Pengcheng Zhai

List of Publications by Year
in descending order

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19 papers	165 citations	1307366 7 h-index	1199470 12 g-index
19 all docs	19 docs citations	19 times ranked	181 citing authors

#	Article	IF	Citations
1	Electronic Localization Derived Excellent Stability of Li Metal Anode with Ultrathin Alloy. Advanced Science, 2022, 9, e2105656.	5.6	22
2	Thermoelectric properties of electronegatively filled S_yCo_{4â^'x}Ni_xSb₁₂ skutterudites. Journal of Materials Chemistry C, 2019, 7, 8079-8085.	2.7	21
3	Shear induced deformation twinning evolution in thermoelectric InSb. Npj Computational Materials, 2021, 7, .	3.5	16
4	Dynamic response of shear thickening fluid reinforced with SiC nanowires under high strain rates. Applied Physics Letters, 2017, 111, .	1.5	15
5	High-Pressure Rapid Preparation of High-Performance Binary Silver Sulfide Thermoelectric Materials. ACS Applied Energy Materials, 2021, 4, 1610-1618.	2.5	15
6	Beneficial Effect of S-Filling on Thermoelectric Properties of S x Co4Sb11.2Te0.8 Skutterudite. Journal of Electronic Materials, 2018, 47, 3061-3066.	1.0	14
7	Substantial enhancement of mechanical properties for SnSe based composites with potassium titanate whiskers. Journal of Materials Science: Materials in Electronics, 2019, 30, 8502-8507.	1.1	9
8	Band structure and thermoelectric properties of Al-doped Mg3â^'xAlxSb2 compounds. Journal of Materials Science: Materials in Electronics, 2019, 30, 15206-15213.	1.1	8
9	Numerical analysis on the flowâ€“compaction behavior and the effect of interface permeability in thick composite plates during autoclave processing. Journal of Materials Science, 2018, 53, 14412-14422.	1.7	7
10	A Magneto-Hyperelastic Model for Silicone Rubber-Based Isotropic Magnetorheological Elastomer under Quasi-Static Compressive Loading. Polymers, 2020, 12, 2435.	2.0	7
11	High pressure synthesis of multiple doped Mg2Si-based thermoelectric materials. Journal of Materials Science: Materials in Electronics, 2018, 29, 10904-10910.	1.1	6
12	Size effect on mechanical properties of nanotwinned Mg2Si from molecular dynamics simulation. Computational Materials Science, 2020, 185, 109972.	1.4	5
13	Experimental Investigation on the Effect of Graphene Oxide Additive on the Steady-State and Dynamic Shear Properties of PDMS-Based Magnetorheological Elastomer. Polymers, 2021, 13, 1777.	2.0	5
14	Rapid preparations and thermoelectric properties of bulk skutterudites with in situ nanostructures. AIP Advances, 2018, 8, .	0.6	4
15	Effects of graphene oxide on microstructure and mechanical properties of isotropic polydimethylsiloxane-based magnetorheological elastomers. Rheologica Acta, 2022, 61, 215-228.	1.1	4
16	Effects of sintering temperature on the microstructure and thermoelectric properties of mesostructured Co4Sb11.5Te0.5 skutterudites dispersed nano-TiN. Journal of Materials Science: Materials in Electronics, 2018, 29, 18105-18110.	1.1	3
17	Numerical Analysis on Process-Induced Residual Stress in Thick Semi-Cylindrical Composite Shell Using a State-Dependent Viscoelastic Model. Applied Composite Materials, 2019, 26, 519-532.	1.3	2
18	Rapid fabrication and thermoelectric properties of Sn1.03Te-based materials with porous configuration. Journal of Materials Science: Materials in Electronics, 2022, 33, 2479-2489.	1.1	1

#	Article	IF	Citations
19	Deformation and Failure Mechanisms of Thermoelectric Type-I Clathrate Ba₈Au₆Ge₄₀. ACS Applied Materials & Interfaces, 2022, 14, 4326-4334.	4.0	1