

# Zhiyong Chen

## List of Publications by Citations

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41  
papers

547  
citations

15  
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22  
g-index

43  
ext. papers

780  
ext. citations

4.6  
avg, IF

4.09  
L-index

#	Paper	IF	Citations
41	Microstructures and tensile properties of Mg <sub>0.6</sub> Zn <sub>0.1</sub> Zr alloy during multidirectional forging at 773K. <i>Materials &amp; Design</i> , <b>2013</b> , 50, 587-596		82
40	Evolution of LPSO phases in a Mg-Zn-Y-Gd-Zr alloy during semi-continuous casting, homogenization and hot extrusion. <i>Materials and Design</i> , <b>2018</b> , 152, 1-9	8.1	33
39	Improved workability and ductility of the Mg-Gd-Y-Zn-Zr alloy via enhanced kinking and dynamic recrystallization. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 749, 878-886	5.7	32
38	Microstructural evolution in adiabatic shear bands of copper at high strain rates: Electron backscatter diffraction characterization. <i>Materials Characterization</i> , <b>2012</b> , 64, 21-26	3.9	32
37	Texture evolution, deformation mechanism and mechanical properties of the hot rolled Mg-Gd-Y-Zn-Zr alloy containing LPSO phase. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 731, 479-486	5.3	30
36	The effect of LPSO on the deformation mechanism of Mg <sub>0.6</sub> Zn <sub>0.1</sub> Zr magnesium alloy. <i>Journal of Magnesium and Alloys</i> , <b>2016</b> , 4, 83-88	8.8	26
35	Hot deformation and dynamic recrystallization behaviors of Mg-Gd-Zn alloy with LPSO phases. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 792, 894-906	5.7	25
34	Effects of texture on anisotropy of mechanical properties in annealed Mg <sub>0.6</sub> Zn <sub>0.1</sub> Cd sheets by unidirectional and cross rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 615, 324-330	5.3	25
33	Microstructure and mechanical properties of annealed Mg <sub>0.6</sub> Zn <sub>0.1</sub> Zr sheets by unidirectional and cross rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 590, 60-65	5.3	24
32	The role of long-period stacking ordered phases in the deformation behavior of a strong textured Mg-Zn-Gd-Y-Zr alloy sheet processed by hot extrusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 750, 31-39	5.3	22
31	The role of long period stacking ordered phase in dynamic recrystallization of a Mg <sub>0.6</sub> Zn <sub>0.1</sub> alloy during hot compression. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 152814	5.7	21
30	Adiabatic shear localization in pure titanium deformed by dynamic loading: Microstructure and microtexture characteristic. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 640, 436-442	5.3	20
29	Adiabatic shear behaviors in rolled and annealed pure titanium subjected to dynamic impact loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 685, 95-106	5.3	19
28	Microstructure and mechanical properties of Mg-6.75%Zn-0.57%Zr-0.4%Y-0.18%Gd sheets by unidirectional and cross rolling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 662, 519-527	5.3	16
27	Annealing-induced microstructural evolution and mechanical anisotropy improvement of the Mg-Gd-Y-Zr alloy processed by hot ring rolling. <i>Materials Characterization</i> , <b>2018</b> , 144, 641-651	3.9	15
26	Microstructure and mechanical anisotropy of the hot rolled Mg-8.1Al-0.7Zn-0.15Ag alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 701, 7-15	5.3	14
25	Quasi-static and dynamic forced shear deformation behaviors of Ti-5Mo-5V-8Cr-3Al alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 691, 51-59	5.3	13

24	Mechanical Properties of the Mg-Gd-Y-Zn-Zr Alloys with Different Morphologies of Long-Period Stacking Ordered Phases. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 6237-6245	1.6	12
23	Adiabatic shear deformation behaviors of cold-rolled copper under different impact loading directions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 754, 330-338	5.3	10
22	Microstructure and Microtexture Evolution of Shear Localization in Dynamic Deformation with Different Strains in Annealed Copper. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 793-805	2.3	7
21	Analysis of crystallographic twinning and slip in fcc crystals under plane strain compression. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 464, 101-109	5.3	7
20	Grain Refinement Mechanisms in Gradient Nanostructured AZ31B Mg Alloy Prepared via Rotary Swaging. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 4053-4065	2.3	7
19	Deformation Mechanism of Mg-Gd-Y-Zn-Zr Alloy Containing Long-Period Stacking Ordered Phases During Hot Rolling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 1911-1923	2.3	6
18	Manufacturing high-performance Mg alloy through hot extrusion. <i>Materials and Manufacturing Processes</i> , <b>2018</b> , 33, 863-866	4.1	6
17	Fragmentation of long period stacking ordered (LPSO) phase and its impact on microstructure evolution of a Mg <sub>92</sub> Zn alloy during multi-directional forging. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 793, 139898	5.3	6
16	Interactions between kinking and {101̄2} twinning in a Mg <sub>92</sub> Zn-Gd alloy containing long period stacking ordered (LPSO) phase. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 767, 138418	5.3	5
15	Co-yield surfaces for {111}<110> slip and {111}<112> twinning in fcc metals. <i>Journal of Materials Science</i> , <b>2002</b> , 37, 2843-2848	4.3	5
14	Evolution of long-period stacking ordered phases and their effect on recrystallization in extruded Mg-Gd-Y-Zn-Zr alloy during annealing. <i>Materials Characterization</i> , <b>2020</b> , 167, 110515	3.9	5
13	Improving the Ductility of Mg <sub>92</sub> Zn Alloy through Extrusion and a Following Rolling. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1701041	3.5	4
12	Computer Simulation of Rolling Textures Evolution of Pure Aluminum with Initial Texture. <i>Materials Transactions</i> , <b>2004</b> , 45, 2845-2850	1.3	4
11	Influence of Heat Treatment on Microstructures and Impact Toughness of Mg-Al-Zn Alloy. <i>Jom</i> , <b>2019</b> , 71, 2874-2883	2.1	3
10	Strengthening the Mg <sub>92</sub> Zn alloy through the formation of nanoscale lamellar structures and nanograins. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 886, 161148	5.7	3
9	Analysis for twinning and slip in face-centered cubic crystals under axisymmetric co-deformation. <i>Science in China Series D: Earth Sciences</i> , <b>2006</b> , 49, 521-536		2
8	The Interaction Between ( { 10̄1̄2 } ) Twinning and Long-Period Stacking Ordered (LPSO) Phase During Hot Rolling and Annealing Process of a Mg-Gd-Y-Zn-Zr Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 520-530	2.3	2
7	Effects of T5 Treatment on Microstructure and Mechanical Properties at Elevated Temperature of AZ80-Ag Alloy. <i>Materials</i> , <b>2019</b> , 12,	3.5	1

6	Influence of Corrosion Morphology on Inductive Impedance of Mg-Gd-Y-Zn-Zr-Ag Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 4126-4137	1.6	1
5	Deformation mechanism, orientation evolution and mechanical properties of annealed cross-rolled Mg-Zn-Zr-Y-Gd sheet during tension. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	1
4	Formation of nanocrystalline AZ31B Mg alloys via cryogenic rotary swaging. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	1
3	Fabrication of Nanocrystalline High-Strength Magnesium-Lithium Alloy by Rotary Swaging. <i>Advanced Engineering Materials</i> , 2100666	3.5	0
2	Forced shear deformation behaviors of annealed pure titanium under quasi-static and dynamic loading. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 839, 142872	5.3	0
1	Loading Mode Dependence of $\{10\bar{1}2\}$ Twin Variant Selection in a Rolled Mg-Al-Zn Alloy. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	