Hailin Yang

List of Publications by Year
in descending order

58	1,545	279701	360920
papers	citations	23 h-index	35 g-index

59	59	59	1120
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of fine WC contents and temperature on the microstructure and mechanical properties of inhomogeneous WC-(fine WC-Co) cemented carbides. Ceramics International, 2016, 42, 18100-18107.	2.3	79
2	Corrosion behavior of CoCrNi medium-entropy alloy compared with 304 stainless steel in H2SO4 and NaOH solutions. Corrosion Science, 2020, 177, 108973.	3.0	77
3	High strength and ductility aluminium alloy processed by high pressure die casting. Journal of Alloys and Compounds, 2019, 773, 86-96.	2.8	70
4	Effect of heat treatment and Fe content on the microstructure and mechanical properties of die-cast Alâ€“Siâ€“Cu alloys. Materials and Design, 2015, 85, 823-832.	3.3	68
5	Strengthening CoCrNi medium-entropy alloy by tuning lattice defects. Scripta Materialia, 2020, 188, 216-221.	2.6	68
6	Effect of Mg level on the microstructure and mechanical properties of die-cast Alâ€“Siâ€“Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 642, 340-350.	2.6	66
7	Effects of WC particle size on sintering behavior and mechanical properties of coarse grained WCâ€“8Co cemented carbides fabricated by unmilled composite powders. Ceramics International, 2015, 41, 14482-14491.	2.3	63
8	Effects of VC/Cr 3 C 2 on WC grain morphologies and mechanical properties of WC-6wt.%Co cemented carbides. Journal of Alloys and Compounds, 2017, 714, 245-250.	2.8	60
9	Effect of cobalt content on the microstructure and mechanical properties of coarse grained WC-Co cemented carbides fabricated from chemically coated composite powder. Journal of Alloys and Compounds, 2018, 766, 556-563.	2.8	52
10	Microstructure, mechanical behavior and biocompatibility of powder metallurgy Nb-Ti-Ta alloys as biomedical material. Materials Science and Engineering C, 2017, 71, 512-519.	3.8	47
11	Porous Nb-Ti-Ta alloy scaffolds for bone tissue engineering: Fabrication, mechanical properties and in vitro/vivo biocompatibility. Materials Science and Engineering C, 2017, 78, 503-512.	3.8	46
12	The effects of varying Mg and Si levels on the microstructural inhomogeneity and eutectic Mg2Si morphology in die-cast Alâ€“Mgâ€“Si alloys. Journal of Materials Science, 2019, 54, 5773-5787.	1.7	41
13	Effects of TiB2 particle size on the microstructure and mechanical properties of TiB2-based composites. Ceramics International, 2019, 45, 1370-1378.	2.3	40
14	In-situ Mo nanoparticles strengthened CoCrNi medium entropy alloy. Journal of Alloys and Compounds, 2019, 798, 576-586.	2.8	38
15	Effects of TaC on microstructure and mechanical properties of coarse grained WCâ€“9Co cemented carbides. Transactions of Nonferrous Metals Society of China, 2015, 25, 1194-1199.	1.7	34
16	Microstructure and properties of CoCrNi medium-entropy alloy produced by gas atomization and spark plasma sintering. Journal of Materials Research, 2019, 34, 2126-2136.	1.2	33
17	Additive manufacturing of a high strength Al-5Mg2Si-2Mg alloy: Microstructure and mechanical properties. Journal of Materials Science and Technology, 2021, 91, 215-223.	5.6	31
18	Low elastic modulus titaniumâ€“nickel scaffolds for bone implants. Materials Science and Engineering C, 2014, 34, 110-114.	3.8	29

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19	Microstructure, mechanical properties, and preliminary biocompatibility evaluation of binary Tiâ€“Zr alloys for dental application. Journal of Biomaterials Applications, 2019, 33, 766-775.	1.2	29
20	Structural preparation and biocompatibility evaluation of highly porous Tantalum scaffolds. Materials Letters, 2013, 100, 152-155.	1.3	27
21	On the exceptional creep resistance in a die-cast Gd-containing Mg alloy with Al addition. Acta Materialia, 2022, 232, 117957.	3.8	26
22	Fabrication, characterization and in vitro biocompatibility evaluation of porous Taâ€“Nb alloy for bone tissue engineering. Materials Science and Engineering C, 2014, 40, 71-75.	3.8	25
23	Effect of nickel on the microstructure and mechanical property of die-cast Alâ€“Mgâ€“Siâ€“Mn alloy. Journal of Materials Science, 2014, 49, 8412-8422.	1.7	24
24	Synthesis of WC composite powder with nano-cobalt coatings and its application inÂWC-4Co cemented carbide. Ceramics International, 2018, 44, 10961-10967.	2.3	23
25	A novel Fe40Mn40Cr10Co10/SiC medium-entropy nanocomposite reinforced by the nanoparticles-woven architectural structures. Journal of Alloys and Compounds, 2019, 772, 272-279.	2.8	22
26	Preparation and characterization of biomedical highly porous Tiâ€“Nb alloy. Journal of Materials Science: Materials in Medicine, 2016, 27, 76.	1.7	21
27	Microstructure and mechanical properties of TiB 2 -based composites with high volume fraction of Fe-Ni additives prepared by vacuum pressureless sintering. Ceramics International, 2017, 43, 1394-1401.	2.3	19
28	Microstructure and mechanical properties of SiC whisker reinforced CoCrNi medium entropy alloys. Materials Letters, 2019, 254, 77-80.	1.3	19
29	Grain growth behaviour and mechanical properties of coarse-grained cemented carbides with bimodal grain size distributions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140586.	2.6	19
30	Effects of TiC nanoparticle inoculation on the hot-tearing cracks and grain refinement of additively-manufactured AA2024 Al alloys. Journal of Materials Research and Technology, 2022, 19, 194-207.	2.6	19
31	Rheological responses of fumed silica suspensions under steady and oscillatory shear. Science in China Series D: Earth Sciences, 2009, 52, 910-915.	0.9	18
32	High strength-ductility Co23Cr23Ni23Mn31 medium-entropy alloy achieved via defect engineering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 796, 139974.	2.6	18
33	Synthesis of ultrafine WC-10Co composite powders with carbon boat added and densification by sinter-HIP. International Journal of Refractory Metals and Hard Materials, 2017, 62, 104-109.	1.7	17
34	Effects of ultrafine WC on the densification behavior and microstructural evolution of coarse-grained WC-5Co cemented carbides. Ceramics International, 2020, 46, 12852-12860.	2.3	17
35	Tribological behavior and microstructural evolution of lubricating film of silver matrix self-lubricating nanocomposite. Friction, 2021, 9, 941-951.	3.4	17
36	Metalâ€“organic framework microdomains in 3D conductive host as polysulfide inhibitor for fast, long-cycle Liâ€“S batteries. Applied Surface Science, 2021, 535, 147680.	3.1	17

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37	Effect of TiN addition on the microstructure and mechanical properties of TiB2-FeNi based cermets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 546-557.	2.6	16
38	Exceptional strength-ductility synergy of additively manufactured CoCrNi medium-entropy alloy achieved by lattice defects in heterogeneous microstructures. Journal of Materials Science and Technology, 2022, 127, 61-70.	5.6	16
39	Synthesis and characterization of WC-Co nanosized composite powders with in situ carbon and gas carbon sources. Metals and Materials International, 2016, 22, 663-669.	1.8	15
40	Optimization of mechanical and antibacterial properties of Ti-3wt%Cu alloy through cold rolling and annealing. Rare Metals, 2022, 41, 610-620.	3.6	15
41	High strength and ductility of an additively manufactured CrCoNi medium-entropy alloy achieved by minor Mo doping. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 843, 143129.	2.6	15
42	Synthesis of ultrafine <scp>WC</scp>â€Co composite powders under hydrogen atmosphere with inÂsitu carbon via a oneâ€step reductionâ€carbonization process. International Journal of Applied Ceramic Technology, 2017, 14, 220-227.	1.1	12
43	Effect of Ti on microstructure, mechanical properties and corrosion resistance of Zr-Ta-Ti alloys processed by spark plasma sintering. Journal of Central South University, 2020, 27, 2185-2197.	1.2	12
44	Synergistic effects of WC nanoparticles and MC nanoprecipitates on the mechanical and tribological properties of Fe40Mn40Cr10Co10 medium-entropy alloy. Journal of Materials Research and Technology, 2019, 8, 3550-3564.	2.6	11
45	Nb-Ti-Zr alloys for orthopedic implants. Journal of Biomaterials Applications, 2021, 35, 1284-1293.	1.2	11
46	Microstructures and Mechanical Properties of H13 Tool Steel Fabricated by Selective Laser Melting. Materials, 2022, 15, 2686.	1.3	11
47	In vivo testing of porous Ti-25Nb alloy serving as a femoral stem prosthesis in a rabbit model. Experimental and Therapeutic Medicine, 2016, 12, 1323-1330.	0.8	10
48	Advanced heat treated die-cast aluminium composites fabricated by TiB2 nanoparticle implantation. Materials and Design, 2020, 186, 108372.	3.3	10
49	Effects of alloying elements and annealing treatment on the microstructure and mechanical properties of Nb-Ta-Ti alloys fabricated by partial diffusion for biomedical applications. Materials Science and Engineering C, 2020, 110, 110542.	3.8	9
50	Effect of Re addition on the microstructure and mechanical properties of WC-10Co cemented carbides fabricated by chemical coating method. International Journal of Refractory Metals and Hard Materials, 2020, 93, 105344.	1.7	9
51	Macro-heterogeneities in microstructures, concentrations, defects and tensile properties of die cast Alâ€“Mgâ€“Si alloys. Materials Science and Technology, 2017, 33, 2223-2233.	0.8	9
52	Crystallization behavior of sub-surface in (Zr,Cu)95Al5 bulk metallic glass induced by different counter-face materials. Materials and Design, 2016, 111, 213-221.	3.3	8
53	In vitro cell response and in vivo primary osteointegration of highly porous Taâ€Nb alloys as implant materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 573-581.	1.6	8
54	A high Fe-containing AlSi12 alloy fabricated by laser powder bed fusion. Journal of Materials Research and Technology, 2022, 18, 4513-4521.	2.6	8

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55	Repeatability of tensile properties in high pressure die-castings of an Al-Mg-Si-Mn alloy. Metals and Materials International, 2015, 21, 936-943.	1.8	7
56	Preparation of porous Ta-10%Nb alloy scaffold and its in vitro biocompatibility evaluation using MC3T3-E1 cells. Transactions of Nonferrous Metals Society of China, 2018, 28, 2053-2061.	1.7	6
57	Effect of electric current on the microstructural evolution and tribological behavior of highly oriented pyrolytic graphite. Journal of Materials Science, 2020, 55, 7283-7294.	1.7	5
58	Influence of low modulus Co-Zr alloys surface modification on protein adsorption and MC3T3-E1, NIH3T3 and RAW264.7 cell behaviour. Journal of Biomaterials Applications, 2021, 35, 1061-1070.	1.2	3