

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
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109
all docs

109
docs citations

109
times ranked

1060
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Effect of TiO ₂ @Carbon Nanotubes and Praseodymium on the Microhardness and Corrosion Properties of AZ91 Alloy. Metals and Materials International, 2022, 28, 2012-2022.	1.8	4
3	Microstructure, wettability, and mechanical properties of ADC12 alloy reinforced with TiO ₂ -coated carbon nanotubes. Journal of Alloys and Compounds, 2022, 897, 163181.	2.8	11
4	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
5	Microstructure and tribological properties of Al 7075-TiO ₂ @CNTs composites under T6 treatment. Vacuum, 2022, 199, 110949.	1.6	7
6	Influence of hot extrusion on the microstructure and mechanical properties of Al ₂ O ₃ /7075 aluminum matrix composites. International Journal of Materials Research, 2022, 113, 161-171.	0.1	1
7	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
8	Heat Treatment Behavior, Microstructure and Mechanical Properties of TiO ₂ @CNTs/7075 Al Composites Fabricated by Ultrasonic-Assisted Casting. Transactions of the Indian Institute of Metals, 2022, 75, 2875-2882.	0.7	2
9	Effects of surface micro-galvanic corrosion and corrosive film on the corrosion resistance of AZ91-xNd alloys. Applied Surface Science, 2021, 536, 147761.	3.1	50
10	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
11	Fluidity of ADC12+La aluminum alloys. Rare Metals, 2021, 40, 1191-1197.	3.6	9
12	Microstructure, microhardness and corrosion resistance of laser cladding Al ₂ O ₃ @Ni composite coating on 304 stainless steel. Journal of Materials Science, 2021, 56, 8209-8224.	1.7	12
13	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
14	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
15	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
16	Effect of hot extrusion on microstructure and tribological behavior of Al ₂ O ₃ p reinforced 7075 aluminum-matrix composites. Journal of Central South University, 2021, 28, 2269-2284.	1.2	12
17	Microstructure, microhardness and corrosion resistance of laser cladding Ni-WC coating on AlSi5Cu1Mg alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 2716-2728.	1.7	26
18	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

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19	Test and Finite Element Analysis of a New Type of Double-Limb Double-Plate Connection Joint in Narrow Base Tower. <i>Materials</i> , 2021, 14, 5936.	1.3	3
20	Influence of Double-Limb Double-Plate Connection on Stable Bearing Capacity of Quadrilateral Transmission Tower. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12024.	1.3	2
21	Microstructure and corrosion behavior of as-cast ADC12 alloy with rare earth Yb addition and hot extrusion. <i>Journal of Central South University</i> , 2020, 27, 1654-1665.	1.2	5
22	Influence of Sm addition on microstructural and mechanical properties of as-extruded Mg-9Li-5Al alloy. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155836.	2.8	20
23	Effects of (Pr+Ce) Addition and Heat Treatments on Microstructure and Mechanical Properties of Al-5Si-1.2Cu Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 1810-1819.	1.2	4
24	Effect of (Pr+Ce) addition and T6 heat treatment on microhardness and corrosion of AlSi5Cu1Mg alloy. <i>Materials Research Express</i> , 2020, 7, 026526.	0.8	13
25	Microstructure and mechanical properties of die-casting ADC12+x(La+Yb) alloy. <i>International Journal of Cast Metals Research</i> , 2020, 33, 80-88.	0.5	4
26	Microstructure and mechanical properties of ADC12 composites reinforced with graphene nanoplates prepared by ultrasonic assisted casting. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 3210-3225.	1.7	18
27	Effect of Ultrasonic Treatment during Solidification on Corrosion Behavior of Mg-3Al-1Zn and Mg-4Zn Magnesium Alloys. <i>Journal of the Electrochemical Society</i> , 2020, 167, 161505.	1.3	10
28	Al ₃ Ti/ADC12 Composite Synthesized by Ultrasonic Chemistry in Situ Reaction. <i>Science and Engineering of Composite Materials</i> , 2020, 27, 10-18.	0.6	3
29	Effects of La on Microstructure and Corrosion Behavior of AlSi5Cu1Mg Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 443-451.	1.5	13
30	Effect of Trace Yttrium Addition and Heat Treatment on the Microstructure and Mechanical Properties of As-Cast ADC12 Aluminum Alloy. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 53.	1.3	10
31	Effect of T6 Heat Treatment on Microstructure and Hardness of Nanosized Al ₂ O ₃ Reinforced 7075 Aluminum Matrix Composites. <i>Metals</i> , 2019, 9, 44.	1.0	22
32	Effect of rare earth Yb on microstructure and corrosion resistance of ADC12 aluminum alloy. <i>Intermetallics</i> , 2019, 110, 106487.	1.8	40
33	Effect of (Pr+Ce) Additions on Microstructure and Mechanical Properties of AlSi5Cu1Mg Alloy. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1856.	1.3	5
34	Effects of Yb Addition on the Microstructure and Mechanical Properties of As-Cast ADC12 Alloy. <i>Metals</i> , 2019, 9, 108.	1.0	6
35	Solidification Behavior and Microstructure of Al-7Si Alloys with Individual and Combined Additions of Sr and Yb. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-10.	1.0	12
36	Microstructure and mechanical properties of A356 alloy with yttrium addition processed by hot extrusion. <i>Journal of Rare Earths</i> , 2019, 37, 659-667.	2.5	27

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37	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. <i>Metals</i> , 2019, 9, 1205.	1.0	7
38	Effect of Sm additions on the microstructure and corrosion behavior of magnesium alloy AZ91. <i>Corrosion Science</i> , 2019, 149, 144-152.	3.0	70
39	Effects of the second phases on corrosion resistance of AZ91-xGd alloys treated with ultrasonic vibration. <i>Journal of Alloys and Compounds</i> , 2019, 783, 877-885.	2.8	49
40	Effect of (La+Yb) addition on the fluidity of an A356.2 aluminum alloy. <i>International Journal of Cast Metals Research</i> , 2019, 32, 59-66.	0.5	6
41	Effect of heat treatment and extrusion on wear properties of AZ91-Pr alloy. <i>International Journal of Materials Research</i> , 2019, 110, 1025-1031.	0.1	1
42	Solidification behavior, microstructure and silicon twinning of Al-10Si alloys with ytterbium addition. <i>Journal of Rare Earths</i> , 2018, 36, 662-668.	2.5	16
43	Impact of rare earth element la on microstructure and hot crack resistance of ADC12 alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 193-197.	0.4	10
44	Enhancing Wear Resistance of A356 Alloy by Adding CNFs Based on Ultrasonic Vibration Casting. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 523-532.	1.5	7
45	Fabrication of Carbon Nanofibers/A356 Nanocomposites by High-Intensity Ultrasonic Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2363-2372.	1.1	11
46	Microstructure and mechanical properties of SiCp/ZL105 composite prepared by electromagnetic stirring. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401882100.	0.8	0
47	The effect of Sr on the microstructure and wear properties of AlSi5Cu1Mg alloy. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401881953.	0.8	5
48	Processing and Properties of CNTs/ADC12 Nanocomposite. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6737-6747.	1.2	7
49	Effect of the Addition of Rare Earth Element La on the Tribological Behaviour of AlSi5Cu1Mg Alloy. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 163.	1.3	12
50	Effect of Samarium on the Microstructure and Corrosion Resistance of AZ91 Magnesium Alloy Treated by Ultrasonic Vibration. <i>Materials</i> , 2018, 11, 2331.	1.3	12
51	Fabrication of Al ₇₀ Fe ₅ Al ₂₀ O ₃ -based metal matrix composites with a high solid fraction for thixoforming. <i>Journal of Materials Research</i> , 2018, 33, 4349-4361.	1.2	3
52	Microstructure and mechanical properties of strontium-modified ADC12 alloy processed by heat treatment. <i>Journal of Central South University</i> , 2018, 25, 1263-1273.	1.2	5
53	Effects of Heat Treatment on the Tribological Properties of SiCp/Al-5Si-1Cu-0.5Mg Composite Processed by Electromagnetic Stirring Method. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 372.	1.3	9
54	The Effects of Rare Earth Pr and Heat Treatment on the Wear Properties of AZ91 Alloy. <i>Crystals</i> , 2018, 8, 256.	1.0	9

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55	Microstructure and corrosion behavior of Al ₃ Ti/ADC12 composite modified with Sr. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 840-848.	2.4	3
56	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
57	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
58	Constitutive behavior of Al ₂ O ₃ np/Al7075 composites with a high solid fraction for thixoforming. Journal of Alloys and Compounds, 2017, 708, 751-762.	2.8	17
59	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
60	Microstructure and properties of mullite-based porous ceramics produced from coal fly ash with added Al ₂ O ₃ . International Journal of Minerals, Metallurgy and Materials, 2017, 24, 309-315.	2.4	40
61	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
62	Corrosion behavior of SiC foam ceramic reinforced Al-23Si composites in NaCl solution. Journal of Central South University, 2017, 24, 1934-1940.	1.2	7
63	Fabrication of an A356/fly-ash-mullite interpenetrating composite and its wear properties. Ceramics International, 2017, 43, 12996-13003.	2.3	19
64	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
65	Effect of solution treatment on microstructure and hardness of rheo-forming AZ91-Mg alloy. China Foundry, 2016, 13, 383-388.	0.5	4
66	Fabrication of carbon nanotube reinforced A356 nanocomposites. Journal of Materials Research, 2016, 31, 2277-2283.	1.2	20
67	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
68	Compression deformation behavior of semisolid Al ₂ O ₃ np reinforced 7075 aluminum matrix composites with high solid fraction. Journal of Materials Research, 2016, 31, 3981-3990.	1.2	1
69	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
70	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
71	Solid-liquid interface dynamics during solidification of Al ₇₀₇₅ -Al ₂ O ₃ np based metal matrix composites. Materials and Design, 2016, 94, 148-158.	3.3	61
72	Fabrication of nanosized Al ₂ O ₃ reinforced aluminum matrix composites by subtype multifrequency ultrasonic vibration. Journal of Materials Research, 2015, 30, 2197-2209.	1.2	27

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73	Effects of Sm on microstructure and corrosion resistance of hot-extruded AZ61 magnesium alloys. <i>Journal of Materials Research</i> , 2015, 30, 3671-3681.	1.2	15
74	Rheological model of semisolid Mg2Si/AM60 composites prepared by ultrasonic vibration treatment. <i>Rare Metals</i> , 2015, , 1.	3.6	1
75	Effects of neodymium addition on microstructure and mechanical properties of near-eutectic Al-12Si alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3877-3885.	1.7	11
76	Dry friction and wear performance of co-continuous Al-23Si/SiC composites. <i>Materials Research Innovations</i> , 2015, 19, S9-131-S9-135.	1.0	6
77	Modification of primary β -Al, eutectic silicon and β -Al5FeSi phases in as-cast AlSi10Cu3 alloys with (La+Yb) addition. <i>Journal of Rare Earths</i> , 2015, 33, 995-1003.	2.5	34
78	Effect of nanoparticle Al2O3 addition on microstructure and mechanical properties of 7075 alloy. <i>International Journal of Cast Metals Research</i> , 2015, 28, 337-344.	0.5	11
79	Rheological study of semi-solid TiAl3/ZL101 composites prepared by ultrasonic vibration. <i>International Journal of Materials Research</i> , 2015, 106, 1244-1249.	0.1	6
80	Rheological behavior of semi-solid AZ91D magnesium alloy at steady state. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2015, 30, 162-165.	0.4	7
81	Effects of Ti addition on microstructure and mechanical properties of 7075 alloy. <i>International Journal of Cast Metals Research</i> , 2015, 28, 151-157.	0.5	24
82	Preparation of Al-La master alloy by ultrasonic method and modification on Al alloy. <i>Rare Metals</i> , 2015, 34, 457-462.	3.6	11
83	Modification of near-eutectic Al-Si alloys with rare earth element samarium. <i>Journal of Materials Research</i> , 2014, 29, 1270-1277.	1.2	22
84	Morphological evolution of semi-solid Mg2Si/AM60 magnesium matrix composite produced by ultrasonic vibration process. <i>Journal of Materials Processing Technology</i> , 2014, 214, 612-619.	3.1	28
85	Calculation of thermodynamic parameters of Mg-Al-Y alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 374-378.	0.4	9
86	Preparation and theoretic study of semi-solid Al2Y/AZ91 magnesium matrix composites slurry by ultrasonic vibration. <i>Journal of Rare Earths</i> , 2014, 32, 573-579.	2.5	14
87	Thermodynamics and kinetics of in-situ formation of TiAl3/7075 composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 598-603.	0.4	1
88	Effect of trace La addition on the microstructure and mechanical property of as-cast ADC12 Al-Alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 202-205.	0.4	47
89	Effects of samarium addition on microstructure and mechanical properties of as-cast Al-Si-Cu alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 3228-3234.	1.7	53
90	Modification of eutectic silicon and β -Al5FeSi phases in as-cast ADC12 alloys by using samarium addition. <i>Journal of Rare Earths</i> , 2013, 31, 916-922.	2.5	47

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91	Effect of samarium (Sm) addition on the microstructures and mechanical properties of Al-7Si-0.7Mg alloys. Journal of Alloys and Compounds, 2013, 567, 77-81.	2.8	87
92	Microstructure evolution of laser remelted Al ₂ O ₃ -13wt.%TiO ₂ coatings. Journal of Alloys and Compounds, 2013, 576, 187-194.	2.8	19
93	Wear Behavior of Extruded Nano-SiCp Reinforced AZ61 Magnesium Matrix Composites. Advances in Mechanical Engineering, 2013, 5, 489528.	0.8	11
94	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
95	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
96	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
97	A Constitutive Model for Thixotropic Plastic Forming of Composites. Advanced Materials Research, 2010, 154-155, 690-693.	0.3	2
98	Research on Semi-Solid Y112 Alloy Fabricated by Mechanical Stirring. Advanced Materials Research, 2010, 139-141, 657-660.	0.3	0
99	Research of rheo model of semi-solid Mg ₂ Si/AM60 magnesium matrix composites. , 2010, , .		3
100	Influence of Sb modification on microstructures and mechanical properties of Mg ₂ Si/AM60 composites. Transactions of Nonferrous Metals Society of China, 2010, 20, s411-s415.	1.7	13
101	Thixotropic compression deformation behavior of SiCp/AZ61 magnesium matrix composites. Transactions of Nonferrous Metals Society of China, 2010, 20, s811-s814.	1.7	13
102	Rheological behavior of semi-solid Mg ₂ Si/AM60 magnesium matrix composites at steady state. Transactions of Nonferrous Metals Society of China, 2010, 20, s883-s887.	1.7	21
103	Mechanical behavior of SiC foam-SiC particles/Al hybrid composites. Transactions of Nonferrous Metals Society of China, 2009, 19, s547-s551.	1.7	16
104	Study on Thixo-Extrusion of Semi-Solid Wrought Magnesium Alloy. Key Engineering Materials, 2008, 367, 103-106.	0.4	1
105	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
106	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
107	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
108	Numerical simulation of finish hard turning for AISI H13 die steel. Science and Technology of Advanced Materials, 2005, 6, 540-547.	2.8	35

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109	Study on Semi-Solid Magnesium Alloy Produced by Mechanical Stirring. Advanced Materials Research, 0, 146-147, 1723-1728.	0.3	1