

Yucheng Lan

List of Publications by Year in descending order

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papers

12,611
citations

172207

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all docs

44
docs citations

44
times ranked

10130
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Thermoelectric Performance of Nanostructured Bismuth Antimony Telluride Bulk Alloys. Science, 2008, 320, 634-638.	6.0	4,843
2	Enhanced Thermoelectric Figure-of-Merit in Nanostructured p-type Silicon Germanium Bulk Alloys. Nano Letters, 2008, 8, 4670-4674.	4.5	1,014
3	Enhancement of Thermoelectric Figure-of-Merit by a Bulk Nanostructuring Approach. Advanced Functional Materials, 2010, 20, 357-376.	7.8	795
4	High thermoelectric performance by resonant dopant indium in nanostructured SnTe. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13261-13266.	3.3	632
5	Experimental Studies on Anisotropic Thermoelectric Properties and Structures of n-Type $\text{Bi}_{2-x}\text{Te}_{2.7}\text{Se}_{0.3}$. Nano Letters, 2010, 10, 3373-3378.	4.5	608
6	Thermoelectric Property Studies on Cu-Doped n-type $\text{Cu}_x\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}$ Nanocomposites. Advanced Energy Materials, 2011, 1, 577-587.	10.2	535
7	Enhanced Thermoelectric Figure-of-Merit in p-Type Nanostructured Bismuth Antimony Tellurium Alloys Made from Elemental Chunks. Nano Letters, 2008, 8, 2580-2584.	4.5	515
8	Power Factor Enhancement by Modulation Doping in Bulk Nanocomposites. Nano Letters, 2011, 11, 2225-2230.	4.5	461
9	Enhanced Thermoelectric Figure of Merit of p-Type Half-Heuslers. Nano Letters, 2011, 11, 556-560.	4.5	362
10	Mini review on photocatalysis of titanium dioxide nanoparticles and their solar applications. Nano Energy, 2013, 2, 1031-1045.	8.2	348
11	A molecular-imprint nanosensor for ultrasensitive detection of proteins. Nature Nanotechnology, 2010, 5, 597-601.	15.6	322
12	One-step synthesis of self-supported porous NiSe ₂ /Ni hybrid foam: An efficient 3D electrode for hydrogen evolution reaction. Nano Energy, 2016, 20, 29-36.	8.2	279
13	High thermoelectric performance of MgAgSb-based materials. Nano Energy, 2014, 7, 97-103.	8.2	264
14	Structure Study of Bulk Nanograined Thermoelectric Bismuth Antimony Telluride. Nano Letters, 2009, 9, 1419-1422.	4.5	236
15	Achieving high power factor and output power density in p-type half-Heuslers $\text{Nb}_{1-x}\text{Ti}_x\text{FeSb}$. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13576-13581.	3.3	213
16	NbFeSb-based p-type half-Heuslers for power generation applications. Energy and Environmental Science, 2014, 7, 4070-4076.	15.6	174
17	Higher thermoelectric performance of Zintl phases ($\text{Eu}_{0.5}\text{Yb}_{0.5}$) $\text{Ca}_x\text{Mg}_2\text{Bi}_2$ by band engineering and strain fluctuation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, F4125-32.	3.3	145
18	Physics and applications of aligned carbon nanotubes. Advances in Physics, 2011, 60, 553-678.	35.9	128

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19	Highly active and durable self-standing WS ₂ /graphene hybrid catalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9472-9476.	5.2	75
20	Study on thermoelectric performance by Na doping in nanostructured Mg _{1-x} Na _x Ag _{0.97} Sb _{0.99} . <i>Nano Energy</i> , 2015, 11, 640-646.	8.2	74
21	Bi ₂ S ₃ nanonetwork as precursor for improved thermoelectric performance. <i>Nano Energy</i> , 2014, 4, 113-122.	8.2	64
22	Investigating the thermoelectric properties of p-type half-Heusler Hf _x (ZrTi) _{1-x} CoSb _{0.8} Sn _{0.2} by reducing Hf concentration for power generation. <i>RSC Advances</i> , 2014, 4, 64711-64716.	1.7	54
23	Effect of Cu concentration on thermoelectric properties of nanostructured p-type MgAg _{0.97} ~CuSb _{0.99} . <i>Acta Materialia</i> , 2015, 87, 266-272.	3.8	53
24	Thermoelectric property enhancement in Yb-doped n-type skutterudites Yb _x Co ₄ Sb ₁₂ . <i>Acta Materialia</i> , 2014, 75, 316-321.	3.8	52
25	The great improvement effect of pores on ZT in Co _{1-x} Ni _x Sb ₃ system. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	46
26	Recent Progress on Irradiation-Induced Defect Engineering of Two-Dimensional 2H-MoS ₂ Few Layers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 678.	1.3	46
27	The effect of secondary phase on thermoelectric properties of Zn ₄ Sb ₃ compound. <i>Nano Energy</i> , 2013, 2, 1172-1178.	8.2	35
28	Nanostructured Thermoelectric Skutterudite Co _{1-x} Ni _x Sb ₃ Alloys. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4003-4006.	0.9	31
29	Thermoelectric and mechanical properties on misch metal filled p-type skutterudites Mm _{0.9} Fe ₄ ~xCoxSb ₁₂ . <i>Journal of Applied Physics</i> , 2015, 117, 055101.	1.1	31
30	Increased thermoelectric performance by Cl doping in nanostructured AgPb ₁₈ SbSe ₂₀ ~xCl _x . <i>Nano Energy</i> , 2013, 2, 1121-1127.	8.2	30
31	Effect of triple fillers in thermoelectric performance of p-type skutterudites. <i>Journal of Alloys and Compounds</i> , 2015, 623, 104-108.	2.8	26
32	Transport and mechanical properties of the double-filled p-type skutterudites La _{0.68} Ce _{0.22} Fe ₄ ~xCoxSb ₁₂ . <i>Acta Materialia</i> , 2016, 117, 13-22.	3.8	26
33	Thermoelectric performance of Ni compensated cerium and neodymium double filled p-type skutterudites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18170-18175.	1.3	20
34	Nanostructured YbAgCu ₄ for Potentially Cryogenic Thermoelectric Cooling. <i>Nano Letters</i> , 2014, 14, 5016-5020.	4.5	19
35	Enhanced Thermoelectric Performance of Zintl Phase Ca ₉ Zn ₄ ~xSb ₉ by Beneficial Disorder on the Selective Cationic Site. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37741-37747.	4.0	17
36	Gallium nitride porous microtubules self-assembled from wurtzite nanorods. <i>Journal of Crystal Growth</i> , 2015, 415, 139-145.	0.7	8

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37	Substitution of Antimony by Tin and Tellurium in n-Type Skutterudites $\text{CoSb}_{2.8}\text{Sn}_x\text{Te}_{0.2-x}$. Jom, 2014, 66, 2282-2287.	0.9	7
38	Boron carbide amorphous solid with tunable band gap. Journal of Alloys and Compounds, 2021, 861, 157951.	2.8	7
39	Enhancement of Thermoelectric Figure-of-Merit by a Nanostructure Approach. Materials Research Society Symposia Proceedings, 2009, 1166, 3.	0.1	5
40	Thermoelectric Nanocomposites for Thermal Energy Conversion. Nanoscience and Technology, 2016, , 371-443.	1.5	5
41	EELS Investigations of Carbon-rich Boron Carbide Nanomaterials. Microscopy and Microanalysis, 2018, 24, 1756-1757.	0.2	2
42	Properties and Applications of Aligned Carbon Nanotube Arrays. Nanoscience and Technology, 2012, , 183-253.	1.5	0