

Liu Ke

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Synthesis of CNT-reinforced AZ31 magnesium alloy composites with uniformly distributed CNTs. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 350-357. | 5.6 | 106 |
| 2 | Microstructure, texture and mechanical properties of as-extruded Mg ⁴ Zn ⁴ Er alloys containing W-phase. <i>Journal of Alloys and Compounds</i> , 2014, 602, 32-39. | 5.5 | 61 |
| 3 | Effects of trace Ca/Sn addition on corrosion behaviors of biodegradable Mg ⁴ Zn ⁴ 0.2Mn alloy. <i>Journal of Magnesium and Alloys</i> , 2018, 6, 1-14. | 11.9 | 48 |
| 4 | Effect of microstructure evolution on mechanical property of extruded Mg ¹² Gd ² Er ¹ Zn ^{0.6} Zr alloys. <i>Journal of Magnesium and Alloys</i> , 2015, 3, 23-28. | 11.9 | 26 |
| 5 | Mechanical properties and corrosion behaviors of Mg ⁴ Zn ^{0.2} Mn ^{0.2} Ca alloy after long term in vitro degradation. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 363-372. | 4.2 | 26 |
| 6 | Effect of isothermal homogenization on microstructure and mechanical properties of the Mg ⁵ Y ⁴ Gd ^{0.5} Zn ^{0.4} Zr alloy. <i>Materials & Design</i> , 2013, 52, 1035-1042. | 5.1 | 19 |
| 7 | Microstructure, texture and mechanical properties of Mg ⁴ Zn ⁴ Er alloys containing I-phase and W-phase simultaneously. <i>Journal of Alloys and Compounds</i> , 2016, 665, 76-85. | 5.5 | 19 |
| 8 | Obtaining Ultra-High Strength and Ductility in a Mg ⁴ Gd ⁴ Er ⁴ Zn ⁴ Zr Alloy via Extrusion, Pre-deformation and Two-Stage Aging. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 39-44. | 2.9 | 19 |
| 9 | Microstructures and mechanical properties of homogenization and isothermal aging Mg ⁴ Gd ⁴ Er ⁴ Zn ⁴ Zr alloy. <i>Rare Metals</i> , 2016, 35, 443-449. | 7.1 | 13 |
| 10 | Microstructure, mechanical properties and stretch formability of as-rolled Mg alloys with Zn and Er additions. <i>Rare Metals</i> , 2021, 40, 2179-2187. | 7.1 | 13 |
| 11 | Microstructure and mechanical properties of AZ31 magnesium alloy reinforced by I-phase. <i>Rare Metals</i> , 2019, 38, 733-738. | 7.1 | 12 |
| 12 | Microstructures and mechanical properties of as-extruded Mg ⁸ Gd ² Y ¹ Zn ⁶ Li alloy. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158826. | 5.5 | 12 |
| 13 | Effect of pre-solution treatment on mechanical properties of as-extruded Mg ^{96.9} Zn ^{0.43} Gd ^{2.48} Zr ^{0.15} alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 33-39. | 5.6 | 11 |
| 14 | Effects of carbon nanotubes on twin and texture evolution of magnesium matrix composite during compression process. <i>Materials Characterization</i> , 2018, 141, 398-405. | 4.4 | 11 |
| 15 | The effect of heat treatment on microstructure of the melt-spun Mg ⁷ Y ⁴ Gd ⁵ Zn ^{0.4} Zr alloy. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 99-103. | 11.9 | 10 |
| 16 | Microstructure evolution of Mg ⁹ Gd ² Er ^{0.4} Zr alloy during solid solution treatment. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 593-598. | 4.2 | 9 |
| 17 | Precipitate Characteristics and Mechanical Performance of Cast Mg ⁶ RE ¹ Zn ^x Ca ^{0.3} Zr (x=0 and 0.4) Tj ETQq1 | 2.9 | 9 |
| 18 | Effect of the Ca ₂ Mg ₆ Zn ₃ Phase on the Corrosion Behavior of Biodegradable Mg-4.0Zn-0.2Mn-xCa Alloys in Hank's Solution. <i>Materials</i> , 2022, 15, 2079. | 2.9 | 9 |

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|----|---|-----|-----------|
| 19 | Effect of Zn addition on microstructure and mechanical properties of as-cast Mg-2Er alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 3792-3796. | 4.2 | 8 |
| 20 | Failure mechanism of as-cast Mg-6Zn-2Er alloy during tensile test at room temperature. Transactions of Nonferrous Metals Society of China, 2013, 23, 3193-3199. | 4.2 | 6 |
| 21 | Precipitation behavior of 14H-LPSO structure in Mg-12Gd-2Er-1Zn-0.6Zr Alloy. Rare Metals, 2016, 35, 367-373. | 7.1 | 5 |
| 22 | Microstructure and electrochemical properties of La _{0.8-x} Mg _{0.2} Ni _{3.1} Co _{0.3} Al _{0.1} (x=0, 0.1, 0.2, 0.3) alloys. Rare Metals, 2017, 36, 645-650. | 7.1 | 3 |