Feng Wang

List of Publications by Year
in descending order

61 papers	1,098 citations	430442 18 h-index	476904 29 g-index
61 all docs	61 docs citations	61 times ranked	382 citing authors

#	Article	IF	Citations
1	Monte Carlo study of magnetic and thermodynamic properties of a ferrimagnetic mixed-spin (1, 3/2) Ising nanowire with hexagonal core-shell structure. Journal of Alloys and Compounds, 2017, 701, 935-949.	2.8	105
2	First-principles calculations of structural, elastic and electronic properties of AB2 type intermetallics in Mgâ€“Znâ€“Caâ€“Cu alloy. Journal of Magnesium and Alloys, 2013, 1, 256-262.	5.5	64
3	Magnetic and thermodynamic properties of a ternary metal nanoisland: A Monte Carlo study. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 319-335.	1.2	49
4	Magnetic properties in graphene-like nanoisland bilayer: Monte Carlo study. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 112, 86-95.	1.3	41
5	Compensation and critical characteristics of the ferrimagnetic bilayer graphdiyne film with RKKY interaction. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	39
6	Effects of Y on hot tearing susceptibility of Mgâ€“Znâ€“Yâ€“Zr alloys. Transactions of Nonferrous Metals Society of China, 2014, 24, 907-914.	1.7	38
7	Mechanical, electronic and thermodynamic properties of Mg2Ca Laves phase under high pressure: A first-principles calculation. Computational Materials Science, 2014, 88, 61-70.	1.4	38
8	Influence of pre-twinning on high strain rate compressive behavior of AZ31 Mg-alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 309-317.	2.6	35
9	Monte Carlo study of magnetization plateaus and thermodynamic properties of a nano-graphene with a sandwich-like structure in a longitudinal magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 116, 113721.	1.3	34
10	Monte Carlo study of magnetic behaviors in a ferrimagnetic Ising ladder-like boronene nanoribbon. Superlattices and Microstructures, 2021, 151, 106833.	1.4	32
11	Effects of combined addition of Y and Ca on microstructure and mechanical properties of die casting AZ91 alloy. Transactions of Nonferrous Metals Society of China, 2010, 20, s311-s317.	1.7	31
12	First principles investigation of binary intermetallics in Mgâ€“Alâ€“Caâ€“Sn alloy: Stability, electronic structures, elastic properties and thermodynamic properties. Transactions of Nonferrous Metals Society of China, 2016, 26, 203-212.	1.7	30
13	Study on magnetic behaviors in a diluted ferrimagnetic Ising graphene nanoribbon. Superlattices and Microstructures, 2020, 147, 106701.	1.4	30
14	Magnetic behaviors in a ternary metallic nanoisland with bilayer hexagonal core-shell structure. Journal of Physics and Chemistry of Solids, 2019, 135, 109110.	1.9	29
15	Monte Carlo study of an Ising nanoisland with bilayer graphene-like structure in a longitudinal magnetic field. Journal of Physics and Chemistry of Solids, 2020, 136, 109174.	1.9	26
16	Microstructure and mechanical properties of Mg-Zn-Ca-Zr alloy fabricated by hot extrusion-shearing process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139937.	2.6	26
17	Insight into magnetic properties and magnetocaloric effect of an Ising-type polyhedral chain. Polymer, 2022, 246, 124756.	1.8	26
18	Nucleation and growth analysis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mo stretchy="true">{</mml:mo><mml:mn>10</mml:mn><mml:mrow><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mo>â€¾</mml:mo></mml:mover></mml:mrow><mml:mn>2</mml:mn><mml:mo stretchy="true">}</mml:mo></mml:mrow></mml:math> extension twins in AZ31 magnesium alloy during in-situ tension. Journal of Alloys and Compounds, 2020, 817, 152967.	2.8	23

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19	Effect of long-period stacking ordered phase on hot tearing susceptibility of Mgâ€“1Znâ€“xY alloys. Journal of Magnesium and Alloys, 2020, 8, 1176-1185.	5.5	21
20	Fabrication of fine-grained, high strength and toughness Mg alloy by extrusionâˆ'shearing process. Transactions of Nonferrous Metals Society of China, 2021, 31, 666-678.	1.7	19
21	First-principles study of the lattice vibration, elastic anisotropy and thermodynamical properties of Tantalum Silicide with the different crystal structures. Vacuum, 2021, 191, 110410.	1.6	19
22	Dynamic magnetic behaviors of a double-layer core/shell graphene nanoribbon in a time-dependent magnetic field. Results in Physics, 2020, 19, 103573.	2.0	17
23	Effect of Cu Additions on Microstructure, Mechanical Properties and Hot-Tearing Susceptibility of Mg-6Zn-0.6Zr Alloys. Journal of Materials Engineering and Performance, 2016, 25, 5530-5539.	1.2	16
24	Effect of Yttrium on Hot Tearing Susceptibility of Mgâ€“6Znâ€“1Cuâ€“0.6Zr Alloys. International Journal of Metalcasting, 2020, 14, 179-190.	1.5	16
25	Hot Tearing Susceptibility of AXJ530 Alloy Under Low-Frequency Alternating Magnetic Field. Acta Metallurgica Sinica (English Letters), 2020, 33, 1259-1270.	1.5	16
26	Effects of Copper Content and Mold Temperature on the Hot Tearing Susceptibility of Mg-7Zn-xCu-0.6Zr Alloys. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3444-3455.	1.0	15
27	Microstructure, mechanical properties, and texture evolution of Mgâ€“Znâ€“Yâ€“Zr alloy fabricated by hot extrusionâ€“shearing process. Journal of Materials Science, 2020, 55, 375-388.	1.7	15
28	Effect of low frequency alternating magnetic field on hot tearing susceptibility of Mg-7Zn-1Cu-0.6Zr magnesium alloy. Journal of Materials Processing Technology, 2020, 282, 116679.	3.1	15
29	Effect of Ca/Al ratio on hot tearing susceptibility of Mgâ€“Alâ€“Ca alloy. Journal of Alloys and Compounds, 2022, 911, 165113.	2.8	15
30	Microstructure, Tensile Properties, and Corrosion Behavior of Die-Cast Mg-7Al-1Ca-xSn Alloys. Journal of Materials Engineering and Performance, 2018, 27, 612-623.	1.2	14
31	Investigation of the microstructure and properties of extrusion-shear deformed ZC61 magnesium alloy under high strain rate deformation. Materials Characterization, 2021, 172, 110839.	1.9	14
32	Effect of addition of minor amounts of Sb and Gd on hot tearing susceptibility of Mg-5Al-3Ca alloy. Journal of Magnesium and Alloys, 2023, 11, 694-705.	5.5	14
33	Effect of Cu on microstructure, mechanical properties, and texture evolution of ZK60 alloy fabricated by hot extrusionâˆ'shearing process. Transactions of Nonferrous Metals Society of China, 2020, 30, 1511-1523.	1.7	13
34	Influences of Ca and Y Addition on the Microstructure and Corrosion Resistance of Vacuum Die-Cast AZ91 Alloy. Acta Metallurgica Sinica (English Letters), 2014, 27, 609-614.	1.5	11
35	Microstructure, mechanical properties and first-principle analysis of vacuum die-cast Mgâ€“7Al alloy with Sn addition. Rare Metals, 2022, 41, 1961-1967.	3.6	11
36	Effect of Pouring and Mold Temperatures on Hot Tearing Susceptibility of WE43 Magnesium Alloy. International Journal of Metalcasting, 2021, 15, 576-586.	1.5	11

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37	Gating System Design Based on Numerical Simulation and Production Experiment Verification of Aluminum Alloy Bracket Fabricated by Semi-solid Rheo-Die Casting Process. International Journal of Metalcasting, 2022, 16, 878-893.	1.5	11
38	Influence of Nd on Hot Tearing Susceptibility and Mechanism of Mg-Zn-Y-Zr Alloys. Journal of Materials Engineering and Performance, 2020, 29, 6714-6726.	1.2	9
39	Effect of yttrium addition on dynamic mechanical properties, microstructure, and fracture behavior of extrusion-shear ZC61Â+ÂxY (xÂ=Â0, 1, 2, 3) alloys. Materials Characterization, 2020, 169, 110615.	1.9	9
40	Hot Tearing Behavior of $$ext{Mg}{-}4ext{Zn}{-}xext{Sn}{-}0.6ext{Zr}$$ Alloys. International Journal of Metalcasting, 2021, 15, 292-305.	1.5	9
41	Compressive deformation behavior of ultrafine-grained Mg-3Zn-1.2Ca-0.6Zr alloy at room temperature. Journal of Alloys and Compounds, 2021, 871, 159581.	2.8	9
42	Effects of Alternating Magnetic Field on the Hot Tearing Susceptibility and Microstructure of Al-5Cu Alloy. International Journal of Metalcasting, 2023, 17, 373-385.	1.5	8
43	Enhanced strengthening by two-step progressive solution and aging treatment in AM50âˆ'4%(Zn,Y) magnesium alloy. Transactions of Nonferrous Metals Society of China, 2018, 28, 2419-2426.	1.7	7
44	Dynamic compressive behaviour and microstructural evolution of extrusion-shear deformed ZC61 alloy. Materials Science and Technology, 2020, 36, 1148-1161.	0.8	7
45	Effect of Ca Content on Hot Tearing Susceptibility of Mg-4Zn-xCa-0.3Zr (xâ€‰=â€‰0.5, 1, 1.5, 2) Alloys. International Journal of Metalcasting, 2021, 15, 1298-1308.	1.5	7
46	Quasi-in-situ investigation on extension twinning behavior of extruded ZC61 alloy during dynamic compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141992.	2.6	7
47	Effect of Y content on hot tearing susceptibility and mechanical properties of AXJ530-xY alloys. Materials Research Express, 2019, 6, 106508.	0.8	6
48	Influence of a low-frequency alternating magnetic field on hot tearing susceptibility of EV31 magnesium alloy. China Foundry, 2021, 18, 229-238.	0.5	6
49	Effect of Sn addition on hot tearing susceptibility of AXJ530 alloy. Materials Research Express, 2018, 5, 036513.	0.8	5
50	An investigation on hot tearing of AZ91 alloys with yttrium additions. Materials Research Express, 2019, 6, 016554.	0.8	4
51	Effects of Zn Content on Hot Tearing Susceptibility of Mgâ€“Znâ€“Gdâ€“Yâ€“Zr Alloys. International Journal of Metalcasting, 2022, 16, 1902-1914.	1.5	4
52	Effect of alternating magnetic fields on hot tearing susceptibility of Mgâ€“4Znâ€“1.5Ca alloy. Materials Science and Technology, 2023, 39, 50-61.	0.8	4
53	Microstructure and mechanical properties of Mgâ€“4Znâ€“<i>x</i>Y alloys prepared by hot-extrusion. Journal of Materials Research, 2015, 30, 1965-1972.	1.2	3
54	Quasi-in-situ study of the twinning evolution of ZC61 alloy during dynamic ED- ERD compression process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142576.	2.6	3

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55	Numerical Simulation and Experimental Study on Semi-solid Forming Process of 319s Aluminum Alloy Test Bar. International Journal of Metalcasting, 2023, 17, 481-498.	1.5	3
56	Solidification pathways and hot tearing susceptibility of MgZnxY4Zr0.5 alloys. China Foundry, 2018, 15, 124-131.	0.5	2
57	Effect of heat treatments on mechanical properties and corrosion behavior of MgY3Zn2Al magnesium alloy. Materials Research Express, 2018, 5, 106507.	0.8	2
58	Study on the Hot Tearing Susceptibility of Mg-4Zn-xSn-1Ca Alloys. International Journal of Metalcasting, 0, , 1.	1.5	2
59	Effect of aging-treatment on dynamic compression behaviour and microstructure of ZK60 alloy. Materials Science and Technology, 2021, 37, 1117-1128.	0.8	1
60	Magnetic properties of a fullerene-like X₂₀ structure with embedded metal atom. Physica Scripta, 2021, 96, 125858.	1.2	1
61	Microstructure and mechanical properties of extrusion ZC61 alloys under different dynamic compression loading directions. Materials Today Communications, 2022, 30, 103086.	0.9	1