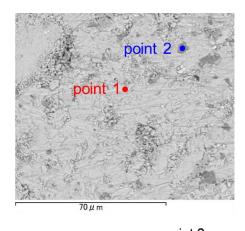


Fig. S1 (a), (b) Thermal conductivity of $Sr_2MnCu_2Te_2O_2$ and $Sr_2CoCu_2Te_2O_2$, respectively. Black square and red circle corresponds to the raw data and its polynomial fit result, respectively.



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Element	Atomic %	ratio
Oxygen	36.56%	3.95
Cobalt	9.26%	1.00
Copper	18.07%	1.95
Strontium	17.95%	1.94
Tellurium	18.16%	1.96

Fig. S2 SEM image and measured compositions by EDX for Sr₂CoCu₂Te₂O₂