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2017

Tuning of Catalytic Activity by Thermoelectric Materials for Carbon Dioxide Hydrogenation.

. *Advanced Energy Materials* vol. 8, (5). Wiley.

Sintering trials of analogues of americium oxides for radioisotope power systems.

. *Journal of Nuclear Materials* vol. 491, 18-30. Elsevier Bv.

The impact of lone-pair electrons on the lattice thermal conductivity of the thermoelectric compound CuSbS₂.

. *Journal of Materials Chemistry A* vol. 5, (7) 3249-3259. Royal Society of Chemistry (Rsc).

Screening for CuS based thermoelectric materials using crystal structure features.

. *Journal of Materials Chemistry A* vol. 5, (10) 5013-5019. Royal Society of Chemistry (Rsc).

2016

Theory-Guided Synthesis of an Eco-Friendly and Low-Cost Copper Based Sulfide Thermoelectric Material.

. *The Journal of Physical Chemistry C* vol. 120, (48) 27135-27140. American Chemical Society (Acs).

Efficacy of lone-pair electrons to engender ultralow thermal conductivity.

. *Scripta Materialia* vol. 111, 49-53.

2015

Comprehensive study of tellurium based glass ceramics for thermoelectric application.

. *Advances in Applied Ceramics* vol. 114, (sup1) S42-S47. Sage Publications.

Spark plasma sintered bismuth telluride-based thermoelectric materials incorporating dispersed boron carbide.

. *Journal of Alloys and Compounds* vol. 626, 368-374. Elsevier Bv.

Reduced thermal conductivity by nanoscale intergrowths in perovskite like layered structure La₂Ti₂O₇.

. *Journal of Applied Physics* vol. 117, (7). Aip Publishing.