

# Liu Ke

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Precipitate Characteristics and Mechanical Performance of Cast Mg <sub>96</sub> Er <sub>2</sub> Zn <sub>1</sub> xCa <sub>0.3</sub> Zr (x=0 and 0.4) T <sub>1</sub> ETQq1	2.9	9
2	Effect of the Ca <sub>2</sub> Mg <sub>6</sub> Zn <sub>3</sub> 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
3	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
4	Obtaining Ultra-High Strength and Ductility in a Mg-Gd-Er-Zn-Zr Alloy via Extrusion, Pre-deformation and Two-Stage Aging. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 39-44.	2.9	19
5	Microstructures and mechanical properties of as-extruded Mg <sub>8</sub> Gd <sub>2</sub> Y <sub>1</sub> Zn <sub>6</sub> Li alloy. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158826.	5.5	12
6	Mechanical properties and corrosion behaviors of Mg <sub>94</sub> Zn <sub>0.2</sub> Mn <sub>0.2</sub> Ca alloy after long term in vitro degradation. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 363-372.	4.2	26
7	Microstructure and mechanical properties of AZ31 magnesium alloy reinforced by I-phase. <i>Rare Metals</i> , 2019, 38, 733-738.	7.1	12
8	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
9	Effects of trace Ca/Sn addition on corrosion behaviors of biodegradable Mg <sub>4</sub> Zn <sub>0.2</sub> Mn alloy. <i>Journal of Magnesium and Alloys</i> , 2018, 6, 1-14.	11.9	48
10	Microstructure and electrochemical properties of La <sub>0.8</sub> x MM x Mg <sub>0.2</sub> Ni <sub>3.1</sub> Co <sub>0.3</sub> Al <sub>0.1</sub> (x=0, 0.1, 0.2, 0.3) alloys. <i>Rare Metals</i> , 2017, 36, 645-650.	7.1	3
11	Microstructures and mechanical properties of homogenization and isothermal aging Mg-Gd-Er-Zn-Zr alloy. <i>Rare Metals</i> , 2016, 35, 443-449.	7.1	13
12	The effect of heat treatment on microstructure of the melt-spun Mg <sub>7</sub> Y <sub>4</sub> Gd <sub>5</sub> Zn <sub>0.4</sub> Zr alloy. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 99-103.	11.9	10
13	Effect of pre-solution treatment on mechanical properties of as-extruded Mg <sub>96.9</sub> Zn <sub>0.43</sub> Gd <sub>2.48</sub> Zr <sub>0.15</sub> alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 33-39.	5.6	11
14	Precipitation behavior of 14H-LPSO structure in Mg <sub>12</sub> Gd <sub>2</sub> Er <sub>1</sub> Zn <sub>0.6</sub> Zr Alloy. <i>Rare Metals</i> , 2016, 35, 367-373.	7.1	5
15	Microstructure, texture and mechanical properties of Mg-Zn-Er alloys containing I-phase and W-phase simultaneously. <i>Journal of Alloys and Compounds</i> , 2016, 665, 76-85.	5.5	19
16	Effect of microstructure evolution on mechanical property of extruded Mg <sub>12</sub> Gd <sub>2</sub> Er <sub>1</sub> Zn <sub>0.6</sub> Zr alloys. <i>Journal of Magnesium and Alloys</i> , 2015, 3, 23-28.	11.9	26
17	Synthesis of CNT-reinforced AZ31 magnesium alloy composites with uniformly distributed CNTs. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 350-357.	5.6	106
18	Effect of Zn addition on microstructure and mechanical properties of as-cast Mg <sub>2</sub> Er alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 3792-3796.	4.2	8

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19	Microstructure, texture and mechanical properties of as-extruded Mg-9Zn-2Er alloys containing W-phase. <i>Journal of Alloys and Compounds</i> , 2014, 602, 32-39.	5.5	61
20	Microstructure evolution of Mg-9Gd-2Er-0.4Zr alloy during solid solution treatment. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 593-598.	4.2	9
21	Failure mechanism of as-cast Mg-6Zn-2Er alloy during tensile test at room temperature. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 3193-3199.	4.2	6
22	Effect of isothermal homogenization on microstructure and mechanical properties of the Mg-5Y-4Gd-0.5Zn-0.4Zr alloy. <i>Materials &amp; Design</i> , 2013, 52, 1035-1042.	5.1	19