

Supporting Information

Growth, spectral and laser properties of Yb-doped strontium yttrium phosphate crystal with a disordered structure

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Figure S1. Schematic of laser experimental configuration.

Table S1. Structure parameters of the Yb:YSP crystal obtained from the Rietveld data.

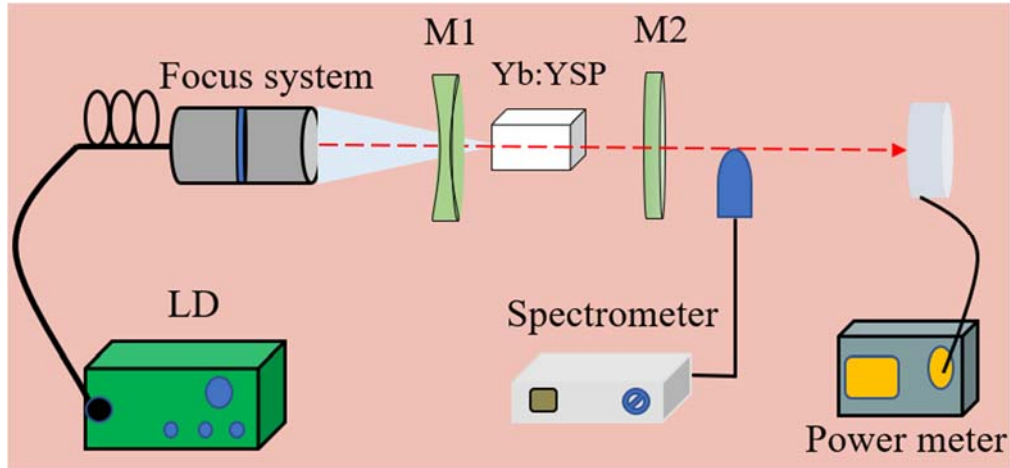


Figure S1. Schematic of laser experimental configuration.

Table S1. Structure parameters of the Yb:YSP crystal obtained from the Rietveld data.

Atoms	Site	x	y	z	Occupancy
Yb	16c	0.93606	0.56394	0.43606	0.005
Y	16c	0.93606	0.56394	0.43606	0.078
Sr	16c	0.93606	0.56394	0.43606	0.250
P	12a	0.87500	0.50000	0.75000	0.250
O1	48e	0.94575	0.39747	0.69445	0.650
O2	48e	0.98904	0.31314	0.78806	0.350

Lattice parameters: $a = b = c = 10.0809 \text{ \AA}$; $\alpha = \beta = \gamma = 90^\circ$
Volume = 1024.467 \AA^3 ; space group: $I-43d$ (No.220)
R factor: $R_p = 0.921\%$, $R_{wp} = 1.42\%$