

Ranita Basu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A review on single crystal and thin film SiGe alloy: growth and applications. <i>Materials Advances</i> , 2022, 3, 4489-4513.	5.4	7
2	A synergistic approach to achieving the high thermoelectric performance of La-doped SnTe using resonance state and partial band convergence. <i>Materials Advances</i> , 2021, 2, 4352-4361.	5.4	8
3	Band Convergence and Phonon Scattering Mediated Improved Thermoelectric Performance of SnTe/PbTe Nanocomposites. <i>ACS Applied Energy Materials</i> , 2020, 3, 8882-8891.	5.1	7
4	Remarkable Improvement of Thermoelectric Figure-of-Merit in SnTe through In Situ-Created Te Nano-inclusions. <i>ACS Applied Energy Materials</i> , 2020, 3, 7113-7120.	5.1	14
5	Stabilizing Thermoelectric Figure-of-Merit of Superionic Conductor Cu_{2-x}Se through W Nano-inclusions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000102.	2.4	12
6	Temperature Driven Unusual Reversible p-to n-Type Conduction Switching in $\text{Bi}_{2-x}\text{Te}_{2.7}\text{Se}_{0.3}$. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900121.	2.4	3
7	Improving the Thermoelectric Performance of Tetrahedrally Bonded Quaternary Selenide $\text{Cu}_2\text{CdSnSe}_4$ Using CdSe Precipitates. <i>Journal of Electronic Materials</i> , 2019, 48, 2120-2130.	2.2	2
8	Optimization of Thermoelectric Properties of Mechanically Alloyed p-Type SiGe by Mathematical Modelling. <i>Journal of Electronic Materials</i> , 2019, 48, 649-655.	2.2	6
9	Optimisation of electrical contact resistance in $\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ for development of thermoelectric generators. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
10	Thermoelectric properties of Ag added $\text{Ca}_{0.98}\text{La}_{0.02}\text{MnO}_3$. , 2014, , .		3
11	High thermoelectric performance of $(\text{AgCrSe}_{2-x})_{0.5}(\text{CuCrSe}_{2-x})_{0.5}$ nano-composites having all-scale natural hierarchical architectures. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17122-17129.	10.3	82
12	Improved thermoelectric performance of hot pressed nanostructured n-type SiGe bulk alloys. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6922.	10.3	145
13	Improved Thermoelectric Properties of Se-Doped n-Type $\text{PbTe}_{1-x}\text{Se}_x$ ($0 \leq x \leq 1$). <i>Journal of Electronic Materials</i> , 2013, 42, 2292-2296.	2.2	14
14	CuCrSe_2 : a high performance phonon glass and electron crystal thermoelectric material. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11289.	10.3	85
15	Low temperature thermoelectric properties of Cu intercalated TiSe_2 : a charge density wave material. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 465-470.	2.3	24
16	Synergistic manifestation of band and scattering engineering in single aliovalent Sb alloyed anharmonic SnTe alloy in concurrence with rule of parsimony. <i>Materials Advances</i> , 0, , .	5.4	4