Amin Nozariasbmarz

List of Publications by Year
in descending order

38
papers

1,753
citations

361413
20
h-index

345221
36
g-index

39
all docs

39
docs citations

39
times ranked

1998
citing authors

#	Article	IF	Citations
1	Thermoelectric coolers for high-power-density 3D electronics heat management. Applied Physics Letters, 2022, 120, .	3.3	7
2	Synthesis and electrical behavior of VO2 thin films grown on SrRuO3 electrode layers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	2.1	2
3	Efficient self-powered wearable electronic systems enabled by microwave processed thermoelectric materials. Applied Energy, 2021, 283, 116211.	10.1	20
4	High-performance half-Heusler thermoelectric devices through direct bonding technique. Journal of Power Sources, 2021, 493, 229695.	7.8	24
5	Cost-Effective High-Performance Charge-Carrier-Transport-Layer-Free Perovskite Solar Cells Achieved by Suppressing Ion Migration. ACS Energy Letters, 2021, 6, 3044-3052.	17.4	65
6	Conformal High-Power-Density Half-Heusler Thermoelectric Modules: A Pathway toward Practical Power Generators. ACS Applied Materials & Interfaces, 2021, 13, 53935-53944.	8.0	12
7	Thermoelectric generators for wearable body heat harvesting: Material and device concurrent optimization. Nano Energy, 2020, 67, 104265.	16.0	65
8	Review of wearable thermoelectric energy harvesting: From body temperature to electronic systems. Applied Energy, 2020, 258, 114069.	10.1	356
9	Bismuth Telluride Thermoelectrics with 8% Module Efficiency for Waste Heat Recovery Application. IScience, 2020, 23, 101340.	4.1	53
10	Understanding Oxidation Resistance of Half-Heusler Alloys for in-Air High Temperature Sustainable Thermoelectric Generators. ACS Applied Materials & Interfaces, 2020, 12, 36706-36714.	8.0	25
11	Bismuth Telluride/Halfâ€Heusler Segmented Thermoelectric Unicouple Modules Provide 12% Conversion Efficiency. Advanced Energy Materials, 2020, 10, 2001924.	19.5	40
12	Effect of Microwave Processing and Glass Inclusions on Thermoelectric Properties of P-Type Bismuth Antimony Telluride Alloys for Wearable Applications. Energies, 2020, 13, 4524.	3.1	8
13	Decoupled phononic-electronic transport in multi-phase n-type half-Heusler nanocomposites enabling efficient high temperature power generation. Materials Today, 2020, 36, 63-72.	14.2	55
14	High-Performance Thermoelectric Generators for Field Deployments. ACS Applied Materials & Interfaces, 2020, 12, 10389-10401.	8.0	24
15	Tissue Engineering in Periodontal Regeneration. , 2020, , 301-327.		2
16	Filiform Metal Silver Nanoinclusions To Enhance Thermoelectric Performance of P-type Ca₃Co₄O_{9+Î´} Oxide. ACS Applied Materials & Interfaces, 2019, 11, 42131-42138.	8.0	22
17	Interfacial ponderomotive force in solids leads to field induced dissolution of materials and formation of non-equilibrium nanocomposites. Acta Materialia, 2019, 179, 85-92.	7.9	6
18	High Power Density Body Heat Energy Harvesting. ACS Applied Materials & Interfaces, 2019, 11, 40107-40113.	8.0	54

#	Article	IF	Citations
19	Energy scavenging from ultra-low temperature gradients. Energy and Environmental Science, 2019, 12, 1008-1018.	30.8	26
20	N-Type Bismuth Telluride Nanocomposite Materials Optimization for Thermoelectric Generators in Wearable Applications. Materials, 2019, 12, 1529.	2.9	35
21	Ultra-high performance wearable thermoelectric coolers with less materials. Nature Communications, 2019, 10, 1765.	12.8	174
22	High-Efficiency Skutterudite Modules at a Low Temperature Gradient. Energies, 2019, 12, 4292.	3.1	13
23	Field induced decrystallization of silicon: Evidence of a microwave non-thermal effect. Applied Physics Letters, 2018, 112, .	3.3	27
24	Thermoelectric silicides: A review. Japanese Journal of Applied Physics, 2017, 56, 05DA04.	1.5	129
25	Comparison of thermoelectric properties of nanostructured Mg₂Si, FeSi₂, SiGe, and nanocomposites of SiGeâ€“Mg₂Si, SiGeâ€“FeSi₂. APL Materials, 2016, 4, 104814.	5.1	37
26	Designing thermoelectric generators for self-powered wearable electronics. Energy and Environmental Science, 2016, 9, 2099-2113.	30.8	299
27	Non-hydrolytic sol-gel processing of chloride precursors loaded at forsterite stoichiometry. Journal of Alloys and Compounds, 2016, 688, 235-241.	5.5	8
28	Enhanced thermoelectric performance in a metal/semiconductor nanocomposite of iron silicide/silicon germanium. RSC Advances, 2016, 6, 49643-49650.	3.6	37
29	Development of Inexpensive SiGeâ€“FeSi2 Thermoelectric Nanocomposites. Energy Harvesting and Systems, 2015, 2, .	2.7	1
30	Cytotoxicity Evaluation and Magnetic Characteristics of Mechano-thermally Synthesized CuNi Nanoparticles for Hyperthermia. Journal of Materials Engineering and Performance, 2015, 24, 1220-1225.	2.5	20
31	Thermal conductivity of nanostructured SixGe1âˆ’x in amorphous limit by molecular dynamics simulation. Journal of Applied Physics, 2015, 117, 214303.	2.5	19
32	Synthesis and Characterization of CuNi Magnetic Nanoparticles by Mechano-Thermal Route. Journal of Superconductivity and Novel Magnetism, 2014, 27, 481-485.	1.8	11
33	Synthesis and Characterization of Nano-crystalline Calcium Hexaferrite Particles by Mechano-Thermal Method. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1353-1356.	1.8	3
34	Enhancement of thermoelectric power factor of silicon germanium films grown by electrophoresis deposition. Scripta Materialia, 2013, 69, 549-552.	5.2	37
35	Processing of nano-structured TiB[sub 2] by self-propagating high-temperature synthesis (SHS). , 2012, , .		0
36	Synthesis of zinc oxide nano-particles by mechano-thermal route. AIP Conference Proceedings, 2012, , .	0.4	2

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37	Synthesis and characterization of nano-structured TiB2 processed by milling assisted SHS route. Materials Characterization, 2012, 73, 96-103.	4.4	21
38	A facile synthesis of TiB2 nano-particles via mechano-thermal route. International Journal of Refractory Metals and Hard Materials, 2012, 33, 107-112.	3.8	14