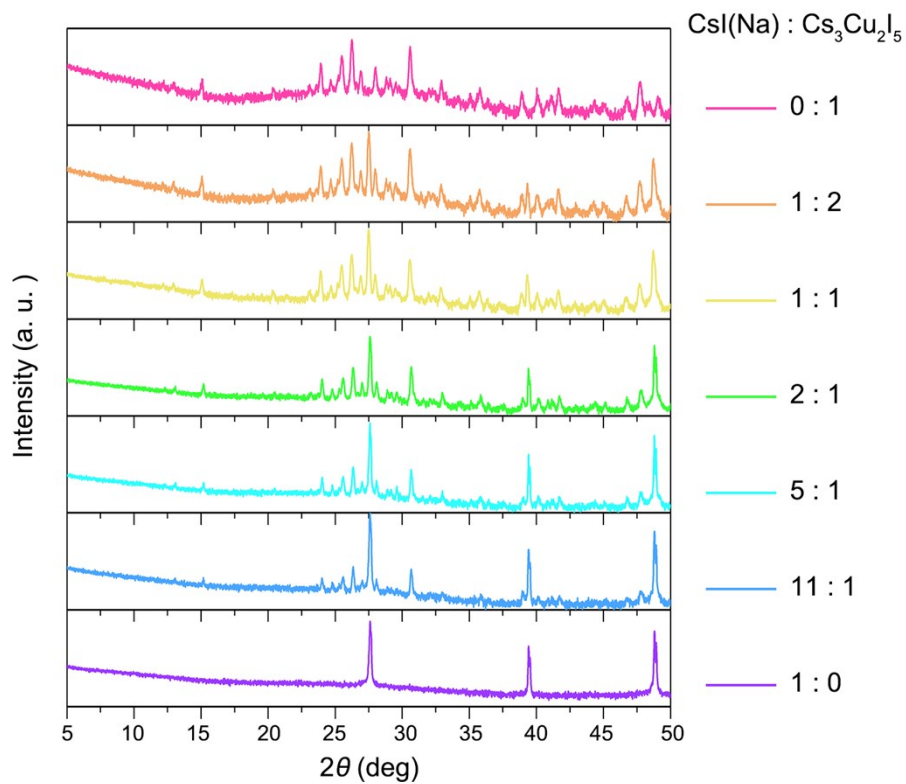


Fig. S2. XRD spectra of fluorescent flakes prepared in different mixing ratios of CsI(Na) and Cs₃Cu₂I₅.

Table S1. A comparison between the composite scintillator obtained in this work and commercial CsI:Na and CsI:Tl single crystals in the aspects of RL intensity and light yield. .

	This work CsI:Na+Cs ₃ Cu ₂ I ₅ presser	CsI:Na presser	Commercial CsI:Na crystal	Commercial CsI:Tl crystal
RL intensity (Counts)	3651	637	1520	3430
Light yield (photon MeV ⁻¹)	57.5k	10.0k	24.0k	54.0k