Jing Cao

List of Publications by Year in descending order

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27 papers	734 citations	623734 14 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	661 citing authors

#	Article	IF	Citations
1	Direct deposition of low-cost carbon fiber reinforced stainless steel composites by twin-wire arc spray. Journal of Materials Processing Technology, 2022, 301, 117440.	6.3	8
2	Improved zT in Nb₅Ge₃â€“GeTe thermoelectric nanocomposite. Nanoscale, 2022, 14, 410-418.	5.6	16
3	Emerging Applications of Mass Spectrometryâ€Based Metabolic Fingerprinting in Clinics. Advanced Intelligent Systems, 2022, 4, .	6.1	12
4	Potential of Recycled Silicon and Silicon-Based Thermoelectrics for Power Generation. Crystals, 2022, 12, 307.	2.2	9
5	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. Advanced Materials, 2022, 34, e2110518.	21.0	25
6	Controlling Resistance Switching Performances of Hf_{0.5}Zr_{0.5}O₂ Films by Substrate Stress and Potential in Neuromorphic Computing. Advanced Intelligent Systems, 2022, 4, .	6.1	11
7	Laser-cladding and robotic hammer peening of stainless steel 431 on low alloy steel 4140 for surface enhancement and corrosion protections. Journal of Adhesion Science and Technology, 2022, 36, 2313-2327.	2.6	7
8	Integrating recyclable polymers into thermoelectric devices for green electronics. Journal of Materials Chemistry A, 2022, 10, 19787-19796.	10.3	21
9	Thermoelectricity: Phenomenon and applications. , 2022, , 267-293.		0
10	Recent advances in laser-cladding of metal alloys for protective coating and additive manufacturing. Journal of Adhesion Science and Technology, 2022, 36, 2482-2504.	2.6	13
11	Gateâ€Tunable Polar Optical Phonon to Piezoelectric Scattering in Fewâ€Layer Bi₂O₂Se for Highâ€Performance Thermoelectrics. Advanced Materials, 2021, 33, e2004786.	21.0	48
12	Realizing zT Values of 2.0 in Cubic GeTe. ChemNanoMat, 2021, 7, 476-482.	2.8	35
13	An Overview of Ferroelectric Hafnia and Epitaxial Growth. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100025.	2.4	21
14	Hot corrosion and internal spallation of laser-cladded inconel 625 superalloy coatings in molten sulfate salts. Corrosion Science, 2021, 193, 109869.	6.6	23
15	Thermoelectric materials and transport physics. Materials Today Physics, 2021, 21, 100519.	6.0	77
16	Suppressing Ge-vacancies to achieve high single-leg efficiency in GeTe with an ultra-high room temperature power factor. Journal of Materials Chemistry A, 2021, 9, 23335-23344.	10.3	38
17	Effective enhancement of thermoelectric and mechanical properties of germanium telluride via rhenium-doping. Journal of Materials Chemistry C, 2020, 8, 16940-16948.	5.5	38
18	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. Journal of Materials Chemistry A, 2020, 8, 18880-18890.	10.3	61

#	Article	IF	Citations
19	Achieving high thermoelectric quality factor toward high figure of merit in GeTe. Materials Today Physics, 2020, 14, 100239.	6.0	61
20	Determination of multi-direction loading path based on analytical method in forming of multi-cavity parts by considering folding defect. International Journal of Advanced Manufacturing Technology, 2019, 100, 475-483.	3.0	3
21	Microstructure and Mechanical Behavior of Heat-Treated and Thermomechanically Processed TA15 Ti Alloy Composites. Journal of Materials Engineering and Performance, 2019, 28, 788-799.	2.5	10
22	Physical simulation experiment and evaluation for folding defect in forming of multi-cavity parts by multi-direction loading. International Journal of Advanced Manufacturing Technology, 2018, 98, 2933-2942.	3.0	2
23	Triâ€Modal Microstructure Evolution in Nearâ€Îˆ² and Two Phase Field Heat Treatments of Conventionally Forged TA15 Tiâ€Alloy. Advanced Engineering Materials, 2017, 19, 1600796.	3.5	4
24	Enhanced localized superconductivity in Sr₂RuO₄thin film by pulsed laser deposition. Superconductor Science and Technology, 2016, 29, 095005.	3.5	19
25	Characterization of Sn-doped CuO thin films prepared by a solâ€“gel method. Journal of Materials Science: Materials in Electronics, 2016, 27, 1719-1724.	2.2	39
26	Well-aligned ZnO nanorod arrays derived from 2D photonic crystals within peacock feathers. CrystEngComm, 2012, 14, 5262.	2.6	5
27	Microstructure and Thermal Properties of Plasma Sprayed Thermal Barrier Coatings from Nanostructured YSZ. Journal of Thermal Spray Technology, 2010, 19, 1186-1194.	3.1	126