

Hao Wang

List of Publications by Year in descending order

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84
papers

3,032
citations

172207
29
h-index

174990
52
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all docs

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docs citations

84
times ranked

3022
citing authors

#	ARTICLE	IF	CITATIONS
1	Yttrium for the selective laser melting of Ti-45Al-8Nb intermetallic: Powder surface structure, laser absorptivity, and printability. <i>Journal of Alloys and Compounds</i> , 2022, 892, 161970.	2.8	6
2	Inheritance of microstructure and mechanical properties in laser powder bed fusion additive manufacturing: A feedstock perspective. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142311.	2.6	5
3	Bimetal printing of high entropy alloy/metallic glass by laser powder bed fusion additive manufacturing. <i>Intermetallics</i> , 2022, 141, 107430.	1.8	10
4	Flexible pressure sensors via engineering microstructures for wearable human-machine interaction and health monitoring applications. <i>IScience</i> , 2022, 25, 104148.	1.9	58
5	Regulation of ferric iron vacancy for Prussian blue analogue cathode to realize high-performance potassium ion storage. <i>Nano Energy</i> , 2022, 98, 107243.	8.2	37
6	Design of reduced graphene oxide coating carbon sub-microspheres hierarchical nanostructure for ultra-stable potassium storage performance. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 858-865.	5.0	3
7	From first to second order nonequilibrium phase transition in crystal-amorphous interface: Effects of spatial and kinetic constraints. <i>Journal of Alloys and Compounds</i> , 2021, 850, 156841.	2.8	3
8	Crystal-melt coexistence in FCC and BCC metals: A molecular-dynamics study of crystal-melt interface free energies. <i>Materialia</i> , 2021, 15, 100962.	1.3	7
9	Crystal-melt interface kinetic behaviors of iron. <i>AIP Advances</i> , 2021, 11, 035241.	0.6	4
10	Construction of multiple interfaces and dielectric/magnetic heterostructures in electromagnetic wave absorbers with enhanced absorption performance: A review. <i>Journal of Materiomics</i> , 2021, 7, 1233-1263.	2.8	94
11	Ultra-Stable Potassium Ion Storage of Nitrogen-Doped Carbon Nanofiber Derived from Bacterial Cellulose. <i>Nanomaterials</i> , 2021, 11, 1130.	1.9	9
12	Improving rechargeability of Prussian blue cathode by graphene as conductive agent for sodium ion batteries. <i>Surfaces and Interfaces</i> , 2021, 23, 100911.	1.5	9
13	Multilayer Double-Sided Microstructured Flexible Iontronic Pressure Sensor with a Record-wide Linear Working Range. <i>ACS Sensors</i> , 2021, 6, 1785-1795.	4.0	56
14	Transparent, Conductive Hydrogels with High Mechanical Strength and Toughness. <i>Polymers</i> , 2021, 13, 2004.	2.0	13
15	Lightweight high-performance carbon-polymer nanocomposites for electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 145, 106376.	3.8	126
16	Crystal-melt coexistence in fcc and bcc metals: a molecular-dynamics study of kinetic coefficients. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021, 29, 065016.	0.8	10
17	Robust Conductive Hydrogels with Ultrafast Self-Recovery and Nearly Zero Response Hysteresis for Epidermal Sensors. <i>Nanomaterials</i> , 2021, 11, 1854.	1.9	7
18	Re-oxidation reconstruction process of solid electrolyte interphase layer derived from highly active anion for potassium-ion batteries. <i>Nano Energy</i> , 2021, 87, 106150.	8.2	31

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19	Bismuth oxychloride anchoring on graphene nanosheets as anode with a high relative energy density for potassium ion battery. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 857-862.	5.0	13
20	Grain refinement and crack inhibition of hard-to-weld Inconel 738 alloy by altering the scanning strategy during selective laser melting. <i>Materials and Design</i> , 2021, 209, 109940.	3.3	67
21	Phytic acid-induced nitrogen configuration adjustment of active nitrogen-rich carbon nanosheets for high-performance potassium-ion storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25445-25452.	5.2	18
22	Self-Healing and Flexible Porous Nickel/Polyurethane Composite Based on Multihealing Systems and Applications. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100299.	1.1	5
23	Cost-affordable, biomedical Ti-5Fe alloy developed using elemental powders and laser in-situ alloying additive manufacturing. <i>Materials Characterization</i> , 2021, 182, 111526.	1.9	12
24	Microstructure and mechanical properties of Al-12Si and Al-3.5Cu-1.5Mg-1Si bimetal fabricated by selective laser melting. <i>Journal of Materials Science and Technology</i> , 2020, 36, 18-26.	5.6	42
25	Effects of Micron/Submicron TiC on Additively Manufactured AlSi10Mg: A Comprehensive Study from Computer Simulation to Mechanical and Microstructural Analysis. <i>Jom</i> , 2020, 72, 3693-3704.	0.9	11
26	Fast rejuvenation in bulk metallic glass induced by ultrasonic vibration precompression. <i>Intermetallics</i> , 2020, 118, 106687.	1.8	21
27	Development of one-dimensional periodic packing in metallic glass spheres. <i>Scripta Materialia</i> , 2020, 177, 132-136.	2.6	6
28	K ⁺ Ion Storage Enhancement in Sb ₂ O ₃ /Reduced Graphene Oxide Using Ether-Based Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 1903455.	10.2	113
29	Machinability and Surface Generation of Pd ₄₀ Ni ₁₀ Cu ₃₀ P ₂₀ Bulk Metallic Glass in Single-Point Diamond Turning. <i>Micromachines</i> , 2020, 11, 4.	1.4	16
30	A High-Performance Flexible Pressure Sensor Realized by Overhanging Cobweb-like Structure on a Micropost Array. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48938-48947.	4.0	55
31	Selective laser melting additive manufacturing of 7xxx series Al-Zn-Mg-Cu alloy: Cracking elimination by co-incorporation of Si and TiB ₂ . <i>Additive Manufacturing</i> , 2020, 36, 101458.	1.7	52
32	Two-Dimensional Black Phosphorus Nanomaterials: Emerging Advances in Electrochemical Energy Storage Science. <i>Nano-Micro Letters</i> , 2020, 12, 179.	14.4	82
33	The brittleness of post-treatment of 3D printed Zr-based metallic glasses in supercooled liquid state. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 782, 139259.	2.6	16
34	Giant magnetocaloric effect in nanostructured Fe-Co-P amorphous alloys enabled through pulse electrodeposition. <i>Nanotechnology</i> , 2020, 31, 385704.	1.3	11
35	Electronic and transport properties of zigzag phosphorene nanoribbons with nonmetallic atom terminations. <i>RSC Advances</i> , 2020, 10, 1400-1409.	1.7	7
36	Selective laser melting helps fabricate record-large bulk metallic glass: Experiments, simulation and demonstrative part. <i>Journal of Alloys and Compounds</i> , 2019, 808, 151731.	2.8	29

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37	Selective laser melting of the hard-to-weld IN738LC superalloy: Efforts to mitigate defects and the resultant microstructural and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019, 807, 151662.	2.8	64
38	Vertical GaN-on-GaN PIN diodes fabricated on free-standing GaN wafer using an ammonothermal method. <i>Journal of Alloys and Compounds</i> , 2019, 804, 435-440.	2.8	13
39	Theoretical strength and prediction of structural defects in metallic glasses. <i>Physical Review B</i> , 2019, 100, .	1.1	1
40	Light-weight and low-cost electromagnetic wave absorbers with high performances based on biomass-derived reduced graphene oxides. <i>Nanotechnology</i> , 2019, 30, 445708.	1.3	104
41	A novel arginine bioprobe based on up-conversion fluorescence resonance energy transfer. <i>Analytica Chimica Acta</i> , 2019, 1079, 200-206.	2.6	16
42	Self-Assembly Construction of WS ₂ @rGO Architecture with Green EMI Shielding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26807-26816.	4.0	117
43	Power Law Feature of Structure in Metallic Glasses. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27868-27874.	1.5	4
44	Hydrostatic pressure effect on metallic glasses: A theoretical prediction. <i>Journal of Applied Physics</i> , 2019, 126, 145901.	1.1	5
45	Temperature- and Pressure-Induced Polyamorphic Transitions in AuCuSi Alloy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20342-20350.	1.5	8
46	Spontaneous solid-solid interface melting driven by concentration gradient. <i>Journal of Chemical Physics</i> , 2019, 151, 074501.	1.2	1
47	An electromagnetic wave absorbing material with potential application prospects@WS ₂ nanosheets. <i>Integrated Ferroelectrics</i> , 2019, 200, 108-116.	0.3	11
48	A high-flow, self-filling piezoelectric pump driven by hybrid connected multiple chambers with umbrella-shaped valves. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 126961.	4.0	46
49	The effects of additions of two-dimensional graphitic-C ₃ N ₄ on the negative electro-caloric effects in P(VDF-TrFE) copolymers. <i>RSC Advances</i> , 2019, 9, 15917-15925.	1.7	7
50	Highly effective shielding of electromagnetic waves in MoS ₂ nanosheets synthesized by a hydrothermal method. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 134, 77-82.	1.9	33
51	Lightweight and High-Performance Microwave Absorber Based on 2D WS ₂ @RGO Heterostructures. <i>Nano-Micro Letters</i> , 2019, 11, 38.	14.4	176
52	Controllable synthesis and characterization of tungsten disulfide nanosheets as promising nanomaterials for electronic devices. <i>Ceramics International</i> , 2019, 45, 12443-12448.	2.3	19
53	Pure shear deformation and its induced mechanical responses in metallic glasses. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190486.	1.0	1
54	A Mn Fe based Prussian blue Analogue@Reduced graphene oxide composite as high capacity and superior rate capability anode for lithium-ion batteries. <i>Carbon</i> , 2019, 143, 706-713.	5.4	42

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55	Multilevel Microstructured Flexible Pressure Sensors with Ultrahigh Sensitivity and Ultrawide Pressure Range for Versatile Electronic Skins. <i>Small</i> , 2019, 15, e1804559.	5.2	163
56	Electronic properties of phosphorene nanoribbons with nanoholes. <i>RSC Advances</i> , 2018, 8, 7486-7493.	1.7	12
57	Complementary design of nano-carbon/magnetic microwire hybrid fibers for tunable microwave absorption. <i>Carbon</i> , 2018, 132, 486-494.	5.4	106
58	Magnetic-field-induced dielectric behaviors and magneto-electrical coupling of multiferroic compounds containing cobalt ferrite/barium calcium titanate composite fibers. <i>Journal of Alloys and Compounds</i> , 2018, 740, 1067-1076.	2.8	45
59	Facile synthesis of highly conductive MoS ₂ /graphene nanohybrids with hetero-structures as excellent microwave absorbers. <i>RSC Advances</i> , 2018, 8, 36616-36624.	1.7	15
60	Self-assembly of 2D-metal-organic framework/graphene oxide membranes as highly efficient adsorbents for the removal of Cs ⁺ from aqueous solutions. <i>RSC Advances</i> , 2018, 8, 40813-40822.	1.7	48
61	Editable asymmetric all-solid-state supercapacitors based on high-strength, flexible, and programmable 2D-metal-organic framework/reduced graphene oxide self-assembled papers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20254-20266.	5.2	110
62	High-performance microwave absorption materials based on MoS ₂ -graphene isomorphic hetero-structures. <i>Journal of Alloys and Compounds</i> , 2018, 758, 62-71.	2.8	77
63	Highly efficient microwave absorption properties and broadened absorption bandwidth of MoS ₂ -iron oxide hybrids and MoS ₂ -based reduced graphene oxide hybrids with Hetero-structures. <i>Applied Surface Science</i> , 2018, 462, 872-882.	3.1	90
64	Understanding the effects of Poisson's ratio on the shear band behavior and plasticity of metallic glasses. <i>Journal of Materials Science</i> , 2017, 52, 6789-6799.	1.7	14
65	Effective nondestructive evaluations on UHMWPE/Recycled-PA6 blends using FTIR imaging and dynamic mechanical analysis. <i>Polymer Testing</i> , 2017, 59, 371-376.	2.3	36
66	Layered tetragonal zinc chalcogenides for energy-related applications: from photocatalysts for water splitting to cathode materials for Li-ion batteries. <i>Nanoscale</i> , 2017, 9, 17303-17311.	2.8	29
67	Mechanical heterogeneity and its relation with glass-forming ability in Zr-Cu and Zr-Cu-Al metallic glasses. <i>Intermetallics</i> , 2017, 90, 159-163.	1.8	9
68	Size effect on atomic structure in low-dimensional Cu-Zr amorphous systems. <i>Scientific Reports</i> , 2017, 7, 7291.	1.6	11
69	Structural stability of high entropy alloys under pressure and temperature. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	44
70	Exceptionally High Negative Electro-Caloric Effects of Poly(VDF-co-TrFE) Based Nanocomposites Tuned by the Geometries of Barium Titanate Nanofillers. <i>Polymers</i> , 2017, 9, 315.	2.0	13
71	Serration Behavior of a Zr-Based Metallic Glass Under Different Constrained Loading Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5395-5400.	1.1	13
72	Mechanisms of polarization switching in graphene oxides and poly(vinylidene fluoride)-graphene oxide films. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EP04.	0.8	5

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73	Serration behaviours in metallic glasses with different plasticity. Philosophical Magazine, 2016, 96, 2243-2255.	0.7	23
74	Co _x Ni _{100-x} nanoparticles encapsulated by curved graphite layers: controlled in situ metal-catalytic preparation and broadband microwave absorption. Nanoscale, 2015, 7, 17312-17319.	2.8	104
75	Third-order elastic constants of ZnO and size effect in ZnO nanowires. Journal of Applied Physics, 2014, 115, 213516.	1.1	17
76	Symmetry breaking and other nonlinear elastic responses of metallic glasses subject to uniaxial loading. Journal of Applied Physics, 2013, 113, 213515.	1.1	11
77	Estimate of the Maximum Strength of Metallic Glasses from Finite Deformation Theory. Physical Review Letters, 2013, 111, 065507.	2.9	11
78	Mechanical and magnetocaloric properties of Gd-based amorphous microwires fabricated by melt-extraction. Acta Materialia, 2013, 61, 1284-1293.	3.8	109
79	Nonlinear stress-strain relations for crystalline solids in initially deformed state. Journal of Applied Physics, 2012, 112, .	1.1	1
80	Nonlinear theoretical formulation of elastic stability criterion of crystal solids. Physical Review B, 2012, 85, .	1.1	13
81	Unifying the criteria of elastic stability of solids. Journal of Physics Condensed Matter, 2012, 24, 245402.	0.7	14
82	The ideal strength of gold under uniaxial stress: an <i>ab initio</i> study. Journal of Physics Condensed Matter, 2010, 22, 295405.	0.7	25
83	The elastic stability, bifurcation and ideal strength of gold under hydrostatic stress: an <i>ab initio</i> calculation. Journal of Physics Condensed Matter, 2009, 21, 455401.	0.7	15
84	<i>Ab initio</i> calculations of second-, third-, and fourth-order elastic constants for single crystals. Physical Review B, 2009, 79, .	1.1	117