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Supplementary Materials

Enhanced Thermoelectric Performance of β-Ag_2Se/RGO Composites Synthesized by Cold Sintering Process for Ambient Energy Harvesting

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Table S1. The crystal structural parameters of Ag_2Se and Ag_2Se/RGO composites, determined by Rietveld refinement of the XRD patterns.

Sample	a (Å)	b (Å)	c (Å)	2θ	FWHM	Size (nm)
Ag_2Se-powder	4.33	7.06	7.76	33.517	0.173	50.11
Ag_2Se	4.34	7.07	7.77	33.445	0.211	41.02
Ag_2Se-0.25%	4.34	7.07	7.77	33.448	0.207	41.83
Ag_2Se-0.5%	4.34	7.07	7.77	33.439	0.201	43.12
Ag_2Se-0.75%	4.34	7.07	7.77	33.447	0.189	45.82
Ag_2Se-1%	4.34	7.07	7.77	33.432	0.166	52.29

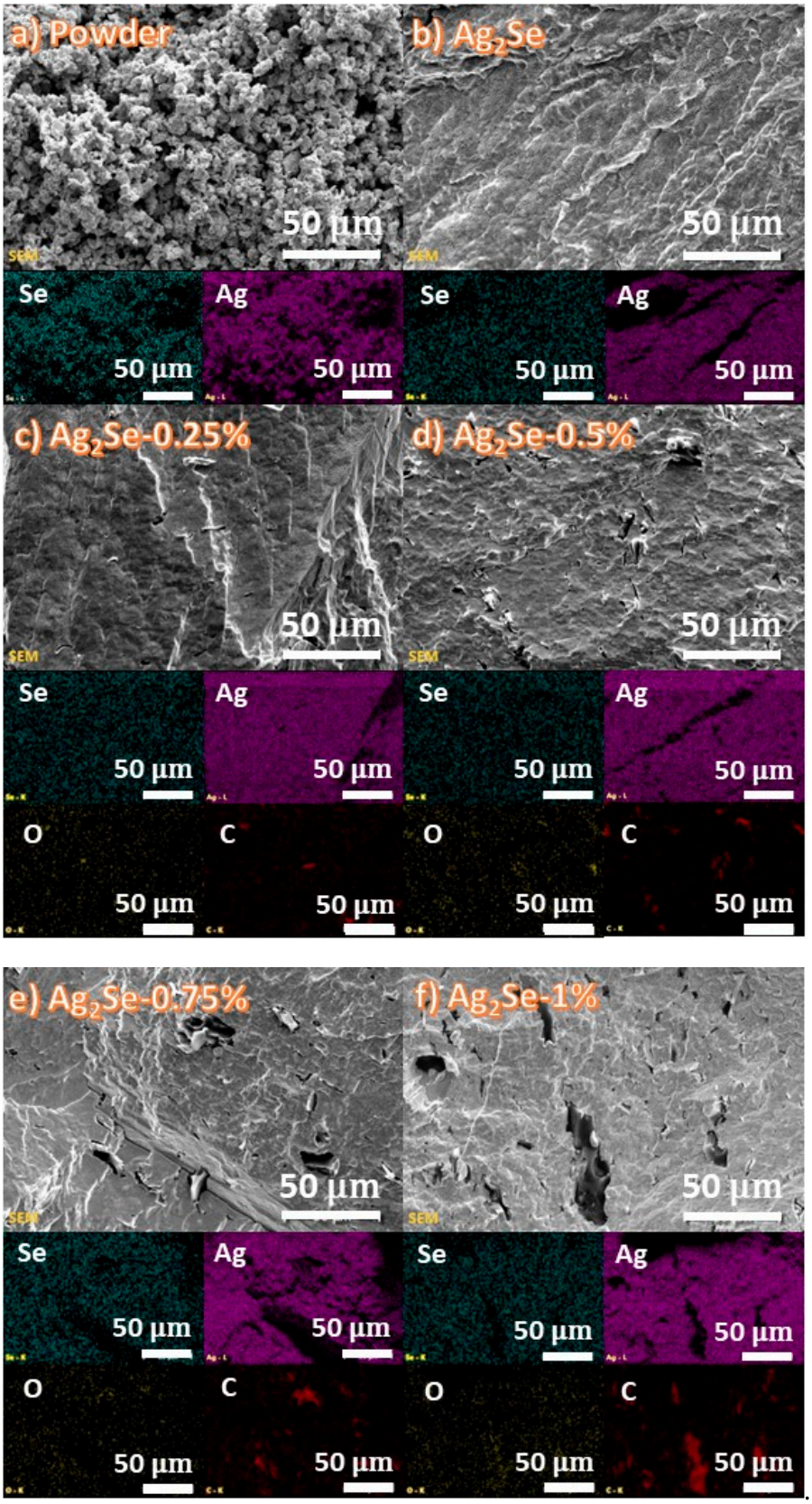


Figure S1. SEM images with corresponding EDS mapping for **a)** Ag_2Se powder, **b)** pristine Ag_2Se sample, **c)–f)** Ag_2Se composites with 0.25–1.0 wt.% RGO.

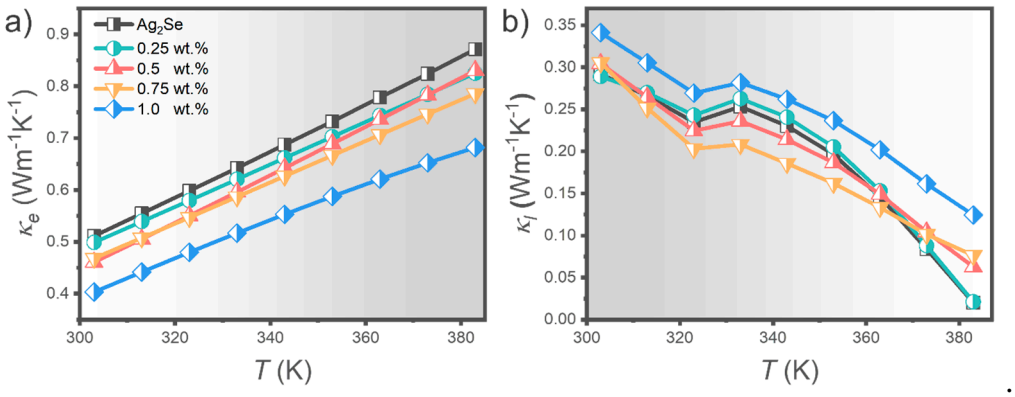


Figure S2. a) electronic thermal conductivity (κ_e) and **b)** lattice thermal conductivity (κ_l) of pristine Ag_2Se and Ag_2Se/RGO composite samples.