

Hai-You Huang

List of Publications by Year in descending order

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43
papers

1,250
citations

430874

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377865

34
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all docs

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docs citations

44
times ranked

1162
citing authors

#	ARTICLE	IF	CITATIONS
1	SESF-Fuse: an unsupervised deep model for multi-focus image fusion. <i>Neural Computing and Applications</i> , 2021, 33, 5793-5804.	5.6	112
2	Deep learning-based automatic inpainting for material microscopic images. <i>Journal of Microscopy</i> , 2021, 281, 177-189.	1.8	17
3	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
4	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
5	Machine learning assisted empirical formula augmentation. <i>Materials and Design</i> , 2021, 210, 110037.	7.0	8
6	Data augmentation in microscopic images for material data mining. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	41
7	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
8	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
9	Machine learning assisted design of γ -strengthened Co-base superalloys with multi-performance optimization. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	56
10	Stress relaxation behavior of columnar-grained Cu-Al-Mn shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 768, 138432.	5.6	3
11	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
12	Large [001] single crystals via abnormal grain growth from columnar polycrystal. <i>Materialia</i> , 2019, 6, 100336.	2.7	11
13	A fast algorithm for material image sequential stitching. <i>Computational Materials Science</i> , 2019, 158, 1-13.	3.0	11
14	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
15	Deep Learning-Based Image Segmentation for Al-La Alloy Microscopic Images. <i>Symmetry</i> , 2018, 10, 107.	2.2	62
16	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
17	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
18	Dynamic Recovery and Superelasticity of Columnar-Grained Cu-Al-Mn Shape Memory Alloy. <i>Metals</i> , 2017, 7, 141.	2.3	15

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19	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
20	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
21	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
22	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
23	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
24	Structure design of high-performance Cu-based shape memory alloys. <i>Rare Metals</i> , 2015, 34, 607-624.	7.1	44
25	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
26	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
27	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
28	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
29	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
30	First principles calculations of hydrogen-induced decrease in the cohesive strength of α -Al ₂ O ₃ single crystals. <i>Computational Materials Science</i> , 2012, 54, 81-83.	3.0	2
31	Tension-compression asymmetry of stress-induced transformations in martensitic Cu-12wt.% Al alloys. <i>Materials Letters</i> , 2012, 79, 51-54.	2.6	7
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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. Journal of Physical Chemistry C, 2010, 114, 9955-9960.	3.1	21
38	Microbridge tests on gallium nitride thin films. Journal of Micromechanics and Microengineering, 2009, 19, 095019.	2.6	15
39	Experiments and first principles calculations on the effects of hydrogen on the optical properties of ferroelectric materials. Journal of Materials Science, 2009, 44, 5768-5772.	3.7	7
40	Cu diffusion kinetics in (Cu, Ni) ₃ Sn intermetallic compound nanolayers investigated by an Energy-Dispersive-X-ray-based permeation test. Thin Solid Films, 2009, 518, 201-205.	1.8	4
41	DO ₂ in (Cu,Ni) ₃ Sn intermetallic compound nanolayer formed in Cu/Sn-nanolayer/Ni structures. Journal of Alloys and Compounds, 2009, 486, 207-211.	5.5	7
42	Growth and Photocatalytic Activity of Dendrite-like ZnO@Ag Heterostructure Nanocrystals. Crystal Growth and Design, 2009, 9, 3278-3285.	3.0	206
43	Hydrogen in Ferroelectrics. , 0, , .		1