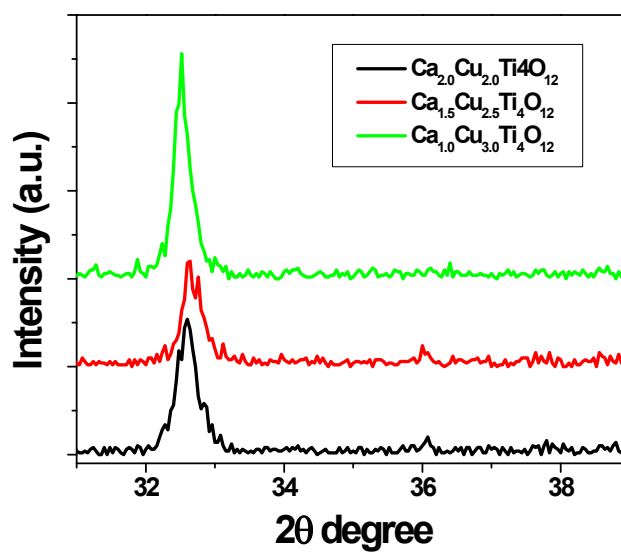


## Tuning optical and dielectric properties of calcium copper titanate $\text{Ca}_x\text{Cu}_{3-x}\text{Ti}_4\text{O}_{12}$ nanopowders

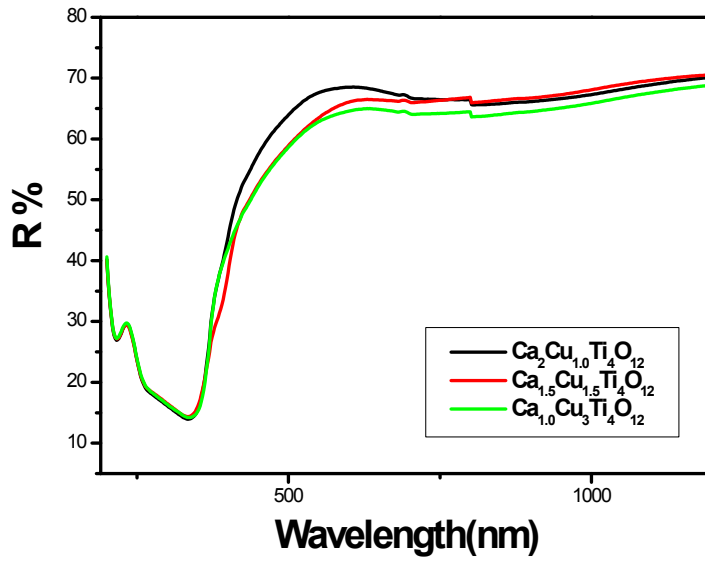
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### S11. XRD patterns of CCTO nanopowders



**Fig. S1** XRD patterns of CCTO nanopowders with different  $\text{Ca}^{2+}$  ion content 1.0, 1.5, and 2.0

**SI2. Optical properties of CCTO nanopowders**



**Fig. SI2** UV-visible reflectance spectrum (R%) of  $(\text{Ca}_x\text{Cu}_{3-x}\text{Ti}_4\text{O}_{12})$  nanopowders