

Hong Wu

List of Publications by Year in descending order

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113
papers

3,090
citations

126708

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115
all docs

115
docs citations

115
times ranked

3443
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergetic Enhancement of Mechanical Properties for Silk Fibers by a Green Feeding Approach with Nano-hydroxyapatite/collagen Composite Additive. <i>Journal of Natural Fibers</i> , 2022, 19, 5310-5320.	1.7	3
2	Engineering nano-structures with controllable dimensional features on micro-topographical titanium surfaces to modulate the activation degree of M1 macrophages and their osteogenic potential. <i>Journal of Materials Science and Technology</i> , 2022, 96, 167-178.	5.6	12
3	Mechanical properties and corrosion resistance of powder metallurgical Mg-Zn-Ca/Fe bulk metal glass composites for biomedical application. <i>Journal of Materials Science and Technology</i> , 2022, 103, 73-83.	5.6	25
4	Microstructure and tribological behaviors of FeCoCrNiMoSix high-entropy alloy coatings prepared by laser cladding. <i>Surface and Coatings Technology</i> , 2022, 432, 128009.	2.2	20
5	A novel FeCrMoCSi metallic glass with excellent corrosion resistance and in vitro cellular response for biomedical applications. <i>Journal of Materials Science</i> , 2022, 57, 618-632.	1.7	4
6	Wear Estimation of DLC Films Based on Energy-Dissipation Analysis: A Molecular Dynamics Study. <i>Materials</i> , 2022, 15, 893.	1.3	2
7	Study on the microstructure and wear behavior of Mg-containing Al ¹² Sn ⁴ Si alloys. <i>Journal of Materials Research and Technology</i> , 2022, 18, 338-351.	2.6	9
8	Sequential activation of M1 and M2 phenotypes in macrophages by Mg degradation from Ti-Mg alloy for enhanced osteogenesis. <i>Biomaterials Research</i> , 2022, 26, 17.	3.2	19
9	Photoactivation-triggered in situ self-supplied H ₂ O ₂ for boosting chemodynamic therapy via layered double Hydroxide-mediated catalytic cascade reaction. <i>Chemical Engineering Journal</i> , 2022, 446, 137310.	6.6	11
10	Microstructure, mechanical properties and biocompatibility of laser metal deposited Ti ²³ Nb coatings on a NiTi substrate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143402.	2.6	7
11	Stimulation of in vitro and in vivo osteogenesis by Ti-Mg alloys with the sustained-release function of magnesium ions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111360.	2.5	37
12	Using MgO nanoparticles as a potential platform to precisely load and steadily release Ag ions for enhanced osteogenesis and bacterial killing. <i>Materials Science and Engineering C</i> , 2021, 119, 111399.	3.8	13
13	Galvanic replacement reaction for in situ fabrication of litchi-shaped heterogeneous liquid metal-Au nano-composite for radio-photothermal cancer therapy. <i>Bioactive Materials</i> , 2021, 6, 602-612.	8.6	43
14	Gold-iron selenide nanocomposites for amplified tumor oxidative stress-augmented photo-radiotherapy. <i>Biomaterials Science</i> , 2021, 9, 3979-3988.	2.6	15
15	Tannic acid-based metal phenolic networks for bio-applications: a review. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4098-4110.	2.9	118
16	Ferrous ions doped layered double hydroxide: smart 2D nanotheranostic platform with imaging-guided synergistic chemo/photothermal therapy for breast cancer. <i>Biomaterials Science</i> , 2021, 9, 5928-5938.	2.6	17
17	Micro-cracking, microstructure and mechanical properties of Hastelloy-X alloy printed by laser powder bed fusion: As-built, annealed and hot-isostatic pressed. <i>Additive Manufacturing</i> , 2021, 39, 101853.	1.7	16
18	Microstructure and Corrosion Behavior of Ti-Nb Coatings on NiTi Substrate Fabricated by Laser Cladding. <i>Coatings</i> , 2021, 11, 597.	1.2	7

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19	Rate-dependent inhomogeneous creep behavior in metallic glasses. Transactions of Nonferrous Metals Society of China, 2021, 31, 1758-1765.	1.7	5
20	Selective laser melted AlSi10Mg alloy under melting mode transition: Microstructure evolution, nanomechanical behaviors and tensile properties. Journal of Alloys and Compounds, 2021, 873, 159823.	2.8	54
21	The response of macrophages and their osteogenic potential modulated by micro/nano-structured Ti surfaces. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111848.	2.5	18
22	Fe-C micro-alloying effect on properties of Zr53Al11.6Ni11.7Cu23.7 bulk metallic glass. Transactions of Nonferrous Metals Society of China, 2021, 31, 2750-2761.	1.7	4
23	Wear properties of high-manganese steel strengthened with nano-sized V ₂ C precipitates. Wear, 2021, 482-483, 203922.	1.5	8
24	Facile synthesis of multi-functional nano-composites by precise loading of Cu ²⁺ onto MgO nano-particles for enhanced osteoblast differentiation, inhibited osteoclast formation and effective bacterial killing. Materials Science and Engineering C, 2021, 130, 112442.	3.8	8
25	Effects of TiC and residual austenite synergistic strengthening mechanism on impact-abrasive wear behavior of bainite steel. Wear, 2021, 486-487, 204088.	1.5	6
26	Microstructure and properties of FeCoCrNiMoSix high-entropy alloys fabricated by spark plasma sintering. Journal of Alloys and Compounds, 2021, 884, 161070.	2.8	20
27	The design, development, and in vivo performance of intestinal anastomosis ring fabricated by magnesium-zinc-strontium alloy. Materials Science and Engineering C, 2020, 106, 110158.	3.8	12
28	Tribological and biological behaviors of laser clad Ti-based metallic glass composite coatings. Applied Surface Science, 2020, 507, 145104.	3.1	25
29	A good combination of strength and ductility of ultra-coarse-grained Cu-Al alloy with coarse-grained surface layer via pre-torsional treatment. Micron, 2020, 129, 102783.	1.1	13
30	Effect of melting modes on microstructure and tribological properties of selective laser melted AlSi10Mg alloy. Virtual and Physical Prototyping, 2020, 15, 570-582.	5.3	38
31	Effect of volumetric energy density on microstructure and tribological properties of FeCoNiCuAl high-entropy alloy produced by laser powder bed fusion. Virtual and Physical Prototyping, 2020, 15, 543-554.	5.3	26
32	Microstructures and Tribological Properties of TiC Reinforced FeCoNiCuAl High-Entropy Alloy at Normal and Elevated Temperature. Metals, 2020, 10, 387.	1.0	26
33	Evaluating the osteoimmunomodulatory properties of micro-arc oxidized titanium surface at two different biological stages using an optimized in vitro cell culture strategy. Materials Science and Engineering C, 2020, 110, 110722.	3.8	13
34	Experimental study and numerical simulation of dynamic recrystallization for a FGH96 superalloy during isothermal compression. Journal of Materials Research and Technology, 2020, 9, 5090-5104.	2.6	38
35	MgO Nanoparticles Protect against Titanium Particle-Induced Osteolysis in a Mouse Model Because of Their Positive Immunomodulatory Effect. ACS Biomaterials Science and Engineering, 2020, 6, 3005-3014.	2.6	13
36	Microstructure evolution and deformation mechanism of amorphous/crystalline high-entropy-alloy composites. Journal of Materials Science and Technology, 2020, 54, 14-19.	5.6	35

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37	Effect of zinc powder content on tribological behaviors of brake friction materials. Transactions of Nonferrous Metals Society of China, 2020, 30, 3078-3092.	1.7	10
38	Using hierarchical mesoporous Mg-Al LDH as a potential model to precisely load BSA for biological application. Journal of Micromechanics and Molecular Physics, 2020, 05, 2050012.	0.7	6
39	Microstructure and nanomechanical properties of Zr-based bulk metallic glass composites fabricated by laser rapid prototyping. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138306.	2.6	15
40	Activating macrophages for enhanced osteogenic and bactericidal performance by Cu ion release from micro/nano-topographical coating on a titanium substrate. Acta Biomaterialia, 2019, 100, 415-426.	4.1	111
41	Amorphous TiCu-Based Additives for Improving Hydrogen Storage Properties of Magnesium Hydride. ACS Applied Materials & Interfaces, 2019, 11, 38868-38879.	4.0	54
42	Effects of Environmental pH on Macrophage Polarization and Osteoimmunomodulation. ACS Biomaterials Science and Engineering, 2019, 5, 5548-5557.	2.6	39
43	Interface-governed nanometric machining behaviour of Cu/Ag bilayers using molecular dynamics simulation. RSC Advances, 2019, 9, 1341-1353.	1.7	17
44	Rubidium Chloride Targets Jnk/p38-Mediated NF- κ B Activation to Attenuate Osteoclastogenesis and Facilitate Osteoblastogenesis. Frontiers in Pharmacology, 2019, 10, 584.	1.6	18
45	Tuning the mechanical behavior of high-entropy alloys via controlling cooling rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 359-365.	2.6	41
46	Effect of multi-component carbides on the mechanical behavior of a multi-element alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 758, 99-102.	2.6	5
47	Nanoscale amorphization effect on dislocation emission from an elliptical blunt crack tip in deformed nanocrystalline and ultrafine-grained materials. Mechanics of Materials, 2019, 134, 98-105.	1.7	7
48	MPC1 deficiency accelerates lung adenocarcinoma progression through the STAT3 pathway. Cell Death and Disease, 2019, 10, 148.	2.7	21
49	In vitro degradation behavior and cytocompatibility of ZK30/bioactive glass composites fabricated by selective laser melting for biomedical applications. Journal of Alloys and Compounds, 2019, 785, 38-45.	2.8	67
50	Origin of strengthening-softening trade-off in gradient nanostructured body-centred cubic alloys. Journal of Alloys and Compounds, 2019, 775, 270-280.	2.8	12
51	A four-gene signature-derived risk score for glioblastoma: prospects for prognostic and response predictive analyses. Cancer Biology and Medicine, 2019, 16, 595-605.	1.4	53
52	Metal-organic framework-driven copper/carbon polyhedron: synthesis, characterization and the role of copper in electrochemistry properties. Journal of Materials Science, 2018, 53, 7755-7766.	1.7	13
53	Effects of titanium surface roughness on the mediation of osteogenesis via modulating the immune response of macrophages. Biomedical Materials (Bristol), 2018, 13, 045013.	1.7	44
54	Enhanced SaOS-2 cell adhesion, proliferation and differentiation on Mg-incorporated micro/nano-topographical TiO ₂ coatings. Applied Surface Science, 2018, 447, 767-776.	3.1	35

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55	Construction of Z-Scheme System for Enhanced Photocatalytic H ₂ Evolution Based on CdS Quantum Dots/CeO ₂ Nanorods Heterojunction. ACS Sustainable Chemistry and Engineering, 2018, 6, 2552-2562.	3.2	105
56	Novel Mg-based alloys by selective laser melting for biomedical applications: microstructure evolution, microhardness and <i>in vitro</i> degradation behaviour. Virtual and Physical Prototyping, 2018, 13, 71-81.	5.3	52
57	Topical Application of Keratinocyte Growth Factor Conjugated Gold Nanoparticles Accelerate Wound Healing. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1619-1628.	1.7	34
58	Viscous flow activation energy adaptation by isothermal spark plasma sintering applied with different current mode. Scripta Materialia, 2018, 149, 125-128.	2.6	15
59	Revealing the deformation mechanism of amorphous polyethylene subjected to cycle loading via molecular dynamics simulations. RSC Advances, 2018, 8, 32377-32386.	1.7	10
60	Strengthening mechanism of gradient nanostructured body-centred cubic iron film: From inverse Hall-Petch to classic Hall-Petch. Computational Materials Science, 2018, 152, 236-242.	1.4	21
61	The Cu-containing TiO ₂ coatings with modulatory effects on macrophage polarization and bactericidal capacity prepared by micro-arc oxidation on titanium substrates. Colloids and Surfaces B: Biointerfaces, 2018, 170, 242-250.	2.5	66
62	Laser solid forming assisted by friction stir processing for preparation of Ni ₁₆ Cr ₈ Fe alloys: Crack repairing and grain refinement. Journal of Materials Research, 2018, 33, 3521-3529.	1.2	2
63	Reduced inflammatory response by incorporating magnesium into porous TiO ₂ coating on titanium substrate. Colloids and Surfaces B: Biointerfaces, 2018, 171, 276-284.	2.5	46
64	The osteogenic, inflammatory and osteo-immunomodulatory performances of biomedical Ti-Ta metal-metal composite with Ca- and Si-containing bioceramic coatings. Colloids and Surfaces B: Biointerfaces, 2018, 169, 49-59.	2.5	27
65	A new titanium matrix composite reinforced with Ti-36Nb-2Ta-3Zr-0.35O wire. Materials and Design, 2017, 117, 289-297.	3.3	14
66	Preparation and characterization of laser-melted Mg-Sn-Zn alloys for biomedical application. Journal of Materials Science: Materials in Medicine, 2017, 28, 13.	1.7	19
67	Highly efficient adsorption/photodegradation of organic pollutants using Sn _{1-0.25} Cu _x S ₂ flower-like as a novel photocatalyst. Journal of Alloys and Compounds, 2017, 702, 489-498.	2.8	9
68	Microstructural evolution and sintering kinetics during spark plasma sintering of Fe and Al blended powder. Transactions of Nonferrous Metals Society of China, 2017, 27, 1594-1601.	1.7	8
69	Misfit dislocations induced by lithium-ion diffusion in a thin film anode. Journal of Solid State Electrochemistry, 2017, 21, 419-427.	1.2	4
70	Effect of laser parameters on microstructure, metallurgical defects and property of AlSi10Mg printed by selective laser melting. Journal of Micromechanics and Molecular Physics, 2017, 02, 1750017.	0.7	38
71	The Enhancement of Mg Corrosion Resistance by Alloying Mn and Laser-Melting. Materials, 2016, 9, 216.	1.3	48
72	A Series of Zr-Based Bulk Metallic Glasses with Room Temperature Plasticity. Materials, 2016, 9, 408.	1.3	12

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73	Investigation on tensile behaviors of diamond-like carbon films. <i>Journal of Non-Crystalline Solids</i> , 2016, 443, 8-16.	1.5	35
74	Effect of environmental hydrogen atoms on the tribological behaviors of diamond-like carbon films. <i>Tribology International</i> , 2016, 99, 258-266.	3.0	36
75	Microstructures and tribological properties of laser clad Ti-based metallic glass composite coatings. <i>Materials Characterization</i> , 2016, 120, 82-89.	1.9	45
76	The microstructure, mechanical properties and degradation behavior of laser-melted Mg Sn alloys. <i>Journal of Alloys and Compounds</i> , 2016, 687, 109-114.	2.8	42
77	Microstructural evolution during hot and cold deformation of Ti-36Nb-2Ta-3Zr-0.35O alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1310-1316.	1.7	14
78	Fabrication, tribological and corrosion behaviors of detonation gun sprayed Fe-based metallic glass coating. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1629-1637.	1.7	45
79	Effects of aspect ratio and loading rate on room-temperature mechanical properties of Cu-based bulk metallic glasses. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 2617-2632.	1.7	7
80	Room temperature creep behavior of Ti-Nb-Ta-Zr-O alloy. <i>Materials Characterization</i> , 2016, 118, 29-36.	1.9	24
81	Study of nanoindentation mechanical response of nanocrystalline structures using molecular dynamics simulations. <i>Applied Surface Science</i> , 2016, 364, 190-200.	3.1	94
82	Molecular dynamics study of pressure-driven water transport through graphene bilayers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1886-1896.	1.3	86
83	Analytical Model for Sandwich-Lithiation in Hollow Amorphous Silicon Nano-Anodes Coated on Carbon Nanofibers. <i>Journal of the Electrochemical Society</i> , 2016, 163, A163-A170.	1.3	5
84	Powder metallurgical low-modulus Ti-Mg alloys for biomedical applications. <i>Materials Science and Engineering C</i> , 2015, 56, 241-250.	3.8	79
85	Preparation of ultra-fine grain Ni-Al-WC coating with interlocking bonding on austenitic stainless steel by laser clad and friction stir processing. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3685-3693.	1.7	9
86	Producing nanostructured Co-Cr-W alloy surface layer by laser cladding and friction stir processing. <i>Journal of Materials Research</i> , 2015, 30, 717-726.	1.2	12
87	Elastic modulus of phases in Ti-Mo alloys. <i>Materials Characterization</i> , 2015, 106, 302-307.	1.9	103
88	Diffusion-induced stress and strain energy affected by dislocation mechanisms in a cylindrical nanoanode. <i>Solid State Ionics</i> , 2015, 281, 21-28.	1.3	7
89	Engineering Biosynthesis Mechanisms for Diversifying Polyhydroxyalkanoates. <i>Trends in Biotechnology</i> , 2015, 33, 565-574.	4.9	115
90	Microstructures and wear properties of surface treated Ti-36Nb-2Ta-3Zr-0.35O alloy by electron beam melting (EBM). <i>Applied Surface Science</i> , 2015, 357, 2347-2354.	3.1	16

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91	Phase formation, glass forming ability, mechanical and thermal properties of $\text{Cu}_{50}\text{Zr}_{50-x}\text{Al}_x$ ($0 \leq x \leq 11.0$) glass forming alloys. <i>Science China Materials</i> , 2015, 58, 584-594.	3.5	4
92	Investigation into diffusion induced plastic deformation behavior in hollow lithium ion battery electrode revealed by analytical model and atomistic simulation. <i>Electrochimica Acta</i> , 2015, 178, 597-607.	2.6	25
93	Synthesis of Ti-Ta alloys with dual structure by incomplete diffusion between elemental powders. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 51, 302-312.	1.5	57
94	Preparation and characterization of nanostructured titanate bioceramic coating by anodization-hydrothermal method. <i>Applied Surface Science</i> , 2015, 328, 279-286.	3.1	7
95	Interfacial Thermal Conductance of a Silicene/Graphene Bilayer Heterostructure and the Effect of Hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18180-18188.	4.0	123
96	Casting effect on compressive brittleness of bulk metallic glass. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 385-392.	1.7	10
97	Is CD133 Expression a Prognostic Biomarker of Non-Small-Cell Lung Cancer? A Systematic Review and Meta-Analysis. <i>PLoS ONE</i> , 2014, 9, e100168.	1.1	30
98	Accelerated precipitation due to mechanical milling of two-phase B2/L21 $\text{Fe}_{30}\text{Ni}_{20}\text{Mn}_{20}\text{Al}_{30}$. <i>Journal of Alloys and Compounds</i> , 2013, 559, 97-100.	2.8	5
99	Microstructure and mechanical properties of two-phase $\text{Fe}_{30}\text{Ni}_{20}\text{Mn}_{20}\text{Al}_{30}$: part II mechanical properties. <i>Journal of Materials Science</i> , 2013, 48, 6535-6541.	1.7	2
100	Microstructure and mechanical behavior of directionally solidified $\text{Fe}_{35}\text{Ni}_{15}\text{Mn}_{25}\text{Al}_{25}$. <i>Intermetallics</i> , 2013, 32, 413-422.	1.8	5
101	Tribological studies of a Zr-based bulk metallic glass. <i>Intermetallics</i> , 2013, 35, 25-32.	1.8	44
102	An Overview of Dry Sliding Wear of Two-Phase FeNiMnAl Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1516, 103-108.	0.1	1
103	Bi-modal microstructure in a powder metallurgical ferritic steel. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 330-334.	1.7	3
104	Dry sliding tribological behavior of Zr-based bulk metallic glass. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 585-589.	1.7	29
105	Dry sliding wear of nanostructured $\text{Fe}_{30}\text{Ni}_{20}\text{Mn}_{20}\text{Al}_{30}$. <i>Intermetallics</i> , 2012, 23, 116-127.	1.8	11
106	Effects of environment on the sliding tribological behaviors of Zr-based bulk metallic glass. <i>Intermetallics</i> , 2012, 25, 115-125.	1.8	46
107	Magnetically-triggered heating of Fe-Al powders. <i>Intermetallics</i> , 2011, 19, 1517-1525.	1.8	6
108	The microstructure of near-equiatomic B2/f.c.c. FeNiMnAl alloys. <i>Materials Characterization</i> , 2011, 62, 952-958.	1.9	18

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109	Casting effect on softening of metallic glasses. Journal of Alloys and Compounds, 2009, 483, 82-85.	2.8	2
110	Thermal Stability and Crystallization Kinetics in Y-Based Metallic Glasses. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 1797-1803.	1.1	6
111	Effect of Zr on glass-forming ability and crystallization kinetics of Y56Al24Co20 metallic glass. Journal of Materials Processing Technology, 2008, 204, 179-183.	3.1	8
112	Physical factors controlling the ductility of bulk metallic glasses. Applied Physics Letters, 2008, 93, .	1.5	29
113	Effect of yttrium addition on the glass forming ability of Co-based alloys. International Journal of Materials Research, 2008, 99, 689-692.	0.1	2