David Humberto Lopez

List of Publications by Year
in descending order

14 papers	146 citations	1307594 7 h-index	1199594 12 g-index
14 all docs	14 docs citations	14 times ranked	159 citing authors

#	Article	IF	Citations
1	Dual defect system of tellurium antisites and silver interstitials in off-stoichiometric Bi₂(Te,Se)_{3+y}causing enhanced thermoelectric performance. Journal of Materials Chemistry A, 2019, 7, 791-800.	10.3	28
2	Concurrent defects of intrinsic tellurium and extrinsic silver in an n-type Bi2Te2.88Se0.15 thermoelectric material. Nano Energy, 2019, 60, 26-35.	16.0	27
3	Interfacial energy band and phonon scattering effect in Bi2Te3-polypyrrole hybrid thermoelectric material. Applied Physics Letters, 2018, 113, .	3.3	17
4	New Chemical Reaction Process of a Bi₂Te_{2.7}Se_{0.3} Nanomaterial for Feasible Optimization in Transport Properties Resulting in Predominant n-Type Thermoelectric Performance. Industrial & Engineering Chemistry Research, 2016, 55, 5623-5633.	3.7	15
5	Interfacial effects in an inorganic/organic composite based on Bi₂Te₃inducing decoupled transport properties and enhanced thermoelectric performance. Journal of Materials Chemistry A, 2022, 10, 13780-13792.	10.3	12
6	Crystal alignment of a LiNi0.5Mn0.3Co0.2O2 electrode material for lithium ion batteries using its magnetic properties. Applied Physics Letters, 2020, 117, .	3.3	10
7	Decoupling effect of electrical and thermal properties of Bi2Te3-polypyrrole hybrid material causing remarkable enhancement in thermoelectric performance. Journal of Industrial and Engineering Chemistry, 2019, 71, 119-126.	5.8	8
8	Energy filtering and phonon scattering effects in Bi2Te3â€“PEDOT:PSS composite resulting in enhanced n-type thermoelectric performance. Applied Physics Letters, 2022, 120, .	3.3	8
9	Decoupling of thermal and electrical conductivities by adjusting the anisotropic nature in tungsten diselenide causing significant enhancement in thermoelectric performance. Journal of Industrial and Engineering Chemistry, 2018, 60, 458-464.	5.8	7
10	A novel chemical process of Bi 2 Te 2.7 Se 0.3 nanocompound for effective adjustment in transport properties resulting in remarkable n-type thermoelectric performance. Scripta Materialia, 2016, 119, 13-16.	5.2	4
11	Effects of the Interface between Inorganic and Organic Components in a Bi2Te3â€“Polypyrrole Bulk Composite on Its Thermoelectric Performance. Materials, 2021, 14, 3080.	2.9	4
12	Morphological characteristics in polycrystalline tungsten diselenide regulating transport properties lead to predominant thermoelectric performance. Journal of Alloys and Compounds, 2017, 722, 183-189.	5.5	3
13	The relationship of CCL4, BCL2A1, and NFKBIA genes with premature aging in women of Yin deficiency constitution. Experimental Gerontology, 2021, 149, 111316.	2.8	2
14	Selective generation of Ag interstitial defects in Te-rich Bi 2 (Te,Se) 3 using Ag nanoparticles causing significant improvement in thermoelectric performance. Scripta Materialia, 2018, 144, 36-39.	5.2	1