

Hao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

3,032
citations

172207

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174990

52
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84
all docs

84
docs citations

84
times ranked

3022
citing authors

#	ARTICLE	IF	CITATIONS
1	Lightweight and High-Performance Microwave Absorber Based on 2D WS ₂ @rGO Heterostructures. Nano-Micro Letters, 2019, 11, 38.	14.4	176
2	Multilevel Microstructured Flexible Pressure Sensors with Ultrahigh Sensitivity and Ultrawide Pressure Range for Versatile Electronic Skins. Small, 2019, 15, e1804559.	5.2	163
3	Lightweight high-performance carbon-polymer nanocomposites for electromagnetic interference shielding. Composites Part A: Applied Science and Manufacturing, 2021, 145, 106376.	3.8	126
4	Ab initio calculations of second-, third-, and fourth-order elastic constants for single crystals. Physical Review B, 2009, 79, .	1.1	117
5	Self-Assembly Construction of WS ₂ @rGO Architecture with Green EMI Shielding. ACS Applied Materials & Interfaces, 2019, 11, 26807-26816.	4.0	117
6	K ⁺ Ion Storage Enhancement in Sb ₂ O ₃ /Reduced Graphene Oxide Using Ether-Based Electrolyte. Advanced Energy Materials, 2020, 10, 1903455.	10.2	113
7	Editable asymmetric all-solid-state supercapacitors based on high-strength, flexible, and programmable 2D-metal-organic framework/reduced graphene oxide self-assembled papers. Journal of Materials Chemistry A, 2018, 6, 20254-20266.	5.2	110
8	Mechanical and magnetocaloric properties of Gd-based amorphous microwires fabricated by melt-extraction. Acta Materialia, 2013, 61, 1284-1293.	3.8	109
9	Complementary design of nano-carbon/magnetic microwire hybrid fibers for tunable microwave absorption. Carbon, 2018, 132, 486-494.	5.4	106
10	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
11	Light-weight and low-cost electromagnetic wave absorbers with high performances based on biomass-derived reduced graphene oxides. Nanotechnology, 2019, 30, 445708.	1.3	104
12	Construction of multiple interfaces and dielectric/magnetic heterostructures in electromagnetic wave absorbers with enhanced absorption performance: A review. Journal of Materiomics, 2021, 7, 1233-1263.	2.8	94
13	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. Applied Surface Science, 2018, 462, 872-882.	3.1	90
14	Two-Dimensional Black Phosphorus Nanomaterials: Emerging Advances in Electrochemical Energy Storage Science. Nano-Micro Letters, 2020, 12, 179.	14.4	82
15	High-performance microwave absorption materials based on MoS ₂ -graphene isomorphic hetero-structures. Journal of Alloys and Compounds, 2018, 758, 62-71.	2.8	77
16	Grain refinement and crack inhibition of hard-to-weld Inconel 738 alloy by altering the scanning strategy during selective laser melting. Materials and Design, 2021, 209, 109940.	3.3	67
17	Selective laser melting of the hard-to-weld IN738LC superalloy: Efforts to mitigate defects and the resultant microstructural and mechanical properties. Journal of Alloys and Compounds, 2019, 807, 151662.	2.8	64
18	Flexible pressure sensors via engineering microstructures for wearable human-machine interaction and health monitoring applications. IScience, 2022, 25, 104148.	1.9	58

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19	Multilayer Double-Sided Microstructured Flexible Iontronic Pressure Sensor with a Record-wide Linear Working Range. ACS Sensors, 2021, 6, 1785-1795.	4.0	56
20	A High-Performance Flexible Pressure Sensor Realized by Overhanging Cobweb-like Structure on a Micropost Array. ACS Applied Materials & Interfaces, 2020, 12, 48938-48947.	4.0	55
21	Selective laser melting additive manufacturing of 7xxx series Al-Zn-Mg-Cu alloy: Cracking elimination by co-incorporation of Si and TiB ₂ . Additive Manufacturing, 2020, 36, 101458.	1.7	52
22	Self-assembly of 2D-metal-organic framework/graphene oxide membranes as highly efficient adsorbents for the removal of Cs ⁺ from aqueous solutions. RSC Advances, 2018, 8, 40813-40822.	1.7	48
23	A high-flow, self-filling piezoelectric pump driven by hybrid connected multiple chambers with umbrella-shaped valves. Sensors and Actuators B: Chemical, 2019, 301, 126961.	4.0	46
24	Magnetic-field-induced dielectric behaviors and magneto-electrical coupling of multiferroic compounds containing cobalt ferrite/barium calcium titanate composite fibers. Journal of Alloys and Compounds, 2018, 740, 1067-1076.	2.8	45
25	Structural stability of high entropy alloys under pressure and temperature. Journal of Applied Physics, 2017, 121, .	1.1	44
26	A Mn Fe based Prussian blue Analogue@Reduced graphene oxide composite as high capacity and superior rate capability anode for lithium-ion batteries. Carbon, 2019, 143, 706-713.	5.4	42
27	Microstructure and mechanical properties of Al-12Si and Al-3.5Cu-1.5Mg-1Si bimetal fabricated by selective laser melting. Journal of Materials Science and Technology, 2020, 36, 18-26.	5.6	42
28	Regulation of ferric iron vacancy for Prussian blue analogue cathode to realize high-performance potassium ion storage. Nano Energy, 2022, 98, 107243.	8.2	37
29	Effective nondestructive evaluations on UHMWPE/Recycled-PA6 blends using FTIR imaging and dynamic mechanical analysis. Polymer Testing, 2017, 59, 371-376.	2.3	36
30	Highly effective shielding of electromagnetic waves in MoS ₂ nanosheets synthesized by a hydrothermal method. Journal of Physics and Chemistry of Solids, 2019, 134, 77-82.	1.9	33
31	Re-oxidation reconstruction process of solid electrolyte interphase layer derived from highly active anion for potassium-ion batteries. Nano Energy, 2021, 87, 106150.	8.2	31
32	Layered tetragonal zinc chalcogenides for energy-related applications: from photocatalysts for water splitting to cathode materials for Li-ion batteries. Nanoscale, 2017, 9, 17303-17311.	2.8	29
33	Selective laser melting helps fabricate record-large bulk metallic glass: Experiments, simulation and demonstrative part. Journal of Alloys and Compounds, 2019, 808, 151731.	2.8	29
34	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
35	Serration behaviours in metallic glasses with different plasticity. Philosophical Magazine, 2016, 96, 2243-2255.	0.7	23
36	Fast rejuvenation in bulk metallic glass induced by ultrasonic vibration precompression. Intermetallics, 2020, 118, 106687.	1.8	21

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37	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
38	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
39	Third-order elastic constants of ZnO and size effect in ZnO nanowires. <i>Journal of Applied Physics</i> , 2014, 115, 213516.	1.1	17
40	A novel arginine bioprobe based on up-conversion fluorescence resonance energy transfer. <i>Analytica Chimica Acta</i> , 2019, 1079, 200-206.	2.6	16
41	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
42	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
43	The elastic stability, bifurcation and ideal strength of gold under hydrostatic stress: an <i>ab initio</i> calculation. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 455401.	0.7	15
44	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
45	Unifying the criteria of elastic stability of solids. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 245402.	0.7	14
46	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
47	Nonlinear theoretical formulation of elastic stability criterion of crystal solids. <i>Physical Review B</i> , 2012, 85, .	1.1	13
48	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
49	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
50	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
51	Transparent, Conductive Hydrogels with High Mechanical Strength and Toughness. <i>Polymers</i> , 2021, 13, 2004.	2.0	13
52	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
53	Electronic properties of phosphorene nanoribbons with nanoholes. <i>RSC Advances</i> , 2018, 8, 7486-7493.	1.7	12
54	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

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55	Symmetry breaking and other nonlinear elastic responses of metallic glasses subject to uniaxial loading. <i>Journal of Applied Physics</i> , 2013, 113, 213515.	1.1	11
56	Estimate of the Maximum Strength of Metallic Glasses from Finite Deformation Theory. <i>Physical Review Letters</i> , 2013, 111, 065507.	2.9	11
57	Size effect on atomic structure in low-dimensional Cu-Zr amorphous systems. <i>Scientific Reports</i> , 2017, 7, 7291.	1.6	11
58	An electromagnetic wave absorbing material with potential application prospects in WS ₂ nanosheets. <i>Integrated Ferroelectrics</i> , 2019, 200, 108-116.	0.3	11
59	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
60	Giant magnetocaloric effect in nanostructured Fe-Co-P amorphous alloys enabled through pulse electrodeposition. <i>Nanotechnology</i> , 2020, 31, 385704.	1.3	11
61	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
62	Bimetal printing of high entropy alloy/metallic glass by laser powder bed fusion additive manufacturing. <i>Intermetallics</i> , 2022, 141, 107430.	1.8	10
63	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
64	Ultra-Stable Potassium Ion Storage of Nitrogen-Doped Carbon Nanofiber Derived from Bacterial Cellulose. <i>Nanomaterials</i> , 2021, 11, 1130.	1.9	9
65	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
66	Temperature- and Pressure-Induced Polyamorphic Transitions in AuCuSi Alloy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20342-20350.	1.5	8
67	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
68	Electronic and transport properties of zigzag phosphorene nanoribbons with nonmetallic atom terminations. <i>RSC Advances</i> , 2020, 10, 1400-1409.	1.7	7
69	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
70	Robust Conductive Hydrogels with Ultrafast Self-Recovery and Nearly Zero Response Hysteresis for Epidermal Sensors. <i>Nanomaterials</i> , 2021, 11, 1854.	1.9	7
71	Development of one-dimensional periodic packing in metallic glass spheres. <i>Scripta Materialia</i> , 2020, 177, 132-136.	2.6	6
72	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

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73	Mechanisms of polarization switching in graphene oxides and poly(vinylidene fluoride)â€“graphene oxide films. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EP04.	0.8	5
74	Hydrostatic pressure effect on metallic glasses: A theoretical prediction. <i>Journal of Applied Physics</i> , 2019, 126, 145901.	1.1	5
75	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
76	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
77	Powerâ€“Law Feature of Structure in Metallic Glasses. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27868-27874.	1.5	4
78	Crystalâ€“melt interface kinetic behaviors of iron. <i>AIP Advances</i> , 2021, 11, 035241.	0.6	4
79	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
80	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
81	Nonlinear stress-strain relations for crystalline solids in initially deformed state. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	1
82	Theoretical strength and prediction of structural defects in metallic glasses. <i>Physical Review B</i> , 2019, 100, .	1.1	1
83	Spontaneous solid-solid interface melting driven by concentration gradient. <i>Journal of Chemical Physics</i> , 2019, 151, 074501.	1.2	1
84	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