

# Renlong Xin

## List of Publications by Year in descending order

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25  
papers

1,036  
citations

471509

17  
h-index

580821

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all docs

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docs citations

25  
times ranked

600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving tensile and compressive properties of magnesium alloy plates by pre-cold rolling. <i>Scripta Materialia</i> , 2012, 66, 1061-1064.	5.2	209
2	Effect of crystal orientation on the mechanical properties and strain hardening behavior of magnesium alloy AZ31 during uniaxial compression. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 534, 588-593.	5.6	167
3	Geometrical compatibility factor analysis of paired extension twins in extruded Mg-3Al-1Zn alloys. <i>Materials and Design</i> , 2015, 86, 656-663.	7.0	60
4	Enhancing the strength of rolled ZK60 alloys via the combined use of twinning deformation and aging treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 582, 68-75.	5.6	54
5	Enhancing stretch formability of rolled Mg sheets by pre-inducing contraction twins and recrystallization annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 627, 369-373.	5.6	50
6	Structural examination of aging precipitation in a Mg-Y-Nd alloy at different temperatures. <i>Materials Characterization</i> , 2011, 62, 535-539.	4.4	47
7	Effect of aging precipitation on mechanical anisotropy of an extruded Mg-Y-Nd alloy. <i>Materials &amp; Design</i> , 2012, 34, 384-388.	5.1	47
8	Evolution of gradient microstructure in an extruded AZ31 rod during torsion and annealing and its effects on mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 689, 78-88.	5.6	47
9	Enhancing the age-hardening response of rolled AZ80 alloy by pre-twinning deformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 680, 152-156.	5.6	47
10	The mechanism of twinning activation and variant selection in magnesium alloys dominated by slip deformation. <i>Journal of Alloys and Compounds</i> , 2016, 687, 352-359.	5.5	46
11	Regulating precipitate orientation in Mg-Al alloys by coupling twinning, aging and detwinning processes. <i>Scripta Materialia</i> , 2019, 158, 131-135.	5.2	44
12	Twinning characteristic and variant selection in compression of a pre-side-rolled Mg alloy sheet. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 614, 106-115.	5.6	35
13	Effects of precipitate type on twin/slip activity in ZK60 alloys and yield asymmetry. <i>Journal of Alloys and Compounds</i> , 2019, 792, 610-616.	5.5	35
14	Dependence of tensile and compressive deformation behavior on aging precipitation in rolled ZK60 alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 724-731.	5.6	31
15	Evaluating the orientation relationship of prismatic precipitates generated by detwinning in Mg alloys. <i>Acta Materialia</i> , 2020, 195, 263-273.	7.9	26
16	Effect of cold rolling on microstructure and mechanical property of extruded Mg-4Sm alloy during aging. <i>Materials Characterization</i> , 2016, 112, 81-86.	4.4	18
17	Regulating Precipitates by Simple Cold Deformations to Strengthen Mg Alloys: A Review. <i>Materials</i> , 2019, 12, 2507.	2.9	18
18	Evaluation of the reliability of twin variant analysis in Mg alloys by in situ EBSD technique. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 258-263.	11.9	17

#	ARTICLE	IF	CITATIONS
19	Tailoring the Microstructure and Mechanical Property of AZ80 Alloys by Multiple Twinning and Aging Precipitation. <i>Advanced Engineering Materials</i> , 2017, 19, 1700332.	3.5	10
20	Evaluation of Twinning Behavior in Rolling of Mg Alloys with Three Kinds of Textures by a Generalized Schmid Factor. <i>Metals and Materials International</i> , 2020, 26, 1366-1372.	3.4	9
21	Influence of Aging Prior to Extrusion on the Microstructure and Mechanical Properties of an Extruded AZ91 Alloy. <i>Advanced Engineering Materials</i> , 2020, 22, 2000201.	3.5	7
22	Effect of special primary $\beta$ grain on variant selection of secondary $\beta$ phase in a near- $\beta$ titanium alloy. <i>Materials Letters</i> , 2020, 271, 127766.	2.6	5
23	Revealing the Texture Evolution and Compressive Anisotropy in Free-End Twisted AZ31 Rods. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1157-1166.	2.5	3
24	Evaluation of Textural Effect on the Rollability of AZ31 Alloys by Wedge-Shaped Sample Design. <i>Advanced Engineering Materials</i> , 2017, 19, 1700035.	3.5	2
25	Effect of Precipitates in Mg-Sm Alloys on Their Deformation Behavior and Yield Asymmetry. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	2