

Jing Cao

List of Publications by Year in descending order

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27
papers

734
citations

623734

14
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526287

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28
all docs

28
docs citations

28
times ranked

661
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure and Thermal Properties of Plasma Sprayed Thermal Barrier Coatings from Nanostructured YSZ. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 1186-1194.	3.1	126
2	Thermoelectric materials and transport physics. <i>Materials Today Physics</i> , 2021, 21, 100519.	6.0	77
3	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18880-18890.	10.3	61
4	Achieving high thermoelectric quality factor toward high figure of merit in GeTe. <i>Materials Today Physics</i> , 2020, 14, 100239.	6.0	61
5	Gate-tunable Polar Optical Phonon to Piezoelectric Scattering in Few-layer Bi ₂ O ₂ Se for High-performance Thermoelectrics. <i>Advanced Materials</i> , 2021, 33, e2004786.	21.0	48
6	Characterization of Sn-doped CuO thin films prepared by a sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1719-1724.	2.2	39
7	Effective enhancement of thermoelectric and mechanical properties of germanium telluride <i>via</i> rhenium-doping. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16940-16948.	5.5	38
8	Suppressing Ge-vacancies to achieve high single-leg efficiency in GeTe with an ultra-high room temperature power factor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23335-23344.	10.3	38
9	Realizing zT Values of 2.0 in Cubic GeTe. <i>ChemNanoMat</i> , 2021, 7, 476-482.	2.8	35
10	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. <i>Advanced Materials</i> , 2022, 34, e2110518.	21.0	25
11	Hot corrosion and internal spallation of laser-cladded inconel 625 superalloy coatings in molten sulfate salts. <i>Corrosion Science</i> , 2021, 193, 109869.	6.6	23
12	An Overview of Ferroelectric Hafnia and Epitaxial Growth. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100025.	2.4	21
13	Integrating recyclable polymers into thermoelectric devices for green electronics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19787-19796.	10.3	21
14	Enhanced localized superconductivity in Sr ₂ RuO ₄ thin film by pulsed laser deposition. <i>Superconductor Science and Technology</i> , 2016, 29, 095005.	3.5	19
15	Improved <i>zT</i> in Nb ₅ Ge ₃ GeTe thermoelectric nanocomposite. <i>Nanoscale</i> , 2022, 14, 410-418.	5.6	16
16	Recent advances in laser-cladding of metal alloys for protective coating and additive manufacturing. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 2482-2504.	2.6	13
17	Emerging Applications of Mass Spectrometry-based Metabolic Fingerprinting in Clinics. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	12
18	Controlling Resistance Switching Performances of Hf _{0.5} Zr _{0.5} O ₂ Films by Substrate Stress and Potential in Neuromorphic Computing. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	11

#	ARTICLE	IF	CITATIONS
19	Microstructure and Mechanical Behavior of Heat-Treated and Thermomechanically Processed TA15 Ti Alloy Composites. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 788-799.	2.5	10
20	Potential of Recycled Silicon and Silicon-Based Thermoelectrics for Power Generation. <i>Crystals</i> , 2022, 12, 307.	2.2	9
21	Direct deposition of low-cost carbon fiber reinforced stainless steel composites by twin-wire arc spray. <i>Journal of Materials Processing Technology</i> , 2022, 301, 117440.	6.3	8
22	Laser-cladding and robotic hammer peening of stainless steel 431 on low alloy steel 4140 for surface enhancement and corrosion protections. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 2313-2327.	2.6	7
23	Well-aligned ZnO nanorod arrays derived from 2D photonic crystals within peacock feathers. <i>CrystEngComm</i> , 2012, 14, 5262.	2.6	5
24	Tri-Modal Microstructure Evolution in Near- $\hat{\epsilon}^2$ and Two Phase Field Heat Treatments of Conventionally Forged TA15 Ti-Alloy. <i>Advanced Engineering Materials</i> , 2017, 19, 1600796.	3.5	4
25	Determination of multi-direction loading path based on analytical method in forming of multi-cavity parts by considering folding defect. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 475-483.	3.0	3
26	Physical simulation experiment and evaluation for folding defect in forming of multi-cavity parts by multi-direction loading. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 2933-2942.	3.0	2
27	Thermoelectricity: Phenomenon and applications. , 2022, , 267-293.		0