

Bed Poudel

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

5,654
citations

566801

15
h-index

752256

20
g-index

20
all docs

20
docs citations

20
times ranked

5965
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric coolers for high-power-density 3D electronics heat management. Applied Physics Letters, 2022, 120, .	1.5	7
2	High-performance half-Heusler thermoelectric devices through direct bonding technique. Journal of Power Sources, 2021, 493, 229695.	4.0	24
3	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
4	Bismuth Telluride Thermoelectrics with 8% Module Efficiency for Waste Heat Recovery Application. IScience, 2020, 23, 101340.	1.9	53
5	Understanding Oxidation Resistance of Half-Heusler Alloys for in-Air High Temperature Sustainable Thermoelectric Generators. ACS Applied Materials & Interfaces, 2020, 12, 36706-36714.	4.0	25
6	Bismuth Telluride/Half-Heusler Segmented Thermoelectric Unicouple Modules Provide 12% Conversion Efficiency. Advanced Energy Materials, 2020, 10, 2001924.	10.2	40
7	Decoupled phononic-electronic transport in multi-phase n-type half-Heusler nanocomposites enabling efficient high temperature power generation. Materials Today, 2020, 36, 63-72.	8.3	55
8	High-Performance Thermoelectric Generators for Field Deployments. ACS Applied Materials & Interfaces, 2020, 12, 10389-10401.	4.0	24
9	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
10	High Power Density Body Heat Energy Harvesting. ACS Applied Materials & Interfaces, 2019, 11, 40107-40113.	4.0	54
11	Anisotropic Thermoelectric Performance and Sustainable Thermal Stability in Textured $\text{Ca}_{3}\text{Co}_{4}\text{O}_{9}/\text{Ag}$ Nanocomposites. ACS Applied Energy Materials, 2019, 2, 4292-4301.	2.5	8
12	Ultra-high performance wearable thermoelectric coolers with less materials. Nature Communications, 2019, 10, 1765.	5.8	174
13	Enhanced Thermoelectric Performance of Yb-Single-Filled Skutterudite by Ultralow Thermal Conductivity. Chemistry of Materials, 2019, 31, 862-872.	3.2	62
14	High-Efficiency Skutterudite Modules at a Low Temperature Gradient. Energies, 2019, 12, 4292.	1.6	13
15	Nanoscale Texturing and Interfaces in Compositionally Modified $\text{Ca}_{3}\text{Co}_{4}\text{O}_{9}$ with Enhanced Thermoelectric Performance. ACS Omega, 2018, 3, 10798-10810.	1.6	27
16	A quick and efficient measurement technique for performance evaluation of thermoelectric materials. Measurement Science and Technology, 2016, 27, 105008.	1.4	8
17	Efficient and Robust Thermoelectric Power Generation Device Using Hot-Pressed Metal Contacts on Nanostructured Half-Heusler Alloys. Journal of Electronic Materials, 2016, 45, 6047-6051.	1.0	34
18	Skutterudite Unicouple Characterization for Energy Harvesting Applications. Advanced Energy Materials, 2013, 3, 245-251.	10.2	83

#	ARTICLE	IF	CITATIONS
19	High-Thermoelectric Performance of Nanostructured Bismuth Antimony Telluride Bulk Alloys. Science, 2008, 320, 634-638.	6.0	4,843
20	Thermoelectric property studies on bulk TiOx with x from 1 to 2. Applied Physics Letters, 2007, 91, .	1.5	86