Hong Yan

List of Publications by Year
in descending order

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109 papers	1,808 citations	304368 22 h-index	360668 35 g-index
109 all docs	109 docs citations	109 times ranked	1060 citing authors

#	Article	IF	Citations
1	Effects of rare earth Er additions on microstructure development and mechanical properties of die-cast ADC12 aluminum alloy. Journal of Alloys and Compounds, 2012, 538, 21-27.	2.8	120
2	Effect of samarium (Sm) addition on the microstructures and mechanical properties of Alâ€“7Siâ€“0.7Mg alloys. Journal of Alloys and Compounds, 2013, 567, 77-81.	2.8	87
3	Evolution of second phases and mechanical properties of 7075 Al alloy processed by solution heat treatment. Transactions of Nonferrous Metals Society of China, 2017, 27, 2146-2155.	1.7	86
4	Effect of Sm additions on the microstructure and corrosion behavior of magnesium alloy AZ91. Corrosion Science, 2019, 149, 144-152.	3.0	70
5	Solidâ€“liquid interface dynamics during solidification of Al 7075â€“Al2O3np based metal matrix composites. Materials and Design, 2016, 94, 148-158.	3.3	61
6	Effects of samarium addition on microstructure and mechanical properties of as-cast Al-Si-Cu alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 3228-3234.	1.7	53
7	Effects of surface microâ€“galvanic corrosion and corrosive film on the corrosion resistance of AZ91â€“xNd alloys. Applied Surface Science, 2021, 536, 147761.	3.1	50
8	Effects of the second phases on corrosion resistance of AZ91-xGd alloys treated with ultrasonic vibration. Journal of Alloys and Compounds, 2019, 783, 877-885.	2.8	49
9	Effect of trace La addition on the microstructure and mechanical property of as-cast ADC12 Al-Alloy. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 202-205.	0.4	47
10	Modification of eutectic silicon and Î²-Al5FeSi phases in as-cast ADC12 alloys by using samarium addition. Journal of Rare Earths, 2013, 31, 916-922.	2.5	47
11	Microstructure and properties of mullite-based porous ceramics produced from coal fly ash with added Al2O3. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 309-315.	2.4	40
12	Effect of rare earth Yb on microstructure and corrosion resistance of ADC12 aluminum alloy. Intermetallics, 2019, 110, 106487.	1.8	40
13	Numerical simulation of finish hard turning for AISI H13 die steel. Science and Technology of Advanced Materials, 2005, 6, 540-547.	2.8	35
14	Microstructure and mechanical properties of Al-7Si-0.7Mg alloy formed with an addition of (Pr+Ce). Journal of Rare Earths, 2017, 35, 412-418.	2.5	35
15	Modification of primary Î±-Al, eutectic silicon and Î²-Al5FeSi phases in as-cast AlSi10Cu3 alloys with (La+Yb) addition. Journal of Rare Earths, 2015, 33, 995-1003.	2.5	34
16	Morphological evolution of semi-solid Mg2Si/AM60 magnesium matrix composite produced by ultrasonic vibration process. Journal of Materials Processing Technology, 2014, 214, 612-619.	3.1	28
17	Fabrication of nanosized Al₂O₃ reinforced aluminum matrix composites by subtype multifrequency ultrasonic vibration. Journal of Materials Research, 2015, 30, 2197-2209.	1.2	27
18	Microstructure and mechanical properties of A356 alloy with yttrium addition processed by hot extrusion. Journal of Rare Earths, 2019, 37, 659-667.	2.5	27

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19	Thixotropic deformation behavior of semi-solid AZ61 magnesium alloy during compression process. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 132, 179-182.	1.7	26
20	Microstructure, microhardness and corrosion resistance of laser cladding Niâ€“WC coating on AlSi5Cu1Mg alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 2716-2728.	1.7	26
21	Effects of ultrasonic vibration on microstructure evolution and elevated-temperature mechanical properties of hot-extruded Mg-6Al-0.8Zn-2.0Sm wrought magnesium alloys. Journal of Alloys and Compounds, 2016, 685, 58-64.	2.8	25
22	Effect of heat treatment on wear properties of extruded AZ91 alloy treated with yttrium. Journal of Rare Earths, 2016, 34, 308-314.	2.5	25
23	Effects of Ti addition on microstructure and mechanical properties of 7075 alloy. International Journal of Cast Metals Research, 2015, 28, 151-157.	0.5	24
24	An approach to the optimal design of technological parameters in the profile extrusion process. Science and Technology of Advanced Materials, 2006, 7, 127-131.	2.8	22
25	Modification of near-eutectic Alâ€“Si alloys with rare earth element samarium. Journal of Materials Research, 2014, 29, 1270-1277.	1.2	22
26	Effect of T6 Heat Treatment on Microstructure and Hardness of Nanosized Al2O3 Reinforced 7075 Aluminum Matrix Composites. Metals, 2019, 9, 44.	1.0	22
27	Rheological behavior of semi-solid Mg2Si/AM60 magnesium matrix composites at steady state. Transactions of Nonferrous Metals Society of China, 2010, 20, s883-s887.	1.7	21
28	Fabrication of carbon nanotube reinforced A356 nanocomposites. Journal of Materials Research, 2016, 31, 2277-2283.	1.2	20
29	Microstructure and mechanical properties of AlSi10Cu3 alloy with (La+Yb) addition processed by heat treatment. Journal of Rare Earths, 2016, 34, 938-944.	2.5	20
30	Influence of Sm addition on microstructural and mechanical properties of as-extruded Mgâ€“9Liâ€“5Al alloy. Journal of Alloys and Compounds, 2020, 842, 155836.	2.8	20
31	Microstructure evolution of laser remelted Al2O3â€“13wt.%TiO2 coatings. Journal of Alloys and Compounds, 2013, 576, 187-194.	2.8	19
32	Fabrication of an A356/fly-ash-mullite interpenetrating composite and its wear properties. Ceramics International, 2017, 43, 12996-13003.	2.3	19
33	Microstructure and Mechanical Properties of CNTs/A356 Nanocomposites Fabricated by High-Intensity Ultrasonic Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 910-918.	1.1	18
34	Microstructure and mechanical properties of ADC12 composites reinforced with graphene nanoplates prepared by ultrasonic assisted casting. Transactions of Nonferrous Metals Society of China, 2020, 30, 3210-3225.	1.7	18
35	Constitutive behavior of Al2O3np/Al7075 composites with a high solid fraction for thixoforming. Journal of Alloys and Compounds, 2017, 708, 751-762.	2.8	17
36	Mechanical behavior of SiC foam-SiC particles/Al hybrid composites. Transactions of Nonferrous Metals Society of China, 2009, 19, s547-s551.	1.7	16

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37	Solidification behavior, microstructure and silicon twinning of Al-10Si alloys with ytterbium addition. Journal of Rare Earths, 2018, 36, 662-668.	2.5	16
38	Effects of Sm on microstructure and corrosion resistance of hot-extruded AZ61 magnesium alloys. Journal of Materials Research, 2015, 30, 3671-3681.	1.2	15
39	Preparation and theoretic study of semi-solid Al2Y/AZ91 magnesium matrix composites slurry by ultrasonic vibration. Journal of Rare Earths, 2014, 32, 573-579.	2.5	14
40	Influence of Sb modification on microstructures and mechanical properties of Mg2Si/AM60 composites. Transactions of Nonferrous Metals Society of China, 2010, 20, s411-s415.	1.7	13
41	Thixotropic compression deformation behavior of SiCp/AZ61 magnesium matrix composites. Transactions of Nonferrous Metals Society of China, 2010, 20, s811-s814.	1.7	13
42	Effects of La on Microstructure and Corrosion Behavior of AlSi5Cu1Mg Alloy. Acta Metallurgica Sinica (English Letters), 2019, 32, 443-451.	1.5	13
43	Effect of (PrÂ+ÂCe) addition and T6 heat treatment on microhardness and corrosion of AlSi5Cu1Mg alloy. Materials Research Express, 2020, 7, 026526.	0.8	13
44	Effect of the Addition of Rare Earth Element La on the Tribological Behaviour of AlSi5Cu1Mg Alloy. Applied Sciences (Switzerland), 2018, 8, 163.	1.3	12
45	Effect of Samarium on the Microstructure and Corrosion Resistance of AZ91 Magnesium Alloy Treated by Ultrasonic Vibration. Materials, 2018, 11, 2331.	1.3	12
46	Solidification Behavior and Microstructure of Al-7Si Alloys with Individual and Combined Additions of Sr and Yb. Advances in Materials Science and Engineering, 2019, 2019, 1-10.	1.0	12
47	Microstructure, microhardness and corrosion resistance of laser cladding Al2O3@Ni composite coating on 304 stainless steel. Journal of Materials Science, 2021, 56, 8209-8224.	1.7	12
48	Effect of hot extrusion on microstructure and tribological behavior of Al2O3p reinforced 7075 aluminum-matrix composites. Journal of Central South University, 2021, 28, 2269-2284.	1.2	12
49	Regulating microstructure, mechanical properties and electrochemical characteristic of 2024-CNTs aluminum composites via decorating nano Ni on the surface of CNTs. Diamond and Related Materials, 2022, 126, 109132.	1.8	12
50	Effects of neodymium addition on microstructure and mechanical properties of near-eutectic Alâ€“12Si alloys. Transactions of Nonferrous Metals Society of China, 2015, 25, 3877-3885.	1.7	11
51	Effect of nanoparticle Al2O3addition on microstructure and mechanical properties of 7075 alloy. International Journal of Cast Metals Research, 2015, 28, 337-344.	0.5	11
52	Preparation of Alâ€“La master alloy by ultrasonic method and modification on Al alloy. Rare Metals, 2015, 34, 457-462.	3.6	11
53	Fabrication of Carbon Nanofibers/A356 Nanocomposites by High-Intensity Ultrasonic Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2363-2372.	1.1	11
54	Wear Behavior of Extruded Nano-SiCp Reinforced AZ61 Magnesium Matrix Composites. Advances in Mechanical Engineering, 2013, 5, 489528.	0.8	11

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55	Microstructure, wettability, and mechanical properties of ADC12 alloy reinforced with TiO2-coated carbon nanotubes. Journal of Alloys and Compounds, 2022, 897, 163181.	2.8	11
56	Impact of rare earth element la on microstructure and hot crack resistance of ADC12 alloy. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 193-197.	0.4	10
57	Effect of Trace Yttrium Addition and Heat Treatment on the Microstructure and Mechanical Properties of As-Cast ADC12 Aluminum Alloy. Applied Sciences (Switzerland), 2019, 9, 53.	1.3	10
58	Effect of Ultrasonic Treatment during Solidification on Corrosion Behavior of Mg-3Al-1Zn and Mg-4Zn Magnesium Alloys. Journal of the Electrochemical Society, 2020, 167, 161505.	1.3	10
59	Effect of sample diameter on primary and secondary dendrite arm spacings during directional solidification of Pb-26wt.%Bi hypo-peritectic alloy. Rare Metals, 2011, 30, 424-431.	3.6	9
60	Calculation of thermodynamic parameters of Mg-Al-Y alloy. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 374-378.	0.4	9
61	Effects of Heat Treatment on the Tribological Properties of Sicp/Al-5Si-1Cu-0.5Mg Composite Processed by Electromagnetic Stirring Method. Applied Sciences (Switzerland), 2018, 8, 372.	1.3	9
62	The Effects of Rare Earth Pr and Heat Treatment on the Wear Properties of AZ91 Alloy. Crystals, 2018, 8, 256.	1.0	9
63	Microstructure and Gd-rich phase evolution of as-cast AZ31-xGd magnesium alloys during semi-solid isothermal heat treatment. Journal of Central South University, 2021, 28, 1-15.	1.2	9
64	Fluidity of ADC12Â+ÂxLa aluminum alloys. Rare Metals, 2021, 40, 1191-1197.	3.6	9
65	Fabrication of Carbon Nanotubes and Rare Earth Pr Reinforced AZ91 Composites by Powder Metallurgy. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	9
66	First-principles study of Al 2 Sm intermetallic compound on structural, mechanical properties and electronic structure. Solid State Communications, 2017, 251, 98-103.	0.9	8
67	Rheological behavior of semi-solid AZ91D magnesium alloy at steady state. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 162-165.	0.4	7
68	Corrosion behavior of SiC foam ceramic reinforced Alâ€“23Si composites in NaCl solution. Journal of Central South University, 2017, 24, 1934-1940.	1.2	7
69	Enhancing Wear Resistance of A356 Alloy by Adding CNFs Based on Ultrasonic Vibration Casting. Acta Metallurgica Sinica (English Letters), 2018, 31, 523-532.	1.5	7
70	Processing and Properties of CNTs/ADC12 Nanocomposite. Journal of Materials Engineering and Performance, 2018, 27, 6737-6747.	1.2	7
71	Effect of Heat Treatment on the Microstructure and Mechanical Properties of a Composite Made of Al-Si-Cu-Mg Aluminum Alloy Reinforced with SiC Particles. Metals, 2019, 9, 1205.	1.0	7
72	Microstructure and tribological properties of Al 7075-TiO2@CNTs composites under T6 treatment. Vacuum, 2022, 199, 110949.	1.6	7

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73	Development of flow stress of AISI H13 die steel in hard machining. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 187-190.	0.4	6
74	Dry friction and wear performance of co-continuous Al-23Si/SiC composites. Materials Research Innovations, 2015, 19, S9-131-S9-135.	1.0	6
75	Rheological study of semi-solid TiAl3/ZL101 composites prepared by ultrasonic vibration. International Journal of Materials Research, 2015, 106, 1244-1249.	0.1	6
76	Effect of Sm-Rich Phase on Corrosion Behavior of Hot-Extruded AZ31-1.5Sm Magnesium Alloy. Journal of Materials Engineering and Performance, 2018, 27, 3072-3082.	1.2	6
77	Effects of Yb Addition on the Microstructure and Mechanical Properties of As-Cast ADC12 Alloy. Metals, 2019, 9, 108.	1.0	6
78	Effect of (La+Yb) addition on the fluidity of an A356.2 aluminum alloy. International Journal of Cast Metals Research, 2019, 32, 59-66.	0.5	6
79	The effect of Sr on the microstructure and wear properties of AlSi5Cu1Mg alloy. Advances in Mechanical Engineering, 2018, 10, 168781401881953.	0.8	5
80	Microstructure and mechanical properties of strontium-modified ADC12 alloy processed by heat treatment. Journal of Central South University, 2018, 25, 1263-1273.	1.2	5
81	Effect of (Pr+Ce) Additions on Microstructure and Mechanical Properties of AlSi5Cu1Mg Alloy. Applied Sciences (Switzerland), 2019, 9, 1856.	1.3	5
82	Microstructure and corrosion behavior of as-cast ADC12 alloy with rare earth Yb addition and hot extrusion. Journal of Central South University, 2020, 27, 1654-1665.	1.2	5
83	Effect of solution treatment on microstructure and hardness of rheo-forming AZ91-Y alloy. China Foundry, 2016, 13, 383-388.	0.5	4
84	Effects of (Prâ€‰+â€‰Ce) Addition and Heat Treatments on Microstructure and Mechanical Properties of Al-5Si-1.2Cu Alloy. Journal of Materials Engineering and Performance, 2020, 29, 1810-1819.	1.2	4
85	Microstructure and mechanical properties of die-casting ADC12+x(La+Yb) alloy. International Journal of Cast Metals Research, 2020, 33, 80-88.	0.5	4
86	Rheological Research of Semi-Solid AlSi7Mg Slurry by High-Energy Ultrasound and Cerium Addition. Journal of Materials Engineering and Performance, 2021, 30, 8589-8597.	1.2	4
87	Effect of TiO2@Carbon Nanotubes and Praseodymium on the Microhardness and Corrosion Properties of AZ91 Alloy. Metals and Materials International, 2022, 28, 2012-2022.	1.8	4
88	Research of rheo model of semi-solid Mg<inf>2</inf>Si/AM60 magnesium matrix composites. , 2010, , .		3
89	Fabrication of Al7075â€“Al₂O_{3np}-based metal matrix composites with a high solid fraction for thixoforming. Journal of Materials Research, 2018, 33, 4349-4361.	1.2	3
90	Microstructure and corrosion behavior of Al3Ti/ADC12 composite modified with Sr. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 840-848.	2.4	3

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91	Effect of adding rare-earth cerium on the microstructure and acid rain corrosion resistance of the ADC12 alloy. International Journal of Materials Research, 2021, 112, 241-249.	0.1	3
92	Al₃Ti/ADC12 Composite Synthesized by Ultrasonic Chemistry in Situ Reaction. Science and Engineering of Composite Materials, 2020, 27, 10-18.	0.6	3
93	Test and Finite Element Analysis of a New Type of Double-Limb Double-Plate Connection Joint in Narrow Base Tower. Materials, 2021, 14, 5936.	1.3	3
94	Tensile Property and Corrosion Behavior of Die-Casting AlSi10Cu3+0.6wt% (La + Yb) Alloy with T6 Heat Treatment. International Journal of Metalcasting, 2022, 16, 2210-2220.	1.5	3
95	Effects of ultrasonic field on microstructures and properties of semi-solid AZ91D magnesium alloy. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 555-560.	0.4	2
96	A Constitutive Model for Thixotropic Plastic Forming of Composites. Advanced Materials Research, 2010, 154-155, 690-693.	0.3	2
97	Effects of Rare Earth Pr/Ce on Tribological Behavior of ADC12 Alloy. Journal Wuhan University of Technology, Materials Science Edition, 2021, 36, 136-142.	0.4	2
98	Influence of Double-Limb Double-Plate Connection on Stable Bearing Capacity of Quadrilateral Transmission Tower. Applied Sciences (Switzerland), 2021, 11, 12024.	1.3	2
99	Heat Treatment Behavior, Microstructure and Mechanical Properties of TiO2@CNTs/7075 Al Composites Fabricated by Ultrasonic-Assisted Casting. Transactions of the Indian Institute of Metals, 2022, 75, 2875-2882.	0.7	2
100	Study on Thixo-Extrusion of Semi-Solid Wrought Magnesium Alloy. Key Engineering Materials, 2008, 367, 103-106.	0.4	1
101	Study on Semi-Solid Magnesium Alloy Produced by Mechanical Stirring. Advanced Materials Research, 0, 146-147, 1723-1728.	0.3	1
102	Thermodynamics and kinetics of in-situ formation of TiAl3/7075 composites. Journal Wuhan University of Technology, Materials Science Edition, 2013, 28, 598-603.	0.4	1
103	Rheological model of semisolid Mg2Si/AM60 composites prepared by ultrasonic vibration treatment. Rare Metals, 2015, , 1.	3.6	1
104	Compression deformation behavior of semisolid Al₂O_{3np} reinforced 7075 aluminum matrix composites with high solid fraction. Journal of Materials Research, 2016, 31, 3981-3990.	1.2	1
105	Effect of heat treatment and extrusion on wear properties of AZ91-Pr alloy. International Journal of Materials Research, 2019, 110, 1025-1031.	0.1	1
106	Influence of hot extrusion on the microstructure and mechanical properties of Al₂O₃/7075 aluminum matrix composites. International Journal of Materials Research, 2022, 113, 161-171.	0.1	1
107	Research on Semi-Solid Y112 Alloy Fabricated by Mechanical Stirring. Advanced Materials Research, 2010, 139-141, 657-660.	0.3	0
108	Microstructure and mechanical properties of SiCp/ZL105 composite prepared by electromagnetic stirring. Advances in Mechanical Engineering, 2018, 10, 168781401882100.	0.8	0

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109	Rheological Research of the Semisolid ADC12 Slurry Prepared with High-Energy Ultrasound and Pr/Ce Addition. Transactions of the Indian Institute of Metals, 2022, 75, 495-502.	0.7	0