

Zhiyong Chen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1510508/zhiyong-chen-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41
papers

547
citations

15
h-index

22
g-index

43
ext. papers

780
ext. citations

4.6
avg, IF

4.09
L-index

#	Paper	IF	Citations
41	Forced shear deformation behaviors of annealed pure titanium under quasi-static and dynamic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 839, 142872	5.3	0
40	Influence of Corrosion Morphology on Inductive Impedance of Mg-Gd-Y-Zn-Zr-Ag Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 4126-4137	1.6	1
39	The Interaction Between $\{10\bar{1}2\}$ 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> , 2021 , 52, 520-530	2.3	2
38	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> , 2021 , 52, 4053-4065	2.3	7
37	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> , 2021 ,	8.8	1
36	Strengthening the Mg ₉₂ Zn alloy through the formation of nanoscale lamellar structures and nanograins. <i>Journal of Alloys and Compounds</i> , 2021 , 886, 161148	5.7	3
35	Formation of nanocrystalline AZ31B Mg alloys via cryogenic rotary swaging. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	1
34	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> , 2020 , 51, 1911-1923	2.3	6
33	The role of long period stacking ordered phase in dynamic recrystallization of a Mg ₉₂ Zn alloy during hot compression. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152814	5.7	21
32	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> , 2020 , 167, 110515	3.9	5
31	Fragmentation of long period stacking ordered (LPSO) phase and its impact on microstructure evolution of a Mg ₉₂ Zn alloy during multi-directional forging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139898	5.3	6
30	Interactions between kinking and $\{10\bar{1}2\}$ twinning in a Mg ₉₂ Zn-Gd alloy containing long period stacking ordered (LPSO) phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 767, 138418	5.3	5
29	Effects of T5 Treatment on Microstructure and Mechanical Properties at Elevated Temperature of AZ80-Ag Alloy. <i>Materials</i> , 2019 , 12,	3.5	1
28	Hot deformation and dynamic recrystallization behaviors of Mg-Gd-Zn alloy with LPSO phases. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 894-906	5.7	25
27	Adiabatic shear deformation behaviors of cold-rolled copper under different impact loading directions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 330-338	5.3	10
26	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 750, 31-39	5.3	22
25	Influence of Heat Treatment on Microstructures and Impact Toughness of Mg-Al-Zn Alloy. <i>Jom</i> , 2019 , 71, 2874-2883	2.1	3

24	Improving the Ductility of Mg-Gd-Y-Zr Alloy through Extrusion and a Following Rolling. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701041	3.5	4
23	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> , 2018 , 749, 878-886	5.7	32
22	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> , 2018 , 152, 1-9	8.1	33
21	Manufacturing high-performance Mg alloy through hot extrusion. <i>Materials and Manufacturing Processes</i> , 2018 , 33, 863-866	4.1	6
20	Annealing-induced microstructural evolution and mechanical anisotropy improvement of the Mg-Gd-Y-Zr alloy processed by hot ring rolling. <i>Materials Characterization</i> , 2018 , 144, 641-651	3.9	15
19	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> , 2018 , 27, 6237-6245	1.6	12
18	Texture evolution, deformation mechanism and mechanical properties of the hot rolled Mg-Gd-Y-Zn-Zr alloy containing LPSO phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 731, 479-486	5.3	30
17	Adiabatic shear behaviors in rolled and annealed pure titanium subjected to dynamic impact loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 95-106	5.3	19
16	Microstructure and mechanical anisotropy of the hot rolled Mg-8.1Al-0.7Zn-0.15Ag alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 701, 7-15	5.3	14
15	Quasi-static and dynamic forced shear deformation behaviors of Ti-5Mo-5V-8Cr-3Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 691, 51-59	5.3	13
14	The effect of LPSO on the deformation mechanism of Mg-Gd-Y-Zn-Zr magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 83-88	8.8	26
13	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 & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 662, 519-527	5.3	16
12	Adiabatic shear localization in pure titanium deformed by dynamic loading: Microstructure and microtexture characteristic. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 436-442	5.3	20
11	Effects of texture on anisotropy of mechanical properties in annealed Mg-0.6%Zr-0.0%Gd sheets by unidirectional and cross rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 324-330	5.3	25
10	Microstructure and mechanical properties of annealed Mg-0.6wt%Zr sheets by unidirectional and cross rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 590, 60-65	5.3	24
9	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> , 2013 , 44, 793-805	2.3	7
8	Microstructures and tensile properties of Mg-Gd-Y-Zr alloy during multidirectional forging at 773K. <i>Materials & Design</i> , 2013 , 50, 587-596		82
7	Microstructural evolution in adiabatic shear bands of copper at high strain rates: Electron backscatter diffraction characterization. <i>Materials Characterization</i> , 2012 , 64, 21-26	3.9	32

6	Analysis of crystallographic twinning and slip in fcc crystals under plane strain compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 464, 101-109	5-3	7
5	Analysis for twinning and slip in face-centered cubic crystals under axisymmetric co-deformation. <i>Science in China Series D: Earth Sciences</i> , 2006 , 49, 521-536		2
4	Computer Simulation of Rolling Textures Evolution of Pure Aluminum with Initial Texture. <i>Materials Transactions</i> , 2004 , 45, 2845-2850	1-3	4
3	Co-yield surfaces for {111}<110> slip and {111}<112> twinning in fcc metals. <i>Journal of Materials Science</i> , 2002 , 37, 2843-2848	4-3	5
2	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	
1	Fabrication of Nanocrystalline High-Strength Magnesium-Lithium Alloy by Rotary Swaging. <i>Advanced Engineering Materials</i> , 2100666	3-5	0