

Hai-You Huang

List of Publications by Year in descending order

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43
papers

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citations

430874

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docs citations

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times ranked

1162
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and Photocatalytic Activity of Dendrite-like ZnO@Ag Heterostructure Nanocrystals. <i>Crystal Growth and Design</i> , 2009, 9, 3278-3285.	3.0	206
2	SESF-Fuse: an unsupervised deep model for multi-focus image fusion. <i>Neural Computing and Applications</i> , 2021, 33, 5793-5804.	5.6	112
3	Giant elastocaloric effect covering wide temperature range in columnar-grained Cu _{71.5} Al _{17.5} Mn ₁₁ shape memory alloy. <i>APL Materials</i> , 2016, 4, 106106.	5.1	79
4	The roles of grain orientation and grain boundary characteristics in the enhanced superelasticity of Cu _{71.8} Al _{17.8} Mn _{10.4} shape memory alloys. <i>Materials & Design</i> , 2014, 64, 427-433.	5.1	78
5	Superelastic anisotropy characteristics of columnar-grained Cu-Al-Mn shape memory alloys and its potential applications. <i>Materials and Design</i> , 2015, 85, 211-220.	7.0	68
6	Deep Learning-Based Image Segmentation for Al-La Alloy Microscopic Images. <i>Symmetry</i> , 2018, 10, 107.	2.2	62
7	Machine learning assisted design of σ -strengthened Co-base superalloys with multi-performance optimization. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	56
8	Structure design of high-performance Cu-based shape memory alloys. <i>Rare Metals</i> , 2015, 34, 607-624.	7.1	44
9	Interfacial Microstructure and Bonding Strength of Copper Cladding Aluminum Rods Fabricated by Horizontal Core-Filling Continuous Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 4088-4099.	2.2	42
10	Data augmentation in microscopic images for material data mining. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	41
11	Tuning the operation temperature window of the elastocaloric effect in Cu-Al-Mn shape memory alloys by composition design. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154265.	5.5	36
12	Effects of Processing Parameters on the Fabrication of Copper Cladding Aluminum Rods by Horizontal Core-Filling Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011, 42, 104-113.	2.1	32
13	Texture evolution and flow stress of columnar-grained polycrystalline copper during intense plastic deformation process at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 418-425.	5.6	30
14	Superelastic fatigue of columnar-grained Cu-Al-Mn shape memory alloy under cyclic tension at high strain. <i>Scripta Materialia</i> , 2017, 136, 106-110.	5.2	30
15	Microstructure and superelasticity control by rolling and heat treatment in columnar-grained Cu-Al-Mn shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 315-322.	5.6	29
16	Tuning the Ferroelectric and Piezoelectric Properties of 0.91Pb(Zn _{1/3} Nb _{2/3})O ₃ -0.09PbTiO ₃ Single Crystals and Lead Zirconate Titanate Ceramics by Doping Hydrogen. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9955-9960.	3.1	21
17	Effects of aging treatment on the microstructure and superelasticity of columnar-grained Cu ₇₁ Al ₁₈ Mn ₁₁ shape memory alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 1157-1166.	4.9	20
18	Effects of Strain Rate and Measuring Temperature on the Elastocaloric Cooling in a Columnar-Grained Cu ₇₁ Al _{17.5} Mn _{11.5} Shape Memory Alloy. <i>Metals</i> , 2017, 7, 527.	2.3	20

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19	Enhanced room-temperature tensile ductility of columnar-grained polycrystalline Cu-12wt.%Al alloy through texture control by Ohno continuous casting process. <i>Materials Letters</i> , 2011, 65, 1123-1126.	2.6	19
20	Accelerating the development of multi-component Cu-Al-based shape memory alloys with high elastocaloric property by machine learning. <i>Computational Materials Science</i> , 2020, 176, 109521.	3.0	19
21	Numerical simulation of temperature field in horizontal core-filling continuous casting for copper cladding aluminum rods. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 684-692.	4.9	18
22	Deep learning-based automatic inpainting for material microscopic images. <i>Journal of Microscopy</i> , 2021, 281, 177-189.	1.8	17
23	Microbridge tests on gallium nitride thin films. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 095019.	2.6	15
24	Dynamic Recovery and Superelasticity of Columnar-Grained Cu-Al-Mn Shape Memory Alloy. <i>Metals</i> , 2017, 7, 141.	2.3	15
25	An infrastructure with user-centered presentation data model for integrated management of materials data and services. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	15
26	Two-Way Shape Memory Effect Induced by Tensile Deformation in Columnar-Grained Cu _{71.7} Al _{18.1} Mn _{10.2} Alloy. <i>Materials</i> , 2018, 11, 2109.	2.9	11
27	Large [001] single crystals via abnormal grain growth from columnar polycrystal. <i>Materialia</i> , 2019, 6, 100336.	2.7	11
28	A fast algorithm for material image sequential stitching. <i>Computational Materials Science</i> , 2019, 158, 1-13.	3.0	11
29	Effect of strain rate on the compressive deformation behaviors of lotus-type porous copper. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 687-695.	4.9	10
30	Stress-induced phase transformation characteristics and its effect on the enhanced ductility in continuous columnar-grained polycrystalline Cu-12wt%Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 596, 103-111.	5.6	10
31	The behaviour of 180° polarization switching in BaTiO ₃ from first principles calculations. <i>Computational Materials Science</i> , 2014, 82, 1-4.	3.0	10
32	Fine-tuning the ductile-brittle transition temperature of Mg ₂ Si intermetallic compound via Al doping. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 507-515.	4.9	10
33	Effect of compression direction on the dynamic recrystallization behavior of continuous columnar-grained CuNi ₁₀ Fe ₁ Mn alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 851-859.	4.9	8
34	Machine learning assisted empirical formula augmentation. <i>Materials and Design</i> , 2021, 210, 110037.	7.0	8
35	Experiments and first principles calculations on the effects of hydrogen on the optical properties of ferroelectric materials. <i>Journal of Materials Science</i> , 2009, 44, 5768-5772.	3.7	7
36	DO ₂₂ -(Cu,Ni) ₃ Sn intermetallic compound nanolayer formed in Cu/Sn-nanolayer/Ni structures. <i>Journal of Alloys and Compounds</i> , 2009, 486, 207-211.	5.5	7

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37	Tensionâ€™compression asymmetry of stress-induced transformations in martensitic Cu-12wt.% Al alloys. <i>Materials Letters</i> , 2012, 79, 51-54.	2.6	7
38	Fracture criterion for conductive cracks in soda-lime glass under combined mechanical and electrical loading. <i>International Journal of Fracture</i> , 2010, 164, 185-199.	2.2	5
39	Cu diffusion kinetics in (Cu, Ni) ₃ Sn intermetallic compound nanolayers investigated by an Energy-Dispersive-X-ray-based permeation test. <i>Thin Solid Films</i> , 2009, 518, 201-205.	1.8	4
40	Stress relaxation behavior of columnar-grained Cuâ€™Alâ€™Mn shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 768, 138432.	5.6	3
41	First principles calculations of hydrogen-induced decrease in the cohesive strength of Î±-Al ₂ O ₃ single crystals. <i>Computational Materials Science</i> , 2012, 54, 81-83.	3.0	2
42	Hydrogen in Ferroelectrics. , 0, , .		1
43	Effect of Alloying Elements on the Stacking Fault Energy and Ductility in Mg ₂ Si Intermetallic Compounds. <i>ACS Omega</i> , 2021, 6, 20254-20263.	3.5	1