

Electronic Supplementary Information (ESI)

Emission spectroscopy of a ruthenium(II) polypyridyl complex adsorbed on calcium niobate lamellar solids and nanosheets

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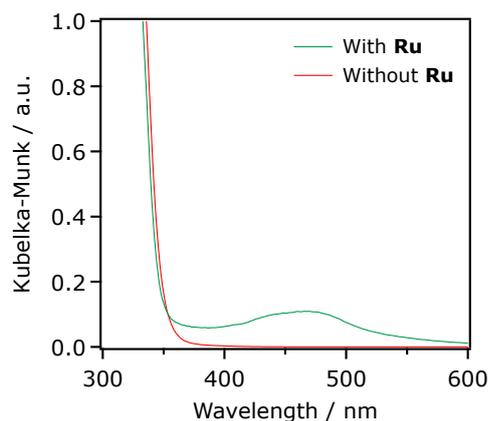


Fig. S1. UV-visible diffuse reflectance spectra of $\text{HCa}_2\text{Nb}_3\text{O}_{10}$ nanosheets prepared by the SSR method with and without modification with **Ru** ($2.0 \mu\text{mol g}^{-1}$).

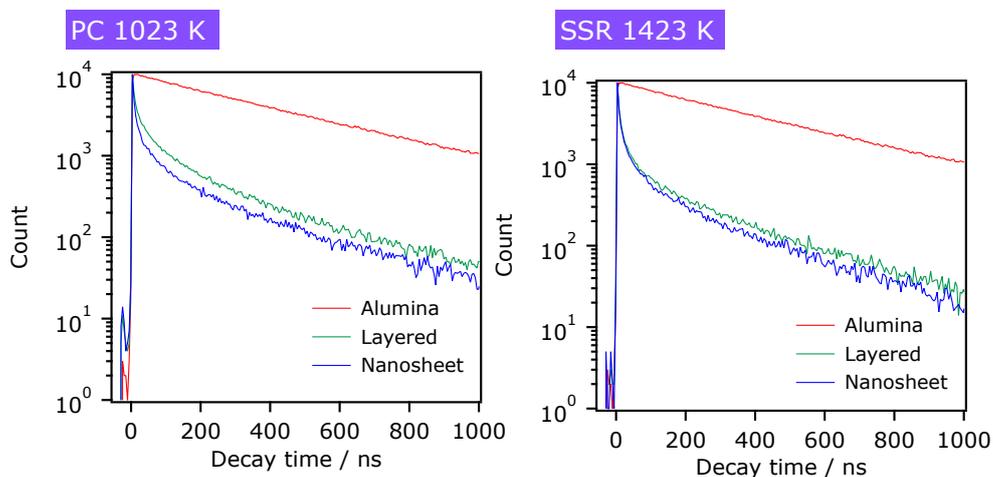


Fig. S2. Emission decay curves of **Ru** on layered $\text{HCa}_2\text{Nb}_3\text{O}_{10}$ and $\text{HCa}_2\text{Nb}_3\text{O}_{10}$ nanosheets prepared by the PC and SSR methods. Excited at 444 nm and monitored at 630 nm, along with that of **Ru**/ Al_2O_3 for reference. For each sample, the measurement was repeated until the signal count just after the photoexcitation (at $t = 0$) reached 10^4 .

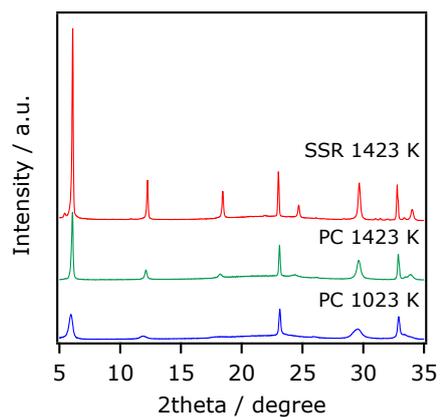


Fig. S3. XRD patterns of the as-prepared lamellar $\text{HCa}_2\text{Nb}_3\text{O}_{10}$ solids prepared by different methods.

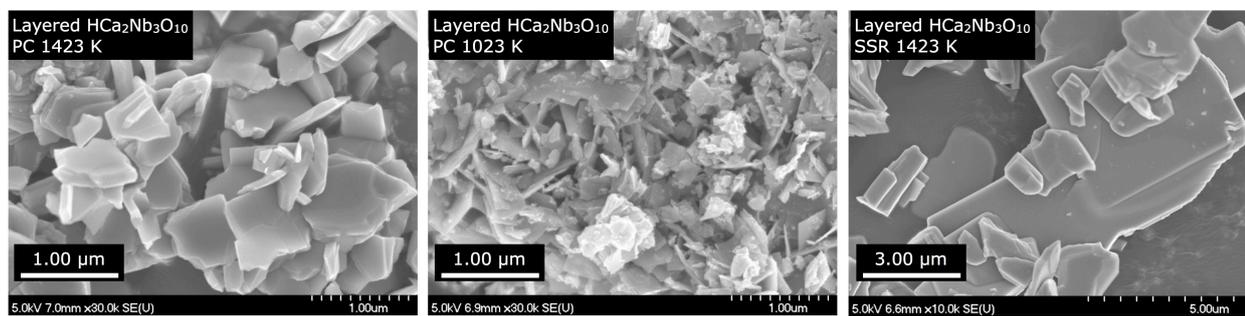


Fig. S4. SEM images of the as-prepared lamellar $\text{HCa}_2\text{Nb}_3\text{O}_{10}$ solids prepared by different methods.