Hongbiao Dong

List of Publications by Year in descending order

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92	2,857	147726	197736
papers	citations	31 h-index	49 g-index

92	92	92	2342
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Seynergistic effect of Mo and Zr additions on microstructure and mechanical properties of Nbâ€Tiâ€Siâ€based alloys additively manufactured by laser directed energy deposition. Journal of Materials Science and Technology, 2022, 103, 84-97.	5.6	13
2	Precipitation behavior of Nb-Si-based in-situ composite manufactured by laser directed energy deposition. Scripta Materialia, 2022, 207, 114288.	2.6	12
3	Comparison of desulfurization mechanism in liquid CaO-SiO2 and MnO-SiO2: An ab initio molecular dynamics simulation. Journal of Alloys and Compounds, 2022, 896, 163008.	2.8	5
4	Evaluating data-driven algorithms for predicting mechanical properties with small datasets: A case study on gear steel hardenability. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 836-847.	2.4	14
5	Insight into the sensitivities of freckles in the directional solidification of single-crystal turbine blades. Journal of Manufacturing Processes, 2022, 77, 219-228.	2.8	13
6	An engineering route to synthesize stable bulk nanocrystalline magnesium with an average grain size of 20Anm. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 843, 143134.	2.6	1
7	Toxicological effects of microplastics in Litopenaeus vannamei as indicated by an integrated microbiome, proteomic and metabolomic approach. Science of the Total Environment, 2021, 761, 143311.	3.9	45
8	Toxic effects of ammonia and thermal stress on the intestinal microbiota and transcriptomic and metabolomic responses of Litopenaeus vannamei. Science of the Total Environment, 2021, 754, 141867.	3.9	74
9	The effect of Mo on microstructure and mechanical properties of Nb-22Ti-16Si alloy additively manufactured via laser directed energy deposition. Journal of Alloys and Compounds, 2021, 858, 158143.	2.8	11
10	Extraordinary mechanical properties of AZ61 alloy processed by ECAP with 160Â° channel angle and EPT. Journal of Magnesium and Alloys, 2021, 9, 548-559.	5.5	34
11	Porous solid carbon source-supported denitrification in simulated mariculture wastewater. Environmental Technology (United Kingdom), 2021, 42, 1196-1203.	1.2	6
12	Solute-adsorption enhanced heterogeneous nucleation: the effect of Cu adsorption on Î±-Al nucleation at the sapphire substrate. Physical Chemistry Chemical Physics, 2021, 23, 5270-5282.	1.3	12
13	Applying Stereological Characterisation to the Solidification Structure of Single Crystal Alloys to Deduce the 3D Macroscopic Solid/Liquid Interface Shape. Minerals, Metals and Materials Series, 2021, , 15-25.	0.3	1
14	Microstructure and mechanical properties of SiCp/AZ91 composite processed with extrusion and EPT. Materials Science and Technology, 2021, 37, 269-279.	0.8	8
15	Thermal-solutal-fluid flow of channel segregation during directional solidification of single-crystal nickel-based superalloys. Acta Materialia, 2021, 206, 116620.	3.8	34
16	Effect of Chemical Potential and Atomic-Scale Vibration of Nucleant Surface on Liquid Layering and Heterogeneous Nucleation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2136-2143.	1.1	4
17	The compressive behavior and energy absorption performance of nano-crystalline porous magnesium fabricated by hydrogenation-dehydrogenation and spark plasma sintering technique. Journal of Alloys and Compounds, 2021, 862, 158698.	2.8	2
18	Interaction between M(C, N) and Ferrite in Electropulsing Microalloyed Steel. ISIJ International, 2021, 61, 1550-1555.	0.6	1

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19	Toxic effects of cadmium and lead exposure on intestinal histology, oxidative stress response, and microbial community of Pacific white shrimp Litopenaeus vannamei. Marine Pollution Bulletin, 2021, 167, 112220.	2.3	40
20	An Ab Initio Molecular Dynamics Simulation of Liquid FeOâ€“SiO2 Silicate System with Sulfur Dissolving. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3346-3353.	1.0	5
21	Application of deep transfer learning to predicting crystal structures of inorganic substances. Computational Materials Science, 2021, 195, 110476.	1.4	11
22	Solute enrichment induced dendritic fragmentation in directional solidification of nickel-based superalloys. Acta Materialia, 2021, 215, 117043.	3.8	38
23	On the origin of mosaicity in directionally solidified Ni-base superalloys. Acta Materialia, 2021, 217, 117180.	3.8	14
24	A general and transferable deep learning framework for predicting phase formation in materials. Npj Computational Materials, 2021, 7, .	3.5	40
25	Enhancing compressive mechanical properties of rolled AZ31 Mg alloy plates by pre-compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138686.	2.6	27
26	Transcriptomic analysis of juvenile Chinese sea bass (Lateolabrax maculatus) anesthetized by MS-222 (tricaine methanesulfonate) and eugenol. Fish Physiology and Biochemistry, 2020, 46, 909-920.	0.9	7
27	Protection of teprenone against hypoxia and reoxygenation stress in stomach and intestine of Lateolabrax maculatus. Fish Physiology and Biochemistry, 2020, 46, 575-584.	0.9	16
28	Rapid production of pillar structures on the surface of single crystal CMSX-4 superalloy by femtosecond laser machining. Optics and Lasers in Engineering, 2020, 127, 105941.	2.0	19
29	The preparation and mechanical properties of nano-magnesium alloy bulks. Journal of Alloys and Compounds, 2020, 819, 153253.	2.8	6
30	Physiological and molecular differences in the thermal tolerance of two varieties of kuruma prawn Marsupenaeus japonicus: critical thermal maximum and heat shock proteinÂ70. Fisheries Science, 2020, 86, 163-169.	0.7	4
31	On the nature of hexagonality within the solidification structure of single crystal alloys: Mechanisms and applications. Acta Materialia, 2020, 200, 417-431.	3.8	16
32	Exceptional mechanical properties of AZ31 alloy wire by combination of cold drawing and EPT. Journal of Materials Science and Technology, 2020, 51, 111-118.	5.6	19
33	On Directional Dendritic Growth and Primary Spacingâ€”A Review. Crystals, 2020, 10, 627.	1.0	33
34	Effect of electropulsing on the precipitation of NbC_xN_{1â^'x} from austenite phase. Materials Science and Technology, 2020, 36, 1566-1573.	0.8	1
35	2D single crystal Bragg-dip mapping by time-of-flight energy-resolved neutron imaging on IMAT@ISIS. Scientific Reports, 2020, 10, 20751.	1.6	8
36	Automatic Recognition of Dendritic Solidification Structures: DenMap. Journal of Imaging, 2020, 6, 19.	1.7	16

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37	Effects of Microcystis aeruginosa and microcystin-LR on intestinal histology, immune response, and microbial community in Litopenaeus vannamei. Environmental Pollution, 2020, 265, 114774.	3.7	37
38	Microstructure evolution and mechanical properties of an AZ61 alloy processed with TS-ECAP and EPT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139195.	2.6	17
39	Microstructure and isothermal oxidation behavior of Nb-Ti-Si-based alloy additively manufactured by powder-feeding laser directed energy deposition. Corrosion Science, 2020, 173, 108757.	3.0	14
40	Unveiling the influence of interfacial bonding and dynamics on solid/liquid interfacial structures: An ab initio molecular dynamics study of (0001) sapphire-liquid Al interfaces. Physical Review Materials, 2020, 4, .	0.9	12
41	5th UKâ€“China Steel Research Forum. Metals, 2019, 9, 738.	1.0	0
42	A New Efficient Quantitative Multi-component Phase Field: Lattice Boltzmann Model for Simulating Ti6Al4V Solidified Dendrite Under Forced Flow. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2487-2497.	1.0	14
43	Compressive Deformation Behavior of AZ31Mg Alloy Containing {10â€“12} Extension Twins at Different Temperature. Metals and Materials International, 2019, 25, 1170-1181.	1.8	7
44	Changes in the intestine microbial, digestion and immunity of Litopenaeus vannamei in response to dietary resistant starch. Scientific Reports, 2019, 9, 6464.	1.6	50
45	Phase field study of spacing evolution during wire and laser additive manufacturing under transient conditions. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012003.	0.3	3
46	Using deep neural network with small dataset to predict material defects. Materials and Design, 2019, 162, 300-310.	3.3	333
47	Effect of electropulsing treatment on static recrystallization behavior of cold-rolled magnesium alloy ZK60 with different reductions. Journal of Materials Science and Technology, 2019, 35, 1113-1120.	5.6	41
48	Atomistics of pre-nucleation layering of liquid metals at the interface with poor nucleants. Communications Chemistry, 2019, 2, .	2.0	115
49	GPU-accelerated three-dimensional large-scale simulation of dendrite growth for Ti6Al4V alloy based on multi-component phase-field model. Computational Materials Science, 2019, 160, 149-158.	1.4	23
50	Zirconium modified Nb-22Ti-16Si alloys fabricated by laser additive manufacturing: Microstructure and fracture toughness. Journal of Alloys and Compounds, 2019, 783, 66-76.	2.8	31
51	[illegible] altimg="si0003.gif" overflow="scroll"><mml:mrow><mml:mo stretchy="false">{</mml:mo><mml:mn>10</mml:mn><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mo>Â¯</mml:mo></mml:mover><mml:mn>2</mml:mn><mml:mo stretchy="false">}</mml:mo></mml:mrow></mml:math> extension twins on mechanical properties, microstructure evolution and dynamic recrystallization of AZ31 Mg alloy during uniaxial	2.6	51
52	The efficacy of eugenol and tricaine methanesulphonate as anaesthetics for juvenile Chinese sea bass (Lateolabrax maculatus) during simulated transport. Journal of Applied Ichthyology, 2019, 35, 551-557.	0.3	18
53	First-principle study of interfacial properties between Î³-TiAl and TiC, VN. Molecular Simulation, 2019, 45, 50-57.	0.9	5
54	Microstructure evolution and deformation behaviors of AZ31 Mg alloy with different grain orientation during uniaxial compression. Journal of Alloys and Compounds, 2018, 741, 514-526.	2.8	32

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55	The wettability and interfacial characterization between Î³-TiAl alloy and ceramic reinforcements. Composite Interfaces, 2018, 25, 713-723.	1.3	6
56	Effects of Dietary Lactobacillus plantarum on Growth Performance, Digestive Enzymes and Gut Morphology of Litopenaeus vannamei. Probiotics and Antimicrobial Proteins, 2018, 10, 504-510.	1.9	54
57	Molecular cloning of heat shock protein 60 from Marsupenaeus japonicus and its expression profiles at early developmental stages and response to heat stress. Aquaculture Research, 2018, 49, 301-312.	0.9	6
58	The In-Plane Structure and Dynamic Property of the Homogeneous Al-Al Solid-Liquid Interface. Metals, 2018, 8, 602.	1.0	7
59	Changes in the Intestine Microbial, Digestive, and Immune-Related Genes of Litopenaeus vannamei in Response to Dietary Probiotic Clostridium butyricum Supplementation. Frontiers in Microbiology, 2018, 9, 2191.	1.5	99
60	Grain refining and improving mechanical properties of AZ31 Mg alloy sheets by multi-pass warm rolling with falling temperature. Journal of Materials Research, 2018, 33, 2827-2834.	1.2	3
61	Cellular tip splitting instability during transient growth. Computational Materials Science, 2018, 155, 364-372.	1.4	3
62	Exceptional mechanical properties of ultra-fine grain AZ31 alloy by the combined processing of ECAP, rolling and EPT. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 731, 54-60.	2.6	41
63	Physiological and immune response in the gills of Litopenaeus vannamei exposed to acute sulfide stress. Fish and Shellfish Immunology, 2018, 81, 161-167.	1.6	25
64	Effects of the Dietary Probiotic Clostridium butyricum on Intestine Digestive and Metabolic Capacities, SCFA Content and Body Composition in Marsupenaeus japonicus. Journal of Ocean University of China, 2018, 17, 690-696.	0.6	17
65	Substrate-Induced Liquid Layering: A New Insight into the Heterogeneous Nucleation of Liquid Metals. Metals, 2018, 8, 521.	1.0	14
66	Effects of dietary Lactobacillus plantarum in different treatments on growth performance and immune gene expression of white shrimp Litopenaeus vannamei under normal condition and stress of acute low salinity. Fish and Shellfish Immunology, 2017, 62, 195-201.	1.6	110
67	Formation and mechanism of nanocrystalline AZ91 powders during HDDR processing. Materials Characterization, 2017, 125, 134-141.	1.9	4
68	Intestine oxidative stress and immune response to sulfide stress in Pacific white shrimp Litopenaeus vannamei. Fish and Shellfish Immunology, 2017, 63, 201-207.	1.6	36
69	Effect of the dietary probiotic Clostridium butyricum on growth, intestine antioxidant capacity and resistance to high temperature stress in kuruma shrimp Marsupenaeus japonicus. Journal of Thermal Biology, 2017, 66, 93-100.	1.1	63
70	A green porous solid carbon source supports denitrification in low C/N salinity wastewater. RSC Advances, 2017, 7, 18305-18310.	1.7	9
71	Effect of dietary Clostridium butyricum on growth, intestine health status and resistance to ammonia stress in Pacific white shrimp Litopenaeus vannamei. Fish and Shellfish Immunology, 2017, 65, 25-33.	1.6	121
72	Effects of dietary poly-Î²-hydroxybutyrate (PHB) on microbiota composition and the mTOR signaling pathway in the intestines of litopenaeus vannamei. Journal of Microbiology, 2017, 55, 946-954.	1.3	50

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73	Effect of dietary poly-Î²-hydroxybutyrate (PHB) on growth performance, intestinal health status and body composition ofÂPacificÂwhite shrimp Litopenaeus vannamei (Boone, 1931). Fish and Shellfish Immunology, 2017, 60, 520-528.	1.6	98
74	Artificial substrates in zero-water-exchange culture system regulate the rearing performance of Pacific white shrimpLitopenaeus vannamei(Boone, 1931) under the winter indoor condition. Aquaculture Research, 2016, 47, 91-100.	0.9	17
75	Effect of desiccation on oxidative stress and antioxidant response of the black tiger shrimp Penaeus monodon. Fish and Shellfish Immunology, 2016, 58, 10-17.	1.6	56
76	Detailed Analysis of the Solution Heat Treatment of a Third-Generation Single-Crystal Nickel-Based Superalloy CMSX-10KÂ®. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 889-906.	1.1	28
77	Effect of desiccation and resubmersion on the oxidative stress response of the kuruma shrimp Marsupenaeus japonicus. Fish and Shellfish Immunology, 2016, 49, 91-99.	1.6	51
78	Discontinuous Precipitation in Ni-Base Superalloys During Solution Heat Treatment. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4298-4315.	1.1	21
79	Microstructure, mechanical properties and static recrystallization behavior of the rolled ZK60 magnesium alloy sheets processed by electropulsing treatment. Journal of Alloys and Compounds, 2015, 646, 1-9.	2.8	45
80	Improved mechanical properties of AZ31 magnesium alloy sheets by repeated cold rolling and annealing using a small pass reduction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 637, 243-250.	2.6	57
81	Oxidative stress response of the black tiger shrimp Penaeus monodon to Vibrio parahaemolyticus challenge. Fish and Shellfish Immunology, 2015, 46, 354-365.	1.6	118
82	Biological denitrification in high salinity wastewater using semen litchi as a carbon source. RSC Advances, 2015, 5, 92836-92842.	1.7	10
83	Effect of Al on the Wetting Behavior Between TiC x and Molten Ti-Al Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4783-4792.	1.1	6
84	Recrystallization and microstructure evolution of the rolled Mgâ€“3Alâ€“1Zn alloy strips under electropulsing treatment. Journal of Alloys and Compounds, 2015, 622, 229-235.	2.8	58
85	Deep drawability and drawing behaviour of AZ31 alloy sheets with different initial texture. Journal of Alloys and Compounds, 2014, 615, 302-310.	2.8	53
86	Microstructure evolution and mechanical properties of twinned AZ31 alloy plates at lower elevated temperature. Journal of Alloys and Compounds, 2014, 615, 687-692.	2.8	58
87	Grain refining and improving mechanical properties of a warm rolled AZ31 alloy plate. Materials Letters, 2014, 135, 31-34.	1.3	30
88	Effects of processing technologies on mechanical properties of sic particulate reinforced magnesium matrix composites. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 769-772.	0.4	5
89	Investigation of the as-solidified microstructure of an Alâ€“Mgâ€“Siâ€“Cu alloy. Journal of Alloys and Compounds, 2014, 602, 312-321.	2.8	14
90	Microstructure and properties of the super-hydrophobic films fabricated on magnesium alloys. Journal of Alloys and Compounds, 2013, 554, 142-146.	2.8	43

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91	A Multi-Scale Approach to Simulate Solidification Structure Evolution and Solute Segregation in a Weld Pool. Journal of Algorithms and Computational Technology, 2013, 7, 489-507.	0.4	5
92	Grain Selection during Directional Solidification of Aero-Engine Turbine Blades. AIP Conference Proceedings, 2008, , .	0.3	3