

Xin Liang

List of Publications by Year in descending order

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34
papers

612
citations

623734

14
h-index

610901

24
g-index

34
all docs

34
docs citations

34
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural evolution and strain hardening of Fe ₂₄ Mn and Fe ₃₀ Mn alloys during tensile deformation. <i>Acta Materialia</i> , 2009, 57, 3978-3988.	7.9	93
2	Thermoelectric transport properties of naturally nanostructured Ga ₂ ZnO ceramics: Effect of point defect and interfaces. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1643-1650.	5.7	57
3	Epoxy Nanocomposites with Reduced Graphene Oxide-Constructed Three-Dimensional Networks of Single Wall Carbon Nanotube for Enhanced Thermal Management Capability with Low Filler Loading. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3051-3058.	8.0	54
4	Thermoelectric Transport Properties of Fe-Enriched ZnO with High-Temperature Nanostructure Refinement. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7927-7937.	8.0	43
5	Relation between thermoelectric properties and phase equilibria in the ZnO-In ₂ O ₃ binary system. <i>Acta Materialia</i> , 2014, 63, 191-201.	7.9	34
6	Thermal (Kapitza) resistance of interfaces in compositional dependent ZnO-In ₂ O ₃ superlattices. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	32
7	Enhanced thermoelectric performance of n-type transformable AgBiSe ₂ polymorphs by indium doping. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	30
8	Ductile inorganic amorphous/crystalline composite Ag ₄ TeS with phonon-glass electron-crystal transport behavior and excellent stability of high thermoelectric performance on plastic deformation. <i>Acta Materialia</i> , 2021, 218, 117231.	7.9	29
9	Phase Transition Engineering of Cu ₂ S to Widen the Temperature Window of Improved Thermoelectric Performance. <i>Advanced Electronic Materials</i> , 2019, 5, 1900486.	5.1	27
10	Impact of grain boundary characteristics on lattice thermal conductivity: A kinetic theory study on ZnO. <i>Physical Review B</i> , 2017, 95, .	3.2	22
11	Quantification and promotion of interfacial interactions between carbon nanotubes and polymer derived ceramics. <i>Carbon</i> , 2015, 95, 964-971.	10.3	21
12	Employing nanoscale surface morphologies to improve interfacial adhesion between solid electrolytes and Li ion battery cathodes. <i>Acta Materialia</i> , 2015, 98, 175-181.	7.9	17
13	Thermoelectric properties of Bi _{1-x} Sn _x CuSeO solid solutions. <i>Dalton Transactions</i> , 2017, 46, 2510-2515.	3.3	16
14	Remarkable enhancement in the Kapitza resistance and electron potential barrier of chemically modified In ₂ O ₃ (ZnO) ₉ natural superlattice interfaces. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29655-29660.	2.8	15
15	Modeling of γ -alumina lateral phase transformation with applications to oxidation kinetics of NiAl-based alloys. <i>Materials and Design</i> , 2016, 112, 519-529.	7.0	14
16	Mobile copper ions as heat carriers in polymorphous copper sulfide superionic conductors. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	13
17	Optical and vibrational properties of (ZnO) _k /In ₂ O ₃ natural superlattice nanostructures. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	11
18	The impact of core-shell nanotube structures on fracture in ceramic nanocomposites. <i>Acta Materialia</i> , 2017, 122, 82-91.	7.9	11

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19	Interfacial thermal and electrical transport properties of pristine and nanometer-scale ZnS modified grain boundary in ZnO polycrystals. <i>Acta Materialia</i> , 2018, 148, 100-109.	7.9	11
20	Electron and phonon transport anisotropy of ZnO at and above room temperature. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	10
21	Optimizing interfacial transport properties of InO ₂ single atomic layers in In ₂ O ₃ (ZnO) ₄ natural superlattices for enhanced high temperature thermoelectrics. <i>Nanoscale</i> , 2018, 10, 4500-4514.	5.6	8
22	Microstructural characterization of transformable Fe-Mn alloys at different length scales. <i>Materials Characterization</i> , 2009, 60, 1224-1231.	4.4	6
23	Recasting the Callaway and von Baeyer thermal conductivity model on defective oxide materials: the ZnO-In ₂ O ₃ system as an example. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27889-27893.	2.8	6
24	Orientation dependent physical transport behavior and the micro-mechanical response of ZnO nanocomposites induced by SWCNTs and graphene: importance of intrinsic anisotropy and interfaces. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1208-1221.	5.5	6
25	Effect of plastic deformation on phonon thermal conductivity of Ag ₂ S. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	6
26	Single layer In-O atomic sheets as phonon and electron barriers in ZnO-In ₂ O ₃ natural superlattices: Implications for thermoelectricity. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	5
27	Origin of anisotropy and compositional dependence of phonon and electron transport in ZnO based natural superlattices and role of atomic layer interfaces. <i>Nano Energy</i> , 2019, 59, 651-666.	16.0	5
28	Achieving ultralow lattice thermal conductivity and improved thermoelectric performance in BiSe by doping. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3905-3912.	5.7	3
29	Scaling of stacking fault energy and deformation temperature on strain hardening of FCC metals and alloys. <i>Philosophical Magazine Letters</i> , 2014, 94, 556-563.	1.2	2
30	Lattice thermal conductivity of transition metal carbides: Evidence of a strong electron-phonon interaction above room temperature. <i>Acta Materialia</i> , 2021, 216, 117160.	7.9	2
31	Reduction of the Lorenz Number in Copper at Room Temperature due to Strong Inelastic Electron Scattering Brought about by High-Density Dislocations. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 507-512.	4.6	1
32	Influence of nonstoichiometry point defects on electronic thermal conductivity. <i>Applied Physics Letters</i> , 2020, 117, 213901.	3.3	1
33	Nanostructure Engineering of ZnO Based Complex Oxides for Thermoelectric Application. <i>Current Nanoscience</i> , 2016, 12, 157-168.	1.2	1
34	Thermal conductivity of nanostructured ZnO. , 2021, , 225-251.		0