

**Supporting Information**

**PbWO<sub>4</sub> nanofibers for shielding gamma radiations: crystal growth,  
morphology and performance evaluation**

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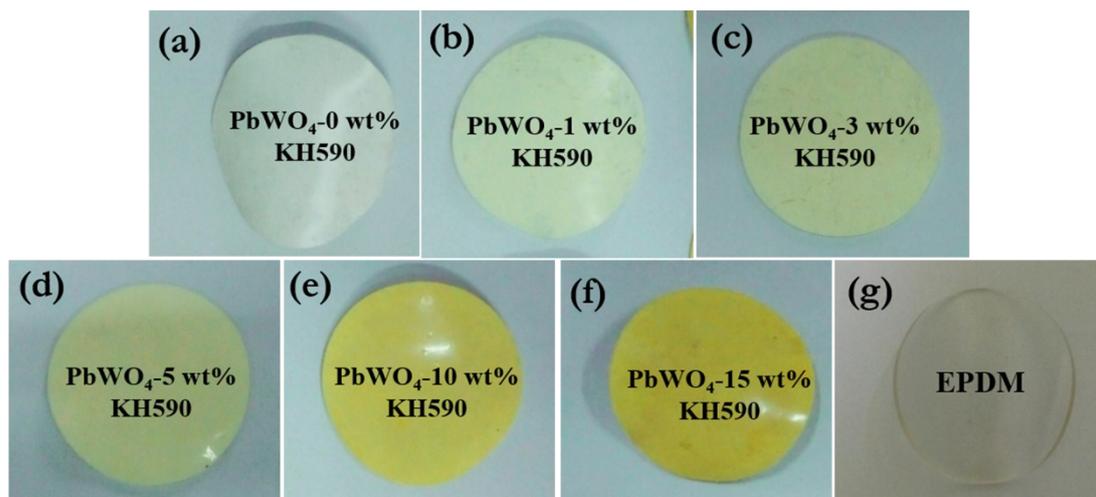
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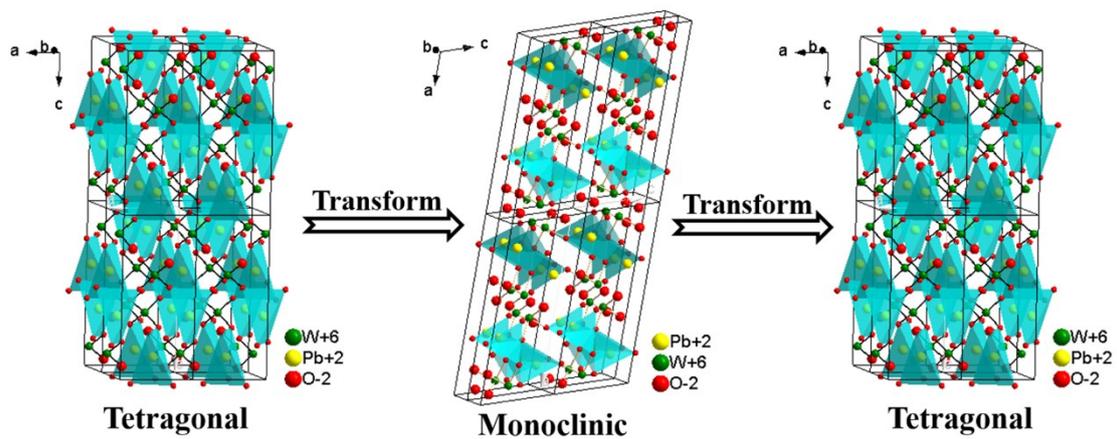
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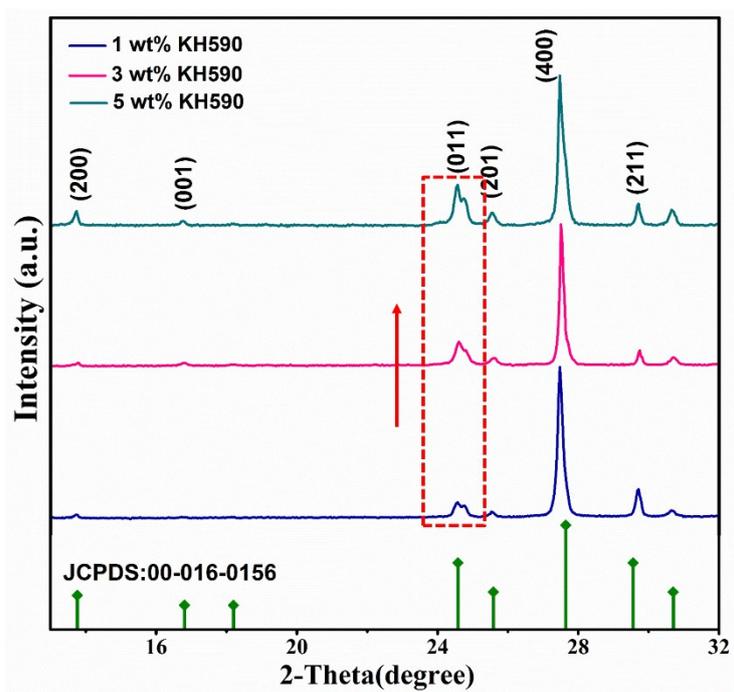
- **Fig. S1.** Samples are prepared with different morphologies PbWO<sub>4</sub> and EPDM, (a)-(g) and pure EPDM, (h).
- **Fig. S2.** Transformation between crystal structure of tetragonal and monoclinic PbWO<sub>4</sub>.
- **Fig. S3.** Enlargement version of XRD patterns of PbWO<sub>4</sub> samples with different doses of KH590: 1 wt%, 3 wt%, 5 wt%.
- **Fig. S4.** Mass production of monoclinic PbWO<sub>4</sub> nanofibers.
- **Fig. S5.** Full XPS spectra of PbWO<sub>4</sub> nanofibers.
- **Table S1.** Atomic ratios of the PbWO<sub>4</sub> nanofibers based on the XPS measurements.



**Fig. S1.** Samples are prepared with different morphologies  $\text{PbWO}_4$  and EPDM, (a)-(g) and pure EPDM, (h).

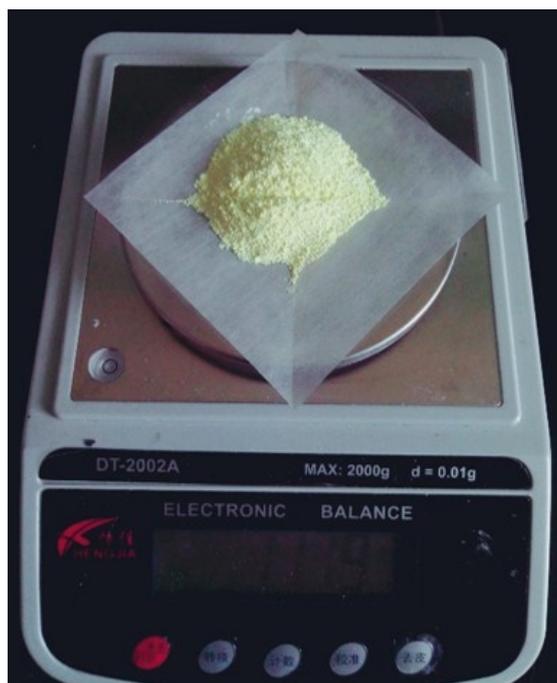


**Fig. S2.** Crystal structure transformation between tetragonal and monoclinic  $\text{PbWO}_4$ .



**Fig. S3.** Enlargement version of XRD patterns of  $\text{PbWO}_4$  samples with different doses of KH590:

1 wt%, 3 wt%, 5 wt%.



**Fig. S4.** Mass production of monoclinic  $\text{PbWO}_4$  nanofibers.

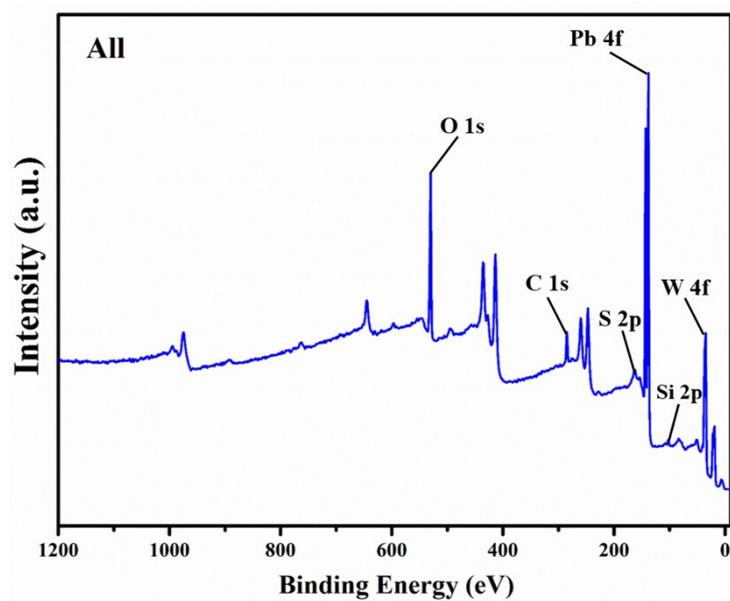


Fig. S5. Full XPS spectra of PbWO<sub>4</sub> nanofibers.

**Table S1.** Atomic ratios of the PbWO<sub>4</sub> nanofibers based on the XPS measurements

	Atomic (%) nanofibers		
	Pb	W	O
XPS	15.51	14.83	60.28