

# Hailin Yang

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,545  
citations

279487

23  
h-index

360668

35  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1120  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Optimization of mechanical and antibacterial properties of Ti-3wt%Cu alloy through cold rolling and annealing. <i>Rare Metals</i> , 2022, 41, 610-620.   | 3.6 | 15        |
| 2  | Microstructures and Mechanical Properties of H13 Tool Steel Fabricated by Selective Laser Melting. <i>Materials</i> , 2022, 15, 2686.  | 1.3 | 11        |
| 3  | On the exceptional creep resistance in a die-cast Gd-containing Mg alloy with Al addition. <i>Acta Materialia</i> , 2022, 232, 117957.   | 3.8 | 26        |
| 4  | High strength and ductility of an additively manufactured CrCoNi medium-entropy alloy achieved by minor Mo doping. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 843, 143129.                                | 2.6 | 15        |
| 5  | A high Fe-containing AlSi12 alloy fabricated by laser powder bed fusion. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4513-4521.  | 2.6 | 8         |
| 6  | Effects of TiC nanoparticle inoculation on the hot-tearing cracks and grain refinement of additively-manufactured AA2024 Al alloys. <i>Journal of Materials Research and Technology</i> , 2022, 19, 194-207.   | 2.6 | 19        |
| 7  | Exceptional strength-ductility synergy of additively manufactured CoCrNi medium-entropy alloy achieved by lattice defects in heterogeneous microstructures. <i>Journal of Materials Science and Technology</i> , 2022, 127, 61-70.   | 5.6 | 16        |
| 8  | Nb-Ti-Zr alloys for orthopedic implants. <i>Journal of Biomaterials Applications</i> , 2021, 35, 1284-1293.  | 1.2 | 11        |
| 9  | Influence of low modulus Co-Zr alloys surface modification on protein adsorption and MC3T3-E1, NIH3T3 and RAW264.7 cell behaviour. <i>Journal of Biomaterials Applications</i> , 2021, 35, 1061-1070.  | 1.2 | 3         |
| 10 | Tribological behavior and microstructural evolution of lubricating film of silver matrix self-lubricating nanocomposite. <i>Friction</i> , 2021, 9, 941-951.   | 3.4 | 17        |
| 11 | Metal-organic framework microdomains in 3D conductive host as polysulfide inhibitor for fast, long-cycle Li-S batteries. <i>Applied Surface Science</i> , 2021, 535, 147680.   | 3.1 | 17        |
| 12 | Grain growth behaviour and mechanical properties of coarse-grained cemented carbides with bimodal grain size distributions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 805, 140586.                       | 2.6 | 19        |
| 13 | Additive manufacturing of a high strength Al-5Mg2Si-2Mg alloy: Microstructure and mechanical properties. <i>Journal of Materials Science and Technology</i> , 2021, 91, 215-223.   | 5.6 | 31        |
| 14 | 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. <i>Materials Science and Engineering C</i> , 2020, 110, 110542.                                 | 3.8 | 9         |
| 15 | Advanced heat treated die-cast aluminium composites fabricated by TiB <sub>2</sub> nanoparticle implantation. <i>Materials and Design</i> , 2020, 186, 108372.   | 3.3 | 10        |
| 16 | High strength-ductility Co <sub>23</sub> Cr <sub>23</sub> Ni <sub>23</sub> Mn <sub>31</sub> medium-entropy alloy achieved via defect engineering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 139974. | 2.6 | 18        |
| 17 | Effect of Re addition on the microstructure and mechanical properties of WC-10Co cemented carbides fabricated by chemical coating method. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 93, 105344.   | 1.7 | 9         |
| 18 | Strengthening CoCrNi medium-entropy alloy by tuning lattice defects. <i>Scripta Materialia</i> , 2020, 188, 216-221.   | 2.6 | 68        |

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|----|--|-----|-----------|
| 19 | Corrosion behavior of CoCrNi medium-entropy alloy compared with 304 stainless steel in H <sub>2</sub> SO <sub>4</sub> and NaOH solutions. <i>Corrosion Science</i> , 2020, 177, 108973.  | 3.0 | 77        |
| 20 | Effect of Ti on microstructure, mechanical properties and corrosion resistance of Zr-Ta-Ti alloys processed by spark plasma sintering. <i>Journal of Central South University</i> , 2020, 27, 2185-2197.   | 1.2 | 12        |
| 21 | Effect of electric current on the microstructural evolution and tribological behavior of highly oriented pyrolytic graphite. <i>Journal of Materials Science</i> , 2020, 55, 7283-7294.  | 1.7 | 5         |
| 22 | Effects of ultrafine WC on the densification behavior and microstructural evolution of coarse-grained WC-5Co cemented carbides. <i>Ceramics International</i> , 2020, 46, 12852-12860.   | 2.3 | 17        |
| 23 | Effects of TiB <sub>2</sub> particle size on the microstructure and mechanical properties of TiB <sub>2</sub> -based composites. <i>Ceramics International</i> , 2019, 45, 1370-1378.  | 2.3 | 40        |
| 24 | <i>In vitro</i> cell response and <i>in vivo</i> primary osteointegration of highly porous Ta-Nb alloys as implant materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 573-581.  | 1.6 | 8         |
| 25 | Synergistic effects of WC nanoparticles and MC nanoprecipitates on the mechanical and tribological properties of Fe <sub>40</sub> Mn <sub>40</sub> Cr <sub>10</sub> Co <sub>10</sub> medium-entropy alloy. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3550-3564. | 2.6 | 11        |
| 26 | Microstructure and mechanical properties of SiC whisker reinforced CoCrNi medium entropy alloys. <i>Materials Letters</i> , 2019, 254, 77-80.  | 1.3 | 19        |
| 27 | The effects of varying Mg and Si levels on the microstructural inhomogeneity and eutectic Mg <sub>2</sub> Si morphology in die-cast Al-Mg-Si alloys. <i>Journal of Materials Science</i> , 2019, 54, 5773-5787.  | 1.7 | 41        |
| 28 | In-situ Mo nanoparticles strengthened CoCrNi medium entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019, 798, 576-586.  | 2.8 | 38        |
| 29 | Microstructure and properties of CoCrNi medium-entropy alloy produced by gas atomization and spark plasma sintering. <i>Journal of Materials Research</i> , 2019, 34, 2126-2136.   | 1.2 | 33        |
| 30 | A novel Fe <sub>40</sub> Mn <sub>40</sub> Cr <sub>10</sub> Co <sub>10</sub> /SiC medium-entropy nanocomposite reinforced by the nanoparticles-woven architectural structures. <i>Journal of Alloys and Compounds</i> , 2019, 772, 272-279.   | 2.8 | 22        |
| 31 | Microstructure, mechanical properties, and preliminary biocompatibility evaluation of binary Ti-Zr alloys for dental application. <i>Journal of Biomaterials Applications</i> , 2019, 33, 766-775.   | 1.2 | 29        |
| 32 | Effect of TiN addition on the microstructure and mechanical properties of TiB <sub>2</sub> -FeNi based cermets. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 546-557.                                  | 2.6 | 16        |
| 33 | High strength and ductility aluminium alloy processed by high pressure die casting. <i>Journal of Alloys and Compounds</i> , 2019, 773, 86-96.   | 2.8 | 70        |
| 34 | Synthesis of WC composite powder with nano-cobalt coatings and its application in WC-4Co cemented carbide. <i>Ceramics International</i> , 2018, 44, 10961-10967.  | 2.3 | 23        |
| 35 | Preparation of porous Ta-10%Nb alloy scaffold and its <i>in vitro</i> biocompatibility evaluation using MC3T3-E1 cells. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 2053-2061.   | 1.7 | 6         |
| 36 | Effect of cobalt content on the microstructure and mechanical properties of coarse grained WC-Co cemented carbides fabricated from chemically coated composite powder. <i>Journal of Alloys and Compounds</i> , 2018, 766, 556-563.  | 2.8 | 52        |

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|----|---|-----|-----------|
| 37 | Porous Nb-Ti-Ta alloy scaffolds for bone tissue engineering: Fabrication, mechanical properties and in vitro/vivo biocompatibility. <i>Materials Science and Engineering C</i> , 2017, 78, 503-512.                                 | 3.8 | 46        |
| 38 | Effects of VC/Cr 3 C 2 on WC grain morphologies and mechanical properties of WC-6wt.%Co cemented carbides. <i>Journal of Alloys and Compounds</i> , 2017, 714, 245-250.   | 2.8 | 60        |
| 39 | Synthesis of ultrafine WC-Co composite powders under hydrogen atmosphere with in situ carbon via a one-step reduction-carbonization process. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 220-227.        | 1.1 | 12        |
| 40 | Microstructure, mechanical behavior and biocompatibility of powder metallurgy Nb-Ti-Ta alloys as biomedical material. <i>Materials Science and Engineering C</i> , 2017, 71, 512-519.   | 3.8 | 47        |
| 41 | Synthesis of ultrafine WC-10Co composite powders with carbon boat added and densification by sinter-HIP. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 62, 104-109.                                  | 1.7 | 17        |
| 42 | Microstructure and mechanical properties of TiB 2 -based composites with high volume fraction of Fe-Ni additives prepared by vacuum pressureless sintering. <i>Ceramics International</i> , 2017, 43, 1394-1401.                    | 2.3 | 19        |
| 43 | Macro-heterogeneities in microstructures, concentrations, defects and tensile properties of die cast Al-Mg-Si alloys. <i>Materials Science and Technology</i> , 2017, 33, 2223-2233.  | 0.8 | 9         |
| 44 | In vivo testing of porous Ti-25Nb alloy serving as a femoral stem prosthesis in a rabbit model. <i>Experimental and Therapeutic Medicine</i> , 2016, 12, 1323-1330.   | 0.8 | 10        |
| 45 | The effects of fine WC contents and temperature on the microstructure and mechanical properties of inhomogeneous WC-(fine WC-Co) cemented carbides. <i>Ceramics International</i> , 2016, 42, 18100-18107.                          | 2.3 | 79        |
| 46 | Crystallization behavior of sub-surface in (Zr,Cu)95Al5 bulk metallic glass induced by different counter-face materials. <i>Materials and Design</i> , 2016, 111, 213-221.  | 3.3 | 8         |
| 47 | Synthesis and characterization of WC-Co nanosized composite powders with in situ carbon and gas carbon sources. <i>Metals and Materials International</i> , 2016, 22, 663-669.  | 1.8 | 15        |
| 48 | Preparation and characterization of biomedical highly porous Ti-Nb alloy. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 76.  | 1.7 | 21        |
| 49 | Effects of TaC on microstructure and mechanical properties of coarse grained WC-Co cemented carbides. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 1194-1199.  | 1.7 | 34        |
| 50 | Effect of heat treatment and Fe content on the microstructure and mechanical properties of die-cast Al-Si-Cu alloys. <i>Materials and Design</i> , 2015, 85, 823-832.   | 3.3 | 68        |
| 51 | Effect of Mg level on the microstructure and mechanical properties of die-cast Al-Si-Cu alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 642, 340-350. | 2.6 | 66        |
| 52 | Effects of WC particle size on sintering behavior and mechanical properties of coarse grained WC-Co cemented carbides fabricated by unmilled composite powders. <i>Ceramics International</i> , 2015, 41, 14482-14491.              | 2.3 | 63        |
| 53 | Repeatability of tensile properties in high pressure die-castings of an Al-Mg-Si-Mn alloy. <i>Metals and Materials International</i> , 2015, 21, 936-943.   | 1.8 | 7         |
| 54 | Effect of nickel on the microstructure and mechanical property of die-cast Al-Mg-Si-Mn alloy. <i>Journal of Materials Science</i> , 2014, 49, 8412-8422.  | 1.7 | 24        |

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|----|---|-----|-----------|
| 55 | Low elastic modulus titanium–nickel scaffolds for bone implants. <i>Materials Science and Engineering C</i> , 2014, 34, 110-114.  | 3.8 | 29        |
| 56 | Fabrication, characterization and in vitro biocompatibility evaluation of porous Ta–Nb alloy for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2014, 40, 71-75. | 3.8 | 25        |
| 57 | Structural preparation and biocompatibility evaluation of highly porous Tantalum scaffolds. <i>Materials Letters</i> , 2013, 100, 152-155.  | 1.3 | 27        |
| 58 | Rheological responses of fumed silica suspensions under steady and oscillatory shear. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 910-915.                             | 0.9 | 18        |