

Somnath Acharya

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

505
citations

933447

10
h-index

1125743

13
g-index

13
all docs

13
docs citations

13
times ranked

830
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering ferroelectric instability to achieve ultralow thermal conductivity and high thermoelectric performance in Sn _{1-x} Ge _x Te. Energy and Environmental Science, 2019, 12, 589-595.	30.8	155
2	Soft phonon modes driven reduced thermal conductivity in self-compensated Sn _{1.03} Te with Mn doping. Applied Physics Letters, 2016, 109, .	3.3	69
3	Coupling of charge carriers with magnetic entropy for power factor enhancement in Mn doped Sn _{1.03} Te for thermoelectric applications. Journal of Materials Chemistry C, 2018, 6, 6489-6493.	5.5	56
4	Is Chemically Synthesized Graphene "Really" a Unique Substrate for SERS and Fluorescence Quenching?. Scientific Reports, 2013, 3, 3336.	3.3	48
5	Charge carriers modulation and thermoelectric performance of intrinsically p-type Bi ₂ Te ₃ by Ge doping. Journal of Alloys and Compounds, 2018, 746, 350-355.	5.5	30
6	Review on the operation of wearable sensors through body heat harvesting based on thermoelectric devices. Applied Physics Letters, 2021, 118, .	3.3	29
7	Reduction of the thermal conductivity of the thermoelectric material ScN by Nb alloying. Journal of Applied Physics, 2017, 122, 025116.	2.5	28
8	Enhancement of Power Factor for Inherently Poor Thermal Conductor Ag ₈ GeSe ₆ by Replacing Ge with Sn. ACS Applied Energy Materials, 2019, 2, 654-660.	5.1	26
9	Rare earth doping and effective band-convergence in SnTe for improved thermoelectric performance. Applied Physics Letters, 2018, 113, .	3.3	25
10	High Thermoelectric Performance of ZnO by Coherent Phonon Scattering and Optimized Charge Transport. Advanced Functional Materials, 2021, 31, 2105008.	14.9	19
11	Enhancement of thermoelectric performance in a non-toxic CuInTe ₂ /SnTe coated grain nanocomposite. Journal of Materials Chemistry A, 2021, 9, 14851-14858.	10.3	12
12	Enhanced thermoelectric properties of Yb doped SnTe. AIP Conference Proceedings, 2017, , .	0.4	4
13	High thermoelectric power factor in p-type Cu ₈ GeSe ₆ . AIP Conference Proceedings, 2019, , .	0.4	4