Hui Wang

List of Publications by Year in descending order

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218381 102304 4,425 77 26 66 h-index citations g-index papers 77 77 77 6748 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Fe–N–C electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells. Nature Catalysis, 2019, 2, 259-268.	16.1	958
2	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. Nature Communications, 2016, 7, 12876.	5.8	568
3	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. Nature Communications, 2017, 8, 1509.	5 . 8	361
4	A Highly Stretchable Transparent Selfâ€Powered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. Advanced Materials, 2018, 30, e1706738.	11.1	315
5	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. Advanced Materials, 2017, 29, 1604607.	11.1	224
6	High-performance lead-free piezoelectrics with local structural heterogeneity. Energy and Environmental Science, 2018, 11, 3531-3539.	15.6	188
7	A piezoelectric, strain-controlled antiferromagnetic memory insensitive to magnetic fields. Nature Nanotechnology, 2019, 14, 131-136.	15.6	150
8	Microstructural tailoring and improvement of mechanical properties in CuZr-based bulk metallic glass composites. Acta Materialia, 2012, 60, 3128-3139.	3.8	146
9	Piezoâ€Phototronic Effect Modulated Deep UV Photodetector Based on ZnOâ€Ga ₂ O ₃ Heterojuction Microwire. Advanced Functional Materials, 2018, 28, 1706379.	7.8	126
10	Giant heterogeneous magnetostriction in Fe–Ga alloys: Effect of trace element doping. Acta Materialia, 2016, 109, 177-186.	3.8	112
11	Large and Ultrastable Allâ€Inorganic CsPbBr ₃ Monocrystalline Films: Lowâ€Temperature Growth and Application for Highâ€Performance Photodetectors. Advanced Materials, 2018, 30, e1802110.	11.1	94
12	Interaction of Trace Rareâ€Earth Dopants and Nanoheterogeneities Induces Giant Magnetostriction in Feâ€Ga Alloys. Advanced Functional Materials, 2018, 28, 1800858.	7.8	64
13	High precision epidermal radio frequency antenna via nanofiber network for wireless stretchable multifunction electronics. Nature Communications, 2020, 11, 5629.	5.8	48
14	Tailoring the heterogeneous magnetostriction in Fe-Co alloys. Journal of Alloys and Compounds, 2017, 699, 200-209.	2.8	41
15	Characteristics of giant piezoelectricity around the rhombohedral-tetragonal phase boundary in (K,Na)NbO ₃ -based ceramics with different additives. Journal of Materials Chemistry A, 2015, 3, 15951-15961.	5.2	40
16	Initial Irreversible Losses and Enhanced Highâ€Temperature Performance of Rareâ€Earth Permanent Magnets. Advanced Functional Materials, 2019, 29, 1900690.	7.8	40
17	Effects of solution temperature and Cu content on the properties and microstructure of 2:17-type SmCo magnets. Journal of Alloys and Compounds, 2018, 735, 1971-1976.	2.8	37
18	Dispersible SmCo ₅ nanoparticles with huge coercivity. Nanoscale, 2019, 11, 16962-16967.	2.8	37

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19	Domain structure of adaptive orthorhombic phase in [110]-poled Pb(Mg1∕3Nb2∕3)O3–30.5%PbTiO3 single crystal. Applied Physics Letters, 2008, 92, 132906.	1.5	36
20	High electrocatalytic hydrogen evolution activity on a coupled Ru and CoO hybrid electrocatalyst. Journal of Energy Chemistry, 2019, 37, 143-147.	7.1	36
21	Ferroelectricity-induced performance enhancement of V-doped ZnO/Si photodetector by direct energy band modulation. Nano Energy, 2019, 65, 104046.	8.2	36
22	Optimization of mechanical properties of bulk metallic glasses by residual stress adjustment using laser surface melting. Scripta Materialia, 2012, 66, 1057-1060.	2.6	32
23	The formation mechanism of 1:5H phase in Sm(Co, Fe, Cu, Zr)z melt-spun ribbons with high iron content. Journal of Magnetism and Magnetic Materials, 2020, 496, 165939.	1.0	30
24	Hierarchical Domain Structure of Adaptive MBPhase in Pb(Mg1/3Nb2/3)O3-32%PbTiO3Single Crystal. Journal of the American Ceramic Society, 2008, 91, 2382-2384.	1.9	29
25	Investigating enhanced mechanical properties in dual-phase Fe-Ga-Tb alloys. Scientific Reports, 2016, 6, 34258.	1.6	27
26	Correlation of microstructure and magnetic properties in Sm(CobalFe0.1Cu0.1Zr0.033)6.93 magnets solution-treated at different temperatures. Rare Metals, 2019, 38, 20-28.	3.6	27
27	Nitrogen-doping effect on glass formation and primary phase selection in Cu–Zr–Al alloys. Journal of Alloys and Compounds, 2011, 509, 5033-5037.	2.8	26
28	Dislocation network with pair-coupling structure in $\{111\}$ \hat{I}^3/\hat{I}^3 $\hat{a} \in \mathbb{Z}$ interface of Ni-based single crystal superalloy. Scientific Reports, 2016, 6, 29941.	1.6	26
29	Exploring structural origin of the enhanced magnetostriction in Tb-doped Fe83Ga17 ribbons: Tuning Tb solubility. Scripta Materialia, 2018, 150, 101-105.	2.6	26
30	Microstructure investigation on magnetostrictive Fe100-xGax and (Fe100-xGax)99.8Tb0.2 alloys for 19 ≤ x ≤29. Intermetallics, 2019, 115, 106628.	1.8	25
31	Formation and mechanical properties of Ni-free Zr-based bulk metallic glasses. Journal of Alloys and Compounds, 2011, 509, S175-S178.	2.8	24
32	Atomic, electronic and magnetic properties of Fe80P11C9 amorphous alloy: A first-principles study. Physica B: Condensed Matter, 2013, 411, 161-165.	1.3	23
33	Large-sized CuZr-based Bulk Metallic Glass Composite with Enhanced Mechanical Properties. Journal of Materials Science and Technology, 2014, 30, 590-594.	5.6	23
34	Enhanced Hydrogen Storage Properties of Mg–Ti–V Nanocomposite at Moderate Temperatures. Journal of Physical Chemistry C, 2014, 118, 22419-22425.	1.5	22
35	Ultrathin ternary semiconductor TlGaSe ₂ phototransistors with broad-spectral response. 2D Materials, 2017, 4, 035021.	2.0	22
36	Grain boundary optimization induced substantial squareness enhancement and high performance in iron-rich Sm-Co-Fe-Cu-Zr magnets. Journal of Materials Science and Technology, 2021, 85, 56-61.	5.6	22

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37	Making Nanostructured Ceramics from Micrometerâ€Sized Powders via Grain Refinement During SPS Sintering. Journal of the American Ceramic Society, 2008, 91, 2475-2480.	1.9	20
38	FePt/Co core/shell nanoparticle-based anisotropic nanocomposites and their exchange spring behavior. Nanoscale, 2018, 10, 4061-4067.	2.8	20
39	Local structure origin of higher glass forming ability in Ta doped Co65B35 amorphous alloy. Journal of Applied Physics, 2012, 112, .	1.1	19
40	Effect of ball milling process on coercivity of nanocrystalline SmCo 5 magnets. Journal of Magnetism and Magnetic Materials, 2018, 446, 200-205.	1.0	18
41	Improved kinetics of nanoparticle-decorated Mg-Ti-Zr nanocomposite for hydrogen storage at moderate temperatures. Materials Chemistry and Physics, 2018, 206, 21-28.	2.0	17
42	Synthesis of SmCo5 nanoparticles with small size and high performance by hydrogenation technique. Rare Metals, 2018, 37, 1021-1026.	3. 6	17
43	Spray formed Al-based amorphous matrix nanocomposite plate. Journal of Alloys and Compounds, 2011, 509, L169-L173.	2.8	16
44	Giant magnetostriction in nanoheterogeneous Fe-Al alloys. Applied Physics Letters, 2018, 112, .	1.5	16
45	Enhanced Fieldâ€Induced Strain in the Textured Leadâ€Free Ceramic. Journal of the American Ceramic Society, 2016, 99, 3985-3992.	1.9	15
46	Nonvolatile Electric Control of the Anomalous Hall Effect in an Ultrathin Magnetic Metal. Advanced Electronic Materials, 2020, 6, 1901084.	2.6	15
47	Virus-mediated FCC iron nanoparticle induced synthesis of uranium dioxide nanocrystals. Nanotechnology, 2008, 19, 115608.	1.3	14
48	Effect of cooling rate on microstructure and mechanical properties of rapidly solidified Al-based bulk alloys. Journal of Alloys and Compounds, 2010, 504, S117-S122.	2.8	14
49	Dispersible and manipulable magnetic L10-FePt nanoparticles. Nanoscale, 2020, 12, 7843-7848.	2.8	14
50	Multiscale influence of trace Tb addition on the magnetostriction and ductility of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>âŒ@</mml:mo><mml:mn>100 oriented directionally solidified Fe-Ga crystals. Physical Review Materials, 2019, 3, .</mml:mn></mml:mrow></mml:math>	O <td>><nnumanl:mo>â0</nnumanl:mo></td>	> <nnumanl:mo>â0</nnumanl:mo>
51	Influence of laser surface melting on glass formation and tribological behaviors of Zr ₅₅ Al ₁₀ Ni ₅ Cu ₃₀ alloy. Journal of Materials Research, 2011, 26, 2642-2652.	1.2	13
52	Hierarchical ultrafine-grained/nanocystalline Al-based bulk alloy with high strength and large plasticity. Intermetallics, 2012, 23, 199-203.	1.8	12
53	Bulk metallic glass composites ductilized by core–shell structured dual crystalline phases through controlled inoculation. Intermetallics, 2014, 45, 24-28.	1.8	11
54	Hierarchical ultrafine-grained network mediated high strength and large plasticity in an Al-based alloy. Materials Letters, 2014, 124, 28-31.	1.3	10

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55	Direct TEM Observation of Phase Separation and Crystallization in Cu45Zr45Ag10 Metallic Glass. Acta Metallurgica Sinica (English Letters), 2016, 29, 538-545.	1.5	9
56	Bi deficiency-tuned functionality in multiferroic Bi1-ÎFe0.95Mn0.05O3 films. Scientific Reports, 2016, 6, 19385.	1.6	9
57	Correlation between ordered solid solution and cellular structure of Sm2Co17 type magnets with high iron content. Journal of Magnetism and Magnetic Materials, 2021, 519, 167477.	1.0	9
58	Chemical synthesis and characterization of SmCo5/Co magnetic nanocomposite particles. Rare Metals, 2021, 40, 1224-1231.	3.6	8
59	Influence of the final heat treatment temperature on the magnetic property losses of Sm(Co,Fe,Cu,Zr)z high temperature magnets. Journal of Magnetism and Magnetic Materials, 2021, 528, 167763.	1.0	7
60	Quantitative analysis of pinning-hardened intrinsic coercivity of Sm(CoFeCuZr)z (zÂ=Â7.0–7.8) high-temperature permanent magnets. Journal of Alloys and Compounds, 2021, 872, 159622.	2.8	7
61	Microstructure and mechanical properties of a spray-formed Ti-based metallic glass former alloy. Journal of Alloys and Compounds, 2012, 512, 241-245.	2.8	6
62	Stable Stacking Faults Bounded by Frank Partial Dislocations in Al7075 Formed through Precipitate and Dislocation Interactions. Crystals, 2017, 7, 375.	1.0	6
63	Low remanence temperature coefficient Sm1â^'xErx(Co, Fe, Cu, Zr)z magnets operating up to 400°C. Rare Metals, 2020, 39, 70-75.	3.6	6
64	c-axis textured La2CuO4thin films prepared by NaClO oxidation: I. Superconducting and structural properties. Superconductor Science and Technology, 2004, 17, 1046-1050.	1.8	5
65	Preparation of low remanence temperature coefficient (RT – 300 °C) SmDy (Co, Fe, Cu, Zr)z magnets and molecular field analysis. Journal of Magnetism and Magnetic Materials, 2018, 466, 38-43.	1.0	5
66	Silicide coating stabilized high temperature performance and oxidation resistance mechanism of 2:17-type SmCo permanent magnets. Corrosion Science, 2020, 173, 108752.	3.0	5
67	Role of columnar grain size in magnetization of La0.8MnO3 thin films grown by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2005, 81, 1423-1426.	1.1	4
68	<i>In situ</i> electrical characterization of tapered InAs nanowires in a transmission electron microscope with ohmic contacts. Nanotechnology, 2015, 26, 155703.	1.3	4
69	First-principles study of site preferences for Fe in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Sm</mml:mi><mml:msub><mml:mpermanent .<="" 2020,="" 4,="" magnets.="" materials,="" physical="" review="" td=""><td>ırovø> <mı< td=""><td>nl#mo>(</td></mı<></td></mml:mpermanent></mml:msub></mml:mrow></mml:math>	ır o vø> <mı< td=""><td>nl#mo>(</td></mı<>	nl#mo>(
70	Local structure of Co55Ta10B35 amorphous alloy investigated by ab-initio molecular dynamics. Science China: Physics, Mechanics and Astronomy, 2013, 56, 904-909.	2.0	3
71	Fabrication of nanoporous silver by de-alloying Cu-Zr-Ag amorphous alloys. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 835-843.	2.4	3
72	c-axis textured La2CuO4thin films prepared by NaClO oxidation: II. Electron microscopic characterization. Superconductor Science and Technology, 2004, 17, 1051-1054.	1.8	2

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73	Fast Preparation of Ultrathin FIB Lamellas for MEMs-Based <i>In Situ</i> TEM Experiments. Materials Science Forum, 2016, 850, 722-727.	0.3	2
74	Microstructure and creep properties of Ni-based single-crystal superalloys with Mo/Al addition at 760°C/850ÂMPa. Rare Metals, 2018, , 1.	3.6	2
75	Morphology evolution of SmCox permanent magnetic nanoparticles. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	2
76	Effect of columnar structures on resistivity behavior of epitaxial La0.8MnO3 thin films. Journal of Applied Physics, 2005, 97, 086104.	1.1	1
77	Nano-scale lithography and in-situ electrical measurements based on the micro-chips in a transmission electron microscope. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 248105.	0.2	0