

Zhiyi Liu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1805277/zhiyi-liu-publications-by-year.pdf>

Version: 2024-04-24

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.

99
papers

1,515
citations

23
h-index

33
g-index

102
ext. papers

1,915
ext. citations

4.1
avg, IF

4.93
L-index

#	Paper	IF	Citations
99	Effect of cold rolling on microstructure and hardness of annealed AlCuMg alloy. <i>Archives of Civil and Mechanical Engineering</i> , 2022 , 22, 1	3.4	1
98	Making Al-Cu-Mg alloy tough by Goss-oriented grain refinement. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 164095	5.7	0
97	Effect of rolling temperature on mechanical properties and corrosion resistance of Al-Cu-Mg-Ag alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163168	5.7	0
96	Effects of Dislocation Slip Behaviour and Second-Phase Particles on Hot Rolled Texture of an Al-Cu-Mg Alloy with a High Cu/Mg Ratio. <i>Journal of Alloys and Compounds</i> , 2022 , 165085	5.7	1
95	Fatigue crack propagation across grain boundary of Al-Cu-Mg bicrystal based on crystal plasticity XFEM and cohesive zone model. <i>Journal of Materials Science and Technology</i> , 2022 , 126, 275-287	9.1	0
94	Preparation and Characterization of a Silane Sealed PEO Coating on Aluminum Alloy. <i>Coatings</i> , 2021 , 11, 549	2.9	1
93	Effect of Minor Er Additions on the Microstructures and Mechanical Properties of Cast Al-Cu-Mg-Ag Alloys. <i>Materials</i> , 2021 , 14,	3.5	2
92	Tribological Behavior of Al ₂ O ₃ -MoO ₂ -SiO ₂ Composite Ceramic Coating on Al-Zn-Mg-Cu Alloy. <i>Coatings</i> , 2021 , 11, 915	2.9	2
91	Effect of various aging treatment on thermal stability of a novel Al-Zn-Mg-Cu alloy for oil drilling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140490	5.3	4
90	Microstructure evolution and mechanical properties of the electron-beam welded joints of cast AlCuMgAg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140363	5.3	11
89	Coupling Effect of Grain Structures and Residual Secondary Phases on Fatigue Crack Propagation Behavior in an Al-Cu-Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 2669-2679	1.6	3
88	Effects of yttrium additions on microstructures and mechanical properties of cast Al-Cu-Mg-Ag alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159435	5.7	8
87	Corrosion Resistance of Epoxy Coatings Modified by Bis-Silane Prepolymer on Aluminum Alloy. <i>Coatings</i> , 2021 , 11, 842	2.9	3
86	Grain-orientation induced stress formation in AA2024 monocrystal and bicrystal using Crystal Plasticity Finite Element Method. <i>Materials and Design</i> , 2021 , 206, 109794	8.1	4
85	Fatigue crack propagation within Al-Cu-Mg single crystals based on crystal plasticity and XFEM combined with cohesive zone model. <i>Materials and Design</i> , 2021 , 210, 110015	8.1	2
84	Evolution of Goss texture in an AlCuMg alloy during cold rolling. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	7
83	Effects of natural aging on the formation and strengthening effect of G.P. zones in a retrogression and re-aged AlZnMgCu alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154469	5.7	23

82	Dynamic dissolution and texture evolution of an AlCuMgAg alloy during hot rolling. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 154254	5.7	12
81	Effect of T-phase on microstructure of the hot rolled AlCuMg alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154190	5.7	6
80	Enhanced Brass texture of hot-rolled Al-4Cu-1.6Mg alloy by 0.1% Zr addition. <i>Materials Characterization</i> , 2020 , 169, 110643	3.9	4
79	Effects of pre-strain on the surface residual stress and corrosion behavior of an Al-Zn-Mg-Cu alloy plate. <i>Materials Characterization</i> , 2020 , 160, 110129	3.9	11
78	Combined Effect of Ag and Mg Additions on Localized Corrosion Behavior of Al-Cu Alloys with High Cu Content. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 6108-6117	1.6	5
77	Corrosion Resistance of Bis-Silane-Modified Epoxy Coatings on an Al-Zn-Mg-Cu Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 5282-5290	1.6	4
76	Hot Deformation Behavior Considering Strain Effects and Recrystallization Mechanism of an Al-Zn-Mg-Cu Alloy. <i>Materials</i> , 2020 , 13,	3.5	7
75	The Effect of Multistage Aging on Mechanical Properties and Microstructure of Forged 7050 Aluminum Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 3590-3599	1.6	2
74	Effect of Sc addition on the microstructures and age-hardening behavior of an Al Cu Mg Ag alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 258-267	5.3	11
73	Texture Evolution and Its Effect on Fatigue Crack Propagation in Two 2000 Series Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 1324-1336	1.6	9
72	Texture effect on fatigue crack propagation in aluminium alloys: an overview. <i>Materials Science and Technology</i> , 2019 , 35, 1789-1802	1.5	3
71	Effects of small Er addition on the microstructural evolution and strength properties of an AlCuMgAg alloy aged at 200°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138351	5.3	12
70	On the role of the solute partitioning and chemistry in initial precipitation of β plates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138339	5.3	1
69	Microstructure and Three-Point Bending Fatigue Behavior of Al-Cu-Mg-Ag Alloys with Various Mg Contents. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6614-6625	1.6	3
68	Effect of S phase characteristics on the formation of recrystallization textures of an Al-Cu-Mg alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 293-305	5.7	10
67	Improving the Fatigue Crack Propagation Resistance and Damage Tolerance of 2524-T3 Alloy with Amorphous Electroless Ni-P Coating. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 881-888	1.6	5
66	Analysis of empirical relation between microstructure, texture evolution and fatigue properties of an Al-Cu-Li alloy during different pre-deformation processes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 726, 309-319	5.3	22
65	Effects of Ag Addition on Precipitation and Fatigue Crack Propagation Behavior of a Medium-Strength AlZnMg Alloy. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 534-540	9.1	23

64	Goss texture intensity effect on fatigue crack propagation resistance in an Al-Cu-Mg alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 318-326	5.7	29
63	Effect of Overaging on Fatigue Crack Propagation and Stress Corrosion Cracking Behaviors of an Al-Zn-Mg-Cu Alloy Thick Plate. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 3824-3830	1.6	9
62	Texture Effect on Fatigue Crack Propagation Behavior in Annealed Sheets of an Al-Cu-Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 4693-4702	1.6	4
61	A Review of Texture Evolution Mechanisms During Deformation by Rolling in Aluminum Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 3350-3373	1.6	13
60	The influence of preaging on the strength and precipitation behavior of a deformed Al-Cu-Mg-Ag alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 62-72	5.7	16
59	P-Texture Effect on the Fatigue Crack Propagation Resistance in an Al-Cu-Mg Alloy Bearing a Small Amount of Silver. <i>Materials</i> , 2018 , 11,	3.5	10
58	Coincidence site lattice boundary mechanism for the preferred growth of Goss and Cube grains during annealing in an Al-Cu-Mg alloy. <i>Materials Characterization</i> , 2018 , 141, 193-211	3.9	9
57	Texture Evolution in an Al-Cu-Mg Alloy During Hot Rolling. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 3255-3267	1.6	5
56	Quantitative transmission electron microscopy and atom probe tomography study of Ag-dependent precipitation of β phase in Al-Cu-Mg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 8-16	5.3	28
55	Texture and Tempered Condition Combined Effects on Fatigue Behavior in an Al-Cu-Li Alloy. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2453-2458	1.6	2
54	Effects of Ge and Ag additions on quench sensitivity and mechanical properties of an Al ₇₀ Zn ₁₀ Mg ₁₀ Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 640-647	5.3	33
53	Enhanced damage tolerance through reconstructing residual stress and Cu-Mg co-clusters by pre-rolling in an Al-Cu-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 700, 241-249	5.3	4
52	Analysis on the dissolution behavior of various size Cu-Mg co-clusters near a fatigue crack tip of underaged Al-Cu-Mg alloy during cyclic loading. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 119-125	5.7	8
51	Effect of artificial aging on the Cu-Mg co-clustering and mechanical behavior in a pre-strained Al-Cu-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 707, 412-418	5.3	5
50	Anisotropy in fatigue crack propagation behavior of Al-Cu-Li alloy thick plate. <i>Materials Characterization</i> , 2017 , 131, 440-449	3.9	14
49	Quantitative study of the solute clustering and precipitation in a pre-stretched Al-Cu-Mg-Ag alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 1288-1296	5.7	13
48	Effects of pre-strain on Cu-Mg co-clustering and mechanical behavior in a naturally aged Al-Cu-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 18-24	5.3	8
47	Effect of Ag additions on the lengthening rate of β plates and formation of β phase in Al-Cu-Mg alloys during thermal exposure. <i>Materials Characterization</i> , 2017 , 123, 1-8	3.9	13

46	Enhanced fatigue crack propagation resistance of Al-Cu-Mg alloy by intensifying Goss texture and refining Goss grains. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 679, 204-214	5.3	25
45	Evolution of the Brass texture in an Al-Cu-Mg alloy during hot rolling. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 786-799	5.7	47
44	Enhanced fracture toughness in an annealed Al-Cu-Mg alloy by increasing Goss/Brass texture ratio. <i>Materials Characterization</i> , 2016 , 119, 47-54	3.9	34
43	Enhanced Heat Resistance of Al-Cu-Mg Alloy by a Combination of Pre-stretching and Underaging. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 3793-3801	1.6	4
42	Enhanced fatigue crack propagation resistance in a superhigh strength Al ₇₀ Mg ₁₀ Cu alloy by modifying RRA treatment. <i>Materials Characterization</i> , 2016 , 118, 438-445	3.9	40
41	Multistage-aging process effect on formation of GP zones and mechanical properties in Al ₇₀ Mg ₁₀ Cu alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 1183-1190	3.3	32
40	Dislocation interaction with β phase in crept Al ₇₀ Mg ₁₀ Ag alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 399-405	5.3	9
39	Solute cluster size effect on the fatigue crack propagation resistance of an underaged Al ₇₀ Mg alloy. <i>International Journal of Fatigue</i> , 2016 , 84, 104-112	5	19
38	Slip band formation in plastic deformation zone at crack tip in fatigue stage II of 2xxx aluminum alloys. <i>International Journal of Fatigue</i> , 2016 , 91, 68-78	5	36
37	On the role of texture in governing fatigue crack propagation behavior of 2524 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 669, 367-378	5.3	32
36	Investigation of modulus hardening of various co-clusters in aged Al-Cu-Mg-Ag alloy by atom probe tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 668, 234-242	5.3	8
35	Effects of germanium on quench sensitivity in Al ₇₀ Mg ₁₀ Zr alloy. <i>Materials and Design</i> , 2015 , 86, 679-685	8.1	20
34	Mechanisms for Goss-grains induced crack deflection and enhanced fatigue crack propagation resistance in fatigue stage II of an AA2524 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 271-277	5.3	54
33	Atom probe tomography study of Mg-dependent precipitation of β phase in initial aged Al-CuMgAg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 637, 183-188	5.3	20
32	Improved Stress Corrosion Cracking Resistance and Strength of a Two-Step Aged Al-Zn-Mg-Cu Alloy Using Taguchi Method. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 4870-4877	1.6	9
31	Analysis of modulus hardening in an artificial aged Al ₇₀ Mg alloy by atom probe tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 629, 23-28	5.3	13
30	Stress-induced thickening of β phase in Al ₇₀ Mg alloys containing various Ag additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 589, 89-96	5.3	16
29	Mg-controlled formation of MgAg co-clusters in initial aged Al ₇₀ MgAg alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 602, 193-198	5.7	25

28	Effects of Ag variations on the microstructures and mechanical properties of AlCuMg alloys at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 611, 69-76	5.3	30
27	Transition of crack propagation from a transgranular to an intergranular path in an overaged Al-Zn-Mg-Cu alloy during cyclic loading. <i>Metals and Materials International</i> , 2013 , 19, 197-203	2.4	14
26	Dependence of Competitive Grain Growth on Secondary Dendrite Orientation During Directional Solidification of a Ni-based Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5113-5121	2.3	16
25	The influence of various Ag additions on the nucleation and thermal stability of β phase in AlCuMg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 564, 186-191	5.3	14
24	Growth of β Plates and Its Effect on Mechanical Properties in Al-Cu-Mg-Ag Alloy with High Content of Silver. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 1708-1715	1.6	5
23	On the interface and mechanical property of Ti/Al8%Cu0.5%Mg0.4%Ag bimetal composite produced by cold-roll bonding and subsequent annealing treatment. <i>Materials Letters</i> , 2012 , 74, 89-92	3.3	17
22	Reprecipitation behavior in AlCu binary alloy after severe plastic deformation-induced dissolution of β particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 546, 26-33	5.3	52
21	Severe plastic deformation-induced dissolution of β particles in AlCu binary alloy and subsequent nature aging behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 801-806	5.3	22
20	Enhanced Fatigue Crack Propagation Resistance in an Al-Zn-Mg-Cu Alloy by Retrogression and Reaging Treatment. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2345-2353	1.6	30
19	Effects of Pre-Strain on Exfoliation Corrosion Behavior in Al-Cu-Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 1479-1484	1.6	5
18	Effects of Severe Cold Rolling on Exfoliation Corrosion Behavior of Al-Zn-Mg-Cu-Cr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 1070-1075	1.6	12
17	MICROSTRUCTURAL EVOLUTION AND FLOW BEHAVIOR OF TWIN-ROLL CAST AZ41 MAGNESIUM ALLOY DURING HOT COMPRESSION. <i>International Journal of Modern Physics B</i> , 2012 , 26, 1250181	1.1	
16	STRESS DROP LED BY TWINNING DURING INITIAL STAGE OF HOT COMPRESSION OF TWIN-ROLL CAST Mg8.51%Zn0.49%Zr ALLOY. <i>International Journal of Modern Physics B</i> , 2012 , 26, 1250182	1.1	
15	Enhanced mechanical properties in an AlCuMgAg alloy by duplex aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8060-8064	5.3	13
14	Microstructures and fatigue fracture behavior of an AlCuMgAg alloy with a low Cu/Mg ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 530, 473-480	5.3	34
13	Strain-induced dissolution of CuMg co-clusters and dynamic recrystallization near a fatigue crack tip of an underaged AlCuMg alloy during cyclic loading at ambient temperature. <i>Scripta Materialia</i> , 2011 , 64, 1133-1136	5.6	37
12	Deformation behavior of an AlCuMgMnZr alloy during hot compression. <i>Journal of Materials Science</i> , 2011 , 46, 3708-3715	4.3	40
11	Effects of aging temperature on the precipitation behavior of β phase in an Al-Cu-Mg-Ag alloy. <i>Metals and Materials International</i> , 2011 , 17, 1-6	2.4	6

10	On strain-induced dissolution of θ and θ' particles in AlCu binary alloy during equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2217-2222	5.3	60
9	Alloying behavior of erbium in an AlCuMg alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 201-205	5.7	18
8	Microstructures and fatigue fracture behavior of an AlCuMgAg alloy with addition of rare earth Er. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1806-1814	5.3	64
7	The dissolution behavior of θ phase in AlCu binary alloy during equal channel angular pressing and multi-axial compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4300-4305	5.3	31
6	Existing form and effect of zirconium in pure Mg, Mg-Yb, and Mg-Zn-Yb alloys. <i>Rare Metals</i> , 2009 , 28, 289-296	5.5	2
5	Microstructure and mechanical properties of ZK60Yb magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 478, 101-107	5.3	69
4	Grain Refinement of the Al-Cu-Mg-Ag Alloy with Er and Sc Additions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2853-2858	2.3	35
3	Effects of Temperature Distribution on Microstructure and Mechanical Properties of Hot Extruded AlZnMgCu Alloy Pipe with Variable Cross-Section. <i>Metals and Materials International</i> , 1	2.4	0
2	Evolution of Microstructure, Texture, and Hardness in an Al-Cu-Mg Alloy during Annealing. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	1
1	Dislocation multiplication and dynamics in an aluminium alloy. <i>Philosophical Magazine Letters</i> , 1-11	1	