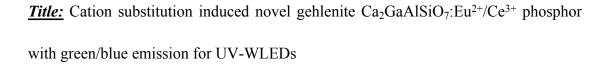
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Supplementary Information



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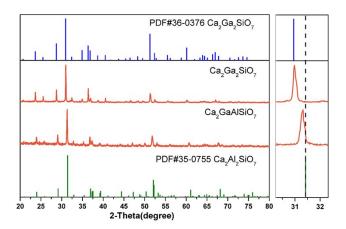


Figure S1. XRD patterns of prepared Ca₂GaAlSiO₇ and Ca₂Ga₂SiO₇ samples together with the standard data (PDF#35-0755, 36-0376) for reference.

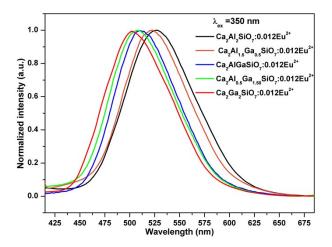


Figure S2. Emission spectra of Ca₂(Al,Ga)₂SiO₇:0.012Eu²⁺ samples with different ratio of Al/Ga.

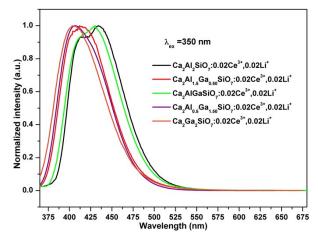


Figure S3. Emission spectra of Ca₂(Al,Ga)₂SiO₇:0.02Ce³⁺,0.02Li⁺ samples with different Al/Ga ratio.