

Supplementary Information for

A full-spectrum color converter based on tricolor phosphor-in-glass film for laser-driven white lighting

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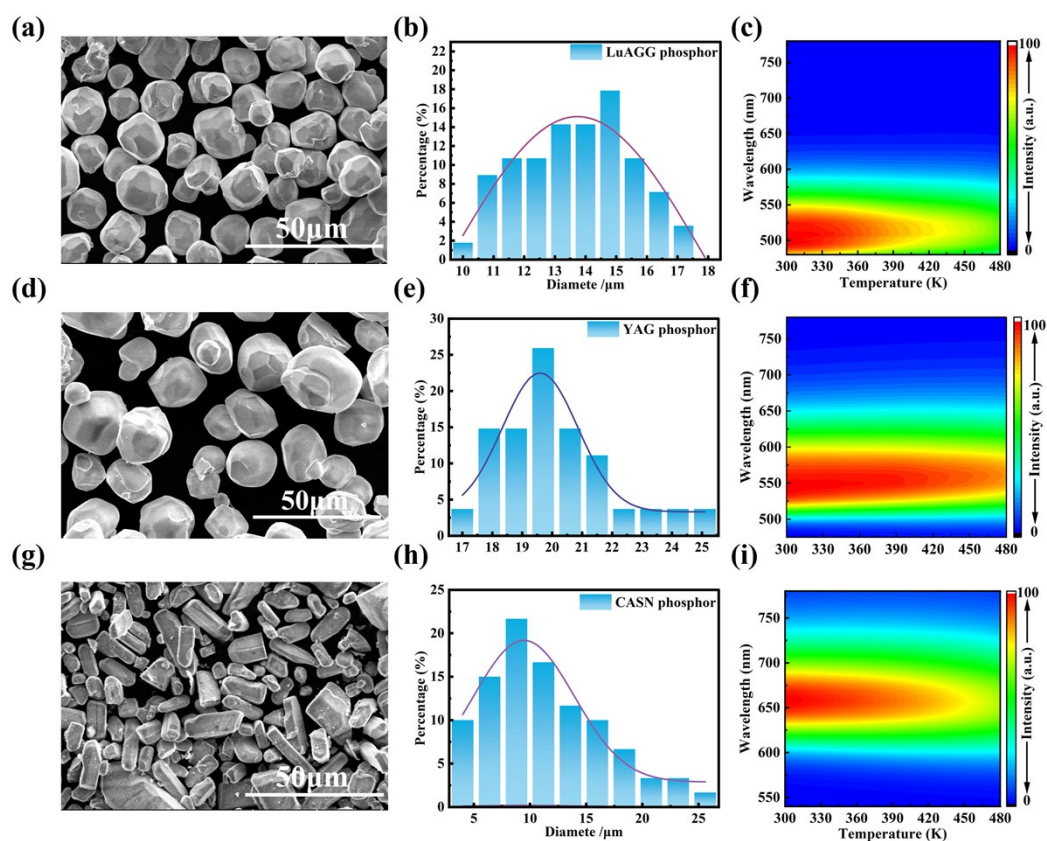


Figure S1. a) SEM image, b) particle size distribution and c) temperature-dependent PL spectra of LuAGG phosphor. d) SEM image, e) particle size distribution and f) temperature-dependent PL spectra of YAG phosphor. g) SEM image, h) particle size distribution and i) temperature-dependent PL spectra of CASN phosphor.

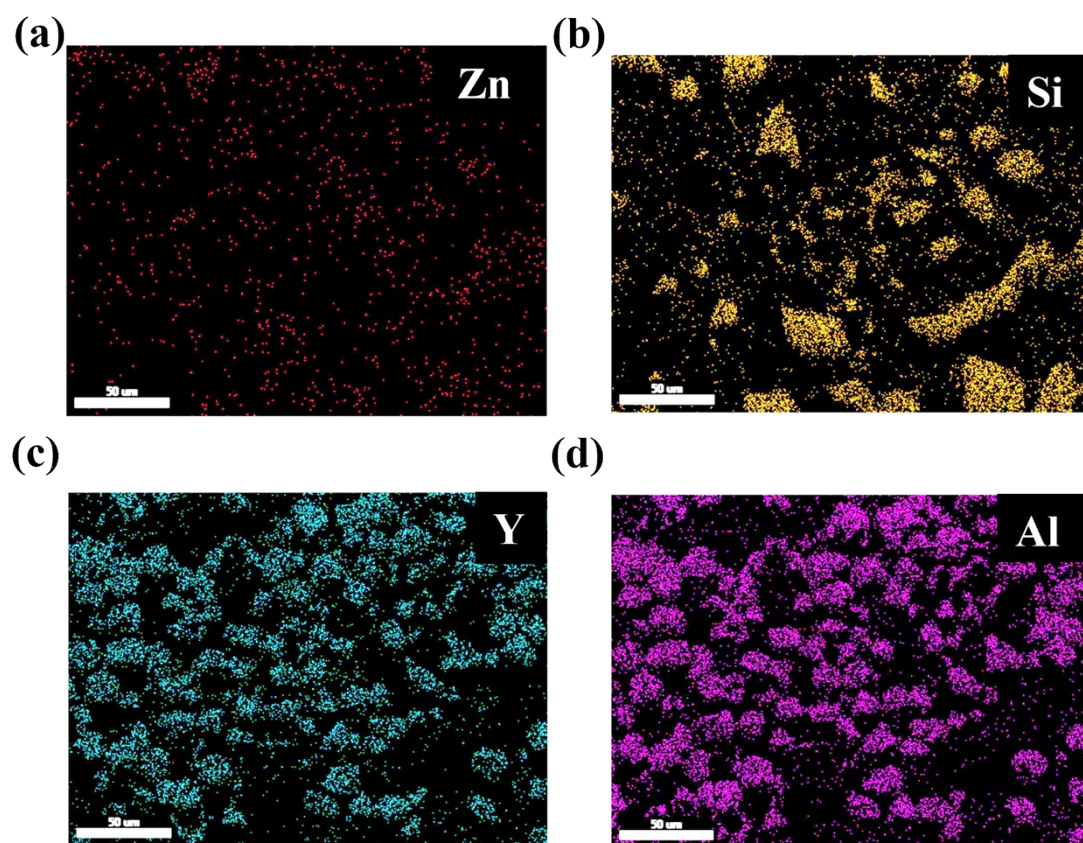


Figure S2. a-d) EDS mapping of Zn, Si, Y, Al.

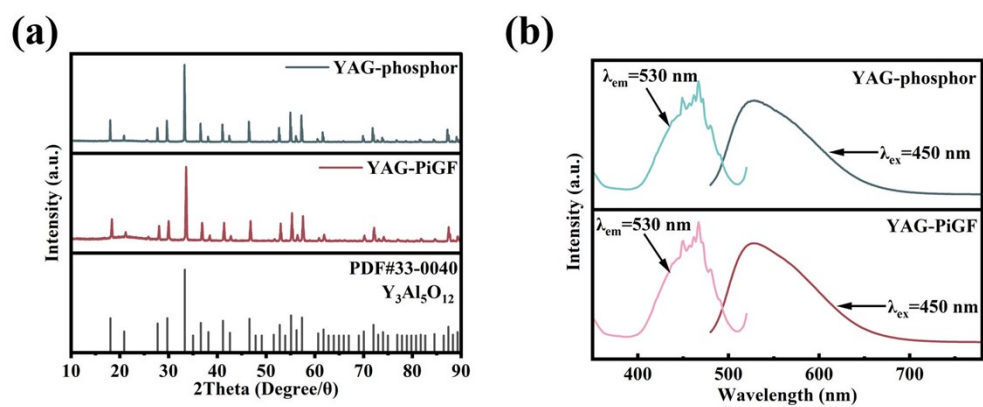


Figure.S3 a) XRD pattern and b) excitation and emission of YAG phosphor and YAG-PiGF.

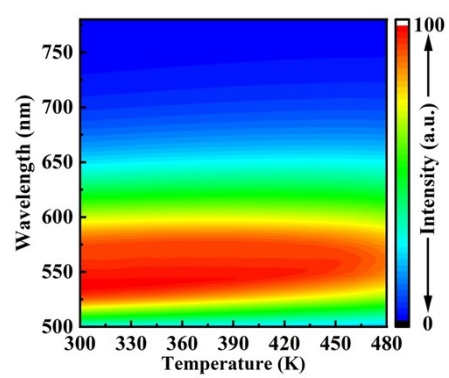


Figure S4. Temperature-dependent PL spectra of YAG-PiGF.

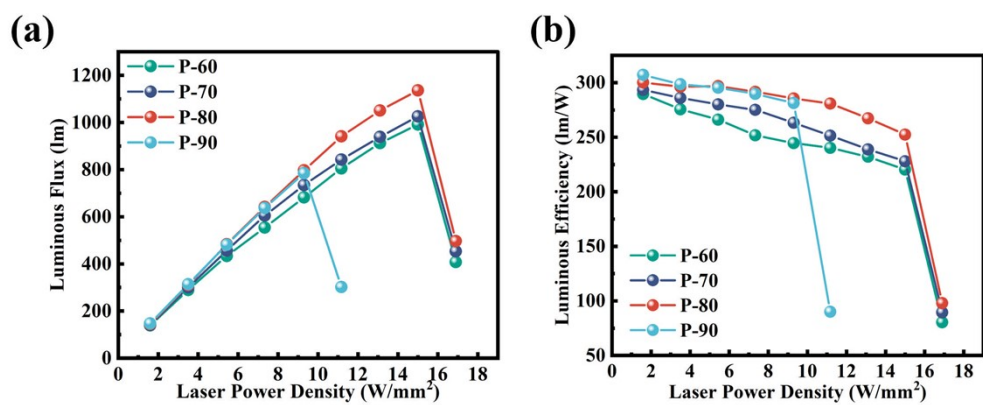


Figure S5. a) Luminous flux and b) luminous efficiency of P-60, P-70, P-80 and P-90 samples.

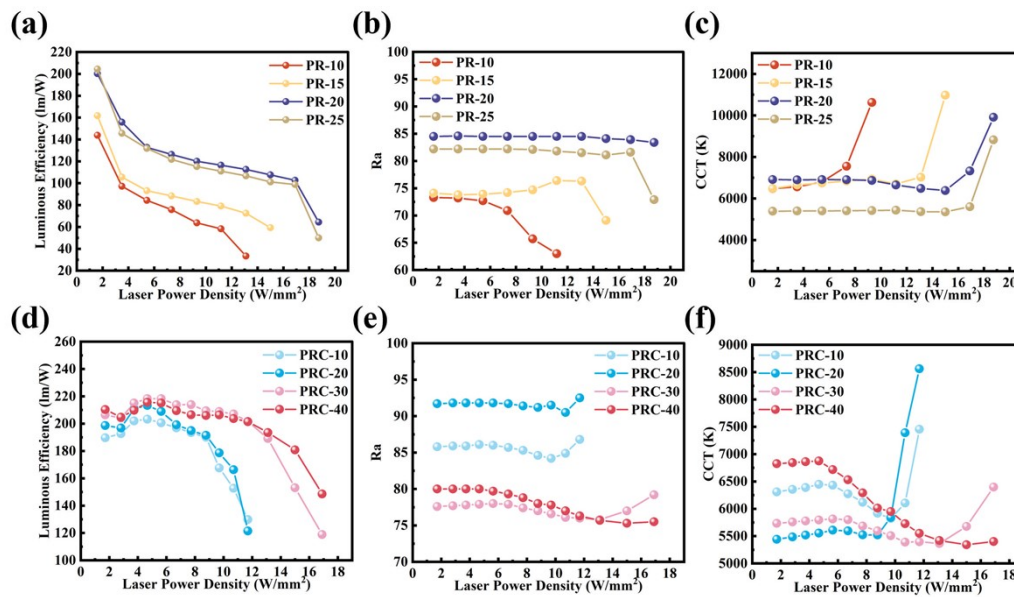


Figure S6. a) Luminous efficiency, b) Ra and c) CCT of PR-10, PR-15, PR-20 and PR-25 samples. d) Luminous efficiency, e) Ra and f) CCT of PRC-10, PRC-20, PRC-30 and PRC-40 samples.