

Feng Wang

List of Publications by Year in descending order

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papers

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docs citations

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Effect of addition of minor amounts of Sb and Gd on hot tearing susceptibility of Mg-5Al-3Ca alloy. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 694-705. | 5.5 | 14 |
| 2 | Numerical Simulation and Experimental Study on Semi-solid Forming Process of 319s Aluminum Alloy Test Bar. <i>International Journal of Metalcasting</i> , 2023, 17, 481-498. | 1.5 | 3 |
| 3 | Effects of Alternating Magnetic Field on the Hot Tearing Susceptibility and Microstructure of Al-5Cu Alloy. <i>International Journal of Metalcasting</i> , 2023, 17, 373-385. | 1.5 | 8 |
| 4 | Effect of alternating magnetic fields on hot tearing susceptibility of Mg ⁴ Zn ^{1.5} Ca alloy. <i>Materials Science and Technology</i> , 2023, 39, 50-61. | 0.8 | 4 |
| 5 | Microstructure, mechanical properties and first-principle analysis of vacuum die-cast Mg ⁷ Al alloy with Sn addition. <i>Rare Metals</i> , 2022, 41, 1961-1967. | 3.6 | 11 |
| 6 | Gating System Design Based on Numerical Simulation and Production Experiment Verification of Aluminum Alloy Bracket Fabricated by Semi-solid Rheo-Die Casting Process. <i>International Journal of Metalcasting</i> , 2022, 16, 878-893. | 1.5 | 11 |
| 7 | Microstructure and mechanical properties of extrusion ZC61 alloys under different dynamic compression loading directions. <i>Materials Today Communications</i> , 2022, 30, 103086. | 0.9 | 1 |
| 8 | Quasi-in-situ study of the twinning evolution of ZC61 alloy during dynamic ED-ERD compression process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142576. | 2.6 | 3 |
| 9 | Effects of Zn Content on Hot Tearing Susceptibility of Mg ⁴ Zn ¹ Gd ¹ Y ¹ Zr Alloys. <i>International Journal of Metalcasting</i> , 2022, 16, 1902-1914. | 1.5 | 4 |
| 10 | Insight into magnetic properties and magnetocaloric effect of an Ising-type polyhedral chain. <i>Polymer</i> , 2022, 246, 124756. | 1.8 | 26 |
| 11 | Effect of Ca/Al ratio on hot tearing susceptibility of Mg ⁴ Al ¹ Ca alloy. <i>Journal of Alloys and Compounds</i> , 2022, 911, 165113. | 2.8 | 15 |
| 12 | Compensation and critical characteristics of the ferrimagnetic bilayer graphdiyne film with RKKY interaction. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1. | 1.1 | 39 |
| 13 | Hot Tearing Behavior of $Mg_{4}Zn_{1}Sn_{0.6}Zr$ Alloys. <i>International Journal of Metalcasting</i> , 2021, 15, 292-305. | 1.5 | 9 |
| 14 | Effect of Pouring and Mold Temperatures on Hot Tearing Susceptibility of WE43 Magnesium Alloy. <i>International Journal of Metalcasting</i> , 2021, 15, 576-586. | 1.5 | 11 |
| 15 | Effect of Ca Content on Hot Tearing Susceptibility of Mg-4Zn-xCa-0.3Zr (x=0.5, 1, 1.5, 2) Alloys. <i>International Journal of Metalcasting</i> , 2021, 15, 1298-1308. | 1.5 | 7 |
| 16 | Investigation of the microstructure and properties of extrusion-shear deformed ZC61 magnesium alloy under high strain rate deformation. <i>Materials Characterization</i> , 2021, 172, 110839. | 1.9 | 14 |
| 17 | Fabrication of fine-grained, high strength and toughness Mg alloy by extrusion [~] shearing process. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 666-678. | 1.7 | 19 |
| 18 | Monte Carlo study of magnetic behaviors in a ferrimagnetic Ising ladder-like boronene nanoribbon. <i>Superlattices and Microstructures</i> , 2021, 151, 106833. | 1.4 | 32 |

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|----|--|-----|-----------|
| 19 | Influence of a low-frequency alternating magnetic field on hot tearing susceptibility of EV31 magnesium alloy. <i>China Foundry</i> , 2021, 18, 229-238. | 0.5 | 6 |
| 20 | Compressive deformation behavior of ultrafine-grained Mg-3Zn-1.2Ca-0.6Zr alloy at room temperature. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159581. | 2.8 | 9 |
| 21 | First-principles study of the lattice vibration, elastic anisotropy and thermodynamical properties of Tantalum Silicide with the different crystal structures. <i>Vacuum</i> , 2021, 191, 110410. | 1.6 | 19 |
| 22 | Quasi-in-situ investigation on extension twinning behavior of extruded ZC61 alloy during dynamic compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141992. | 2.6 | 7 |
| 23 | Effect of aging-treatment on dynamic compression behaviour and microstructure of ZK60 alloy. <i>Materials Science and Technology</i> , 2021, 37, 1117-1128. | 0.8 | 1 |
| 24 | Magnetic properties of a fullerene-like X_{20} structure with embedded metal atom. <i>Physica Scripta</i> , 2021, 96, 125858. | 1.2 | 1 |
| 25 | Monte Carlo study of magnetization plateaus and thermodynamic properties of a nano-graphene with a sandwich-like structure in a longitudinal magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 116, 113721. | 1.3 | 34 |
| 26 | Effect of Yttrium on Hot Tearing Susceptibility of Mg ₆ Zn ₁ Cu _{0.6} Zr Alloys. <i>International Journal of Metalcasting</i> , 2020, 14, 179-190. | 1.5 | 16 |
| 27 | Monte Carlo study of an Ising nanoisland with bilayer graphene-like structure in a longitudinal magnetic field. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109174. | 1.9 | 26 |
| 28 | Microstructure, mechanical properties, and texture evolution of Mg ₆ Zn ₁ Y ₁ Zr alloy fabricated by hot extrusion-shearing process. <i>Journal of Materials Science</i> , 2020, 55, 375-388. | 1.7 | 15 |
| 29 | Nucleation and growth analysis of $\langle \text{Mg}_{10}\text{Mn} \rangle$ extension twins in AZ31 magnesium alloy during in-situ tension. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152967. | 2.8 | 23 |
| 30 | Study on magnetic behaviors in a diluted ferrimagnetic Ising graphene nanoribbon. <i>Superlattices and Microstructures</i> , 2020, 147, 106701. | 1.4 | 30 |
| 31 | Effect of long-period stacking ordered phase on hot tearing susceptibility of Mg ₆ Zn ₁ X _Y alloys. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 1176-1185. | 5.5 | 21 |
| 32 | Microstructure and mechanical properties of Mg-Zn-Ca-Zr alloy fabricated by hot extrusion-shearing process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 795, 139937. | 2.6 | 26 |
| 33 | Dynamic magnetic behaviors of a double-layer core/shell graphene nanoribbon in a time-dependent magnetic field. <i>Results in Physics</i> , 2020, 19, 103573. | 2.0 | 17 |
| 34 | Influence of Nd on Hot Tearing Susceptibility and Mechanism of Mg-Zn-Y-Zr Alloys. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 6714-6726. | 1.2 | 9 |
| 35 | Effect of yttrium addition on dynamic mechanical properties, microstructure, and fracture behavior of extrusion-shear ZC61 _x Y (x=0, 1, 2, 3) alloys. <i>Materials Characterization</i> , 2020, 169, 110615. | 1.9 | 9 |
| 36 | Dynamic compressive behaviour and microstructural evolution of extrusion-shear deformed ZC61 alloy. <i>Materials Science and Technology</i> , 2020, 36, 1148-1161. | 0.8 | 7 |

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|----|---|-----|-----------|
| 37 | Effect of low frequency alternating magnetic field on hot tearing susceptibility of Mg-7Zn-1Cu-0.6Zr magnesium alloy. <i>Journal of Materials Processing Technology</i> , 2020, 282, 116679. | 3.1 | 15 |
| 38 | Effect of Cu on microstructure, mechanical properties, and texture evolution of ZK60 alloy fabricated by hot extrusion~shearing process. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 1511-1523. | 1.7 | 13 |
| 39 | Hot Tearing Susceptibility of AXJ530 Alloy Under Low-Frequency Alternating Magnetic Field. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1259-1270. | 1.5 | 16 |
| 40 | Magnetic behaviors in a ternary metallic nanoisland with bilayer hexagonal core-shell structure. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 135, 109110. | 1.9 | 29 |
| 41 | Effect of Y content on hot tearing susceptibility and mechanical properties of AXJ530-xY alloys. <i>Materials Research Express</i> , 2019, 6, 106508. | 0.8 | 6 |
| 42 | Magnetic properties in graphene-like nanoisland bilayer: Monte Carlo study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 112, 86-95. | 1.3 | 41 |
| 43 | An investigation on hot tearing of AZ91 alloys with yttrium additions. <i>Materials Research Express</i> , 2019, 6, 016554. | 0.8 | 4 |
| 44 | Influence of pre-twinning on high strain rate compressive behavior of AZ31 Mg-alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 309-317. | 2.6 | 35 |
| 45 | Magnetic and thermodynamic properties of a ternary metal nanoisland: A Monte Carlo study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 514, 319-335. | 1.2 | 49 |
| 46 | Microstructure, Tensile Properties, and Corrosion Behavior of Die-Cast Mg-7Al-1Ca-xSn Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 612-623. | 1.2 | 14 |
| 47 | Effect of Sn addition on hot tearing susceptibility of AXJ530 alloy. <i>Materials Research Express</i> , 2018, 5, 036513. | 0.8 | 5 |
| 48 | Solidification pathways and hot tearing susceptibility of MgZn _x Y4Zr0.5 alloys. <i>China Foundry</i> , 2018, 15, 124-131. | 0.5 | 2 |
| 49 | Enhanced strengthening by two-step progressive solution and aging treatment in AM50~4%(Zn,Y) magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 2419-2426. | 1.7 | 7 |
| 50 | Effect of heat treatments on mechanical properties and corrosion behavior of MgY3Zn2Al magnesium alloy. <i>Materials Research Express</i> , 2018, 5, 106507. | 0.8 | 2 |
| 51 | Effects of Copper Content and Mold Temperature on the Hot Tearing Susceptibility of Mg-7Zn-xCu-0.6Zr Alloys. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3444-3455. | 1.0 | 15 |
| 52 | Monte Carlo study of magnetic and thermodynamic properties of a ferrimagnetic mixed-spin (1, 3/2) Ising nanowire with hexagonal core-shell structure. <i>Journal of Alloys and Compounds</i> , 2017, 701, 935-949. | 2.8 | 105 |
| 53 | Effect of Cu Additions on Microstructure, Mechanical Properties and Hot-Tearing Susceptibility of Mg-6Zn-0.6Zr Alloys. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 5530-5539. | 1.2 | 16 |
| 54 | First principles investigation of binary intermetallics in Mg~Al~Ca~Sn alloy: Stability, electronic structures, elastic properties and thermodynamic properties. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 203-212. | 1.7 | 30 |

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|----|--|-----|-----------|
| 55 | Microstructure and mechanical properties of Mg ₄ Zn _x Y alloys prepared by hot-extrusion. Journal of Materials Research, 2015, 30, 1965-1972. | 1.2 | 3 |
| 56 | Effects of Y on hot tearing susceptibility of Mg-Zn-Y-Zr alloys. Transactions of Nonferrous Metals Society of China, 2014, 24, 907-914. | 1.7 | 38 |
| 57 | Mechanical, electronic and thermodynamic properties of Mg ₂ Ca Laves phase under high pressure: A first-principles calculation. Computational Materials Science, 2014, 88, 61-70. | 1.4 | 38 |
| 58 | 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 |
| 59 | First-principles calculations of structural, elastic and electronic properties of AB ₂ type intermetallics in Mg-Zn-Ca-Cu alloy. Journal of Magnesium and Alloys, 2013, 1, 256-262. | 5.5 | 64 |
| 60 | 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 |
| 61 | Study on the Hot Tearing Susceptibility of Mg-4Zn-xSn-1Ca Alloys. International Journal of Metalcasting, 0, , 1. | 1.5 | 2 |