

Amin Nozariasbmarz

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,753
citations

361045

20
h-index

344852

36
g-index

39
all docs

39
docs citations

39
times ranked

1998
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of wearable thermoelectric energy harvesting: From body temperature to electronic systems. <i>Applied Energy</i> , 2020, 258, 114069.	5.1	356
2	Designing thermoelectric generators for self-powered wearable electronics. <i>Energy and Environmental Science</i> , 2016, 9, 2099-2113.	15.6	299
3	Ultra-high performance wearable thermoelectric coolers with less materials. <i>Nature Communications</i> , 2019, 10, 1765.	5.8	174
4	Thermoelectric silicides: A review. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 05DA04.	0.8	129
5	Thermoelectric generators for wearable body heat harvesting: Material and device concurrent optimization. <i>Nano Energy</i> , 2020, 67, 104265.	8.2	65
6	Cost-Effective High-Performance Charge-Carrier-Transport-Layer-Free Perovskite Solar Cells Achieved by Suppressing Ion Migration. <i>ACS Energy Letters</i> , 2021, 6, 3044-3052.	8.8	65
7	Decoupled phononic-electronic transport in multi-phase n-type half-Heusler nanocomposites enabling efficient high temperature power generation. <i>Materials Today</i> , 2020, 36, 63-72.	8.3	55
8	High Power Density Body Heat Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40107-40113.	4.0	54
9	Bismuth Telluride Thermoelectrics with 8% Module Efficiency for Waste Heat Recovery Application. <i>IScience</i> , 2020, 23, 101340.	1.9	53
10	Bismuth Telluride/Half-Heusler Segmented Thermoelectric Unicouple Modules Provide 12% Conversion Efficiency. <i>Advanced Energy Materials</i> , 2020, 10, 2001924.	10.2	40
11	Enhancement of thermoelectric power factor of silicon germanium films grown by electrophoresis deposition. <i>Scripta Materialia</i> , 2013, 69, 549-552.	2.6	37
12	Comparison of thermoelectric properties of nanostructured Mg ₂ Si, FeSi ₂ , SiGe, and nanocomposites of SiGe/Mg ₂ Si, SiGe/FeSi ₂ . <i>APL Materials</i> , 2016, 4, 104814.	2.2	37
13	Enhanced thermoelectric performance in a metal/semiconductor nanocomposite of iron silicide/silicon germanium. <i>RSC Advances</i> , 2016, 6, 49643-49650.	1.7	37
14	N-Type Bismuth Telluride Nanocomposite Materials Optimization for Thermoelectric Generators in Wearable Applications. <i>Materials</i> , 2019, 12, 1529.	1.3	35
15	Field induced decrystallization of silicon: Evidence of a microwave non-thermal effect. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	27
16	Energy scavenging from ultra-low temperature gradients. <i>Energy and Environmental Science</i> , 2019, 12, 1008-1018.	15.6	26
17	Understanding Oxidation Resistance of Half-Heusler Alloys for in-Air High Temperature Sustainable Thermoelectric Generators. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36706-36714.	4.0	25
18	High-Performance Thermoelectric Generators for Field Deployments. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10389-10401.	4.0	24

#	ARTICLE	IF	CITATIONS
19	High-performance half-Heusler thermoelectric devices through direct bonding technique. Journal of Power Sources, 2021, 493, 229695.	4.0	24
20	Filiform Metal Silver Nanoinclusions To Enhance Thermoelectric Performance of P-type $\text{Ca}_{3}\text{Co}_{4}\text{O}_{9+\delta}$ Oxide. ACS Applied Materials & Interfaces, 2019, 11, 42131-42138.	4.0	22
21	Synthesis and characterization of nano-structured TiB_2 processed by milling assisted SHS route. Materials Characterization, 2012, 73, 96-103.	1.9	21
22	Cytotoxicity Evaluation and Magnetic Characteristics of Mechano-thermally Synthesized CuNi Nanoparticles for Hyperthermia. Journal of Materials Engineering and Performance, 2015, 24, 1220-1225.	1.2	20
23	Efficient self-powered wearable electronic systems enabled by microwave processed thermoelectric materials. Applied Energy, 2021, 283, 116211.	5.1	20
24	Thermal conductivity of nanostructured SixGe_{1-x} in amorphous limit by molecular dynamics simulation. Journal of Applied Physics, 2015, 117, 214303.	1.1	19
25	A facile synthesis of TiB_2 nano-particles via mechano-thermal route. International Journal of Refractory Metals and Hard Materials, 2012, 33, 107-112.	1.7	14
26	High-Efficiency Skutterudite Modules at a Low Temperature Gradient. Energies, 2019, 12, 4292.	1.6	13
27	Conformal High-Power-Density Half-Heusler Thermoelectric Modules: A Pathway toward Practical Power Generators. ACS Applied Materials & Interfaces, 2021, 13, 53935-53944.	4.0	12
28	Synthesis and Characterization of CuNi Magnetic Nanoparticles by Mechano-Thermal Route. Journal of Superconductivity and Novel Magnetism, 2014, 27, 481-485.	0.8	11
29	Non-hydrolytic sol-gel processing of chloride precursors loaded at forsterite stoichiometry. Journal of Alloys and Compounds, 2016, 688, 235-241.	2.8	8
30	Effect of Microwave Processing and Glass Inclusions on Thermoelectric Properties of P-Type Bismuth Antimony Telluride Alloys for Wearable Applications. Energies, 2020, 13, 4524.	1.6	8
31	Thermoelectric coolers for high-power-density 3D electronics heat management. Applied Physics Letters, 2022, 120, .	1.5	7
32	Interfacial ponderomotive force in solids leads to field induced dissolution of materials and formation of non-equilibrium nanocomposites. Acta Materialia, 2019, 179, 85-92.	3.8	6
33	Synthesis and Characterization of Nano-crystalline Calcium Hexaferrite Particles by Mechano-Thermal Method. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1353-1356.	0.8	3
34	Synthesis of zinc oxide nano-particles by mechano-thermal route. AIP Conference Proceedings, 2012, , .	0.3	2
35	Tissue Engineering in Periodontal Regeneration. , 2020, , 301-327.		2
36	Synthesis and electrical behavior of VO_2 thin films grown on SrRuO_3 electrode layers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, .	0.9	2

#	ARTICLE	IF	CITATIONS
37	Development of Inexpensive SiGe-FeSi ₂ Thermoelectric Nanocomposites. Energy Harvesting and Systems, 2015, 2, .	1.7	1
38	Processing of nano-structured TiB ₂ by self-propagating high-temperature synthesis (SHS)., 2012, .		0