

Ling-fei Cao

List of Publications by Year in descending order

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66
papers

1,790
citations

257101

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docs citations

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times ranked

1178
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Initial Microstructure on the Hot Deformation Behavior and Microstructure Evolution of Aluminum Alloy AA2060. <i>Metals and Materials International</i> , 2022, 28, 1561-1574.	1.8	2
2	The effect of pre-ageing/stretching on the ageing-hardening behavior of Al-Zn-Mg-Cu alloys correlated with Zn/Mg ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142331.	2.6	30
3	Effect of Nb Content on Microstructure and Mechanical Properties of K4169-Type Superalloy. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 4204-4213.	1.2	3
4	Microstructure and Its Effect on the Intergranular Corrosion Properties of 2024-T3 Aluminum Alloy. <i>Crystals</i> , 2022, 12, 395.	1.0	8
5	Micro porosity and its effect on fatigue performance of 7050 aluminum thick plates. <i>Journal of Central South University</i> , 2022, 29, 912-923.	1.2	4
6	Preface to the special issue on aluminum alloys for transportation. <i>Journal of Central South University</i> , 2022, 29, 741-743.	1.2	1
7	Effect of platform temperature on microstructure and corrosion resistance of selective laser melted Al-Mg-Sc alloy plate. <i>Journal of Central South University</i> , 2022, 29, 999-1014.	1.2	0
8	Aging precipitation behavior and properties of Al-Zn-Mg-Cu-Zr-Er alloy at different quenching rates. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 1070-1082.	1.7	11
9	Study on the Grain Rotation of High-Purity Tantalum during Compression Deformation. <i>Crystals</i> , 2022, 12, 676.	1.0	2
10	Effect of the natural aging time on the age-hardening response and precipitation behavior of the Al-0.4Mg-1.0Si-(Sn) alloy. <i>Materials and Design</i> , 2021, 198, 109307.	3.3	15
11	Effect of Ag on aging precipitation behavior and mechanical properties of aluminum alloy 7075. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 804, 140515.	2.6	39
12	Hot deformation and dynamic recrystallization in Al-Mg-Si alloy. <i>Materials Characterization</i> , 2021, 173, 110976.	1.9	83
13	Simulation of low proportion of dynamic recrystallization in 7055 aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 1902-1915.	1.7	19
14	Investigation on microstructure and mechanical properties of Al-Zn-Mg-Cu alloys with various Zn/Mg ratios. <i>Journal of Materials Science and Technology</i> , 2021, 85, 106-117.	5.6	127
15	Simulation of dynamic recrystallization in an Al-Mg-Si alloy during inhomogeneous hot deformation. <i>Materials Today Communications</i> , 2021, 29, 102810.	0.9	7
16	Effect of retrogression treatments on microstructure, hardness and corrosion behaviors of aluminum alloy 7085. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152264.	2.8	69
17	Simultaneously enhanced strength and ductility of 6xxx Al alloys via manipulating meso-scale and nano-scale structures guided with phase equilibrium. <i>Journal of Materials Science and Technology</i> , 2020, 41, 139-148.	5.6	28
18	Hot Deformation Behavior and Microstructure Characterization of an Al-Cu-Li-Mg-Ag Alloy. <i>Crystals</i> , 2020, 10, 416.	1.0	16

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19	Effect of trace Er on the microstructure and properties of Al–Zn–Mg–Cu–Zr alloys during heat treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139807.	2.6	58
20	Effect of quenching rate on strengthening behavior of an Al-Zn-Mg-Cu alloy during natural ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 793, 139900.	2.6	16
21	In-situ micro-compression of single-crystal aluminum alloy 6063. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 775, 138974.	2.6	2
22	Effect of ageing temperature on microstructure, mechanical property and corrosion behavior of aluminum alloy 7085. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153792.	2.8	43
23	Influence of Sn on the precipitation and hardening response of natural aged Al-0.4Mg-1.0Si alloy artificial aged at different temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 765, 138250.	2.6	16
24	Orientation-dependent grain boundary characteristics in tantalum upon the change of strain path. <i>Materials Characterization</i> , 2019, 154, 277-284.	1.9	8
25	The microstructure and property of W/Ti multilayer composites prepared by spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 79, 138-144.	1.7	5
26	The microstructural evolution of aluminum alloy 7055 manufactured by hot thermo-mechanical process. <i>Journal of Alloys and Compounds</i> , 2019, 796, 103-110.	2.8	27
27	Effect of Ag on age-hardening response of Al-Zn-Mg-Cu alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 265-268.	2.6	33
28	Effect of Heat Treatment Condition on the Flow Behavior and Recrystallization Mechanisms of Aluminum Alloy 7055. <i>Materials</i> , 2019, 12, 311.	1.3	25
29	A highly [001]-textured Sb ₂ Se ₃ photocathode for efficient photoelectrochemical water reduction. <i>Nanoscale</i> , 2019, 11, 22871-22879.	2.8	41
30	Analysis of atomic distribution near grain boundary in Zr Sn Nb Fe-(Cu) alloys by atom probe tomography. <i>Journal of Nuclear Materials</i> , 2019, 515, 135-139.	1.3	2
31	The microstructure and tensile properties of W/Ti multilayer composites prepared by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019, 780, 116-130.	2.8	25
32	The structural and compositional evolution of precipitates in Al-Mg-Si-Cu alloy. <i>Acta Materialia</i> , 2018, 145, 437-450.	3.8	197
33	Quantitative analysis: How annealing temperature influences recrystallization texture and grain shape in tantalum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 72, 244-252.	1.7	18
34	The microstructure and formation mechanism of face-centered cubic Ti in commercial pure Ti foils during tensile deformation at room temperature. <i>Materials Characterization</i> , 2018, 136, 257-263.	1.9	34
35	Effect of pre-recovery on subsequent recrystallization kinetics in moderately deformed and supersaturated Al-Mn alloys. <i>Journal of Central South University</i> , 2018, 25, 534-542.	1.2	2
36	The evolution of shear bands in Ta-2.5W alloy during cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 726, 259-273.	2.6	11

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37	Effect of ageing temperature on precipitation of Al-Cu-Li-Mn-Zr alloy. Journal of Central South University, 2018, 25, 1340-1349.	1.2	8
38	Strain accommodation of $\langle 110 \rangle$-normal direction-oriented grains in micro-shear bands of high-purity tantalum. Journal of Materials Science, 2018, 53, 12543-12552.	1.7	13
39	Crystallographic analysis of nucleation for random orientations in high-purity tantalum. Journal of Materials Research, 2018, 33, 1755-1763.	1.2	4
40	Quantifying the grain boundary segregation strengthening induced by post-ECAP aging in an Al-5Cu alloy. Acta Materialia, 2018, 155, 199-213.	3.8	62
41	Effect of pre-ageing on dynamic strain ageing in Al-Mg-Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 687, 323-331.	2.6	25
42	Influence of pre-ageing on the stretch formability of Al-Mg-Si automotive sheet alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 697, 79-85.	2.6	21
43	Tailoring the microstructure and mechanical properties of the final Al-Mn foils by different intermediate annealing process. Journal of Materials Science and Technology, 2017, 33, 961-970.	5.6	7
44	Improvement of strength and ductility of Al-Cu-Li alloy through cryogenic rolling followed by aging. Transactions of Nonferrous Metals Society of China, 2017, 27, 1920-1927.	1.7	29
45	Microstructure characterization of Al-cladded Al-Zn-Mg-Cu sheet in different hot deformation conditions. Transactions of Nonferrous Metals Society of China, 2017, 27, 1689-1697.	1.7	10
46	Investigation on formation mechanism of T1 precipitate in an Al-Cu-Li alloy. Journal of Alloys and Compounds, 2017, 723, 661-666.	2.8	72
47	The Influence of Composition on the Clustering and Precipitation Behavior of Al-Mg-Si-Cu Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 459-473.	1.1	60
48	Influence of pre-recovery on the subsequent recrystallization and mechanical properties of a twin-roll cast Al-Mn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 63-72.	2.6	25
49	Flow behavior and microstructure evolution of 6A82 aluminium alloy with high copper content during hot compression deformation at elevated temperatures. Transactions of Nonferrous Metals Society of China, 2016, 26, 649-657.	1.7	27
50	The evolution of dislocation microstructure in electron beam melted Ta-2.5W alloy during cold rolling. International Journal of Refractory Metals and Hard Materials, 2016, 61, 136-146.	1.7	7
51	The influence of Mg/Si ratio and Cu content on the stretch formability of 6xxx aluminium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 688-697.	2.6	68
52	On the Role of C Addition on α Precipitation in a β Titanium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 1089-1095.	1.1	6
53	The effect of HIPping pressure on phase transformations in Ti-5Al-5Mo-3V-3Cr. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598, 207-216.	2.6	13
54	Effect of pre-ageing and natural ageing on the paint bake response of alloy AA6181A. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 571, 77-82.	2.6	45

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55	Clustering behaviour in an Al-Mg-Si-Cu alloy during natural ageing and subsequent under-ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 257-261.	2.6	80
56	Keeping gallium metal to liquid state under the freezing point by using silica nanoparticles. Applied Physics Letters, 2011, 99, .	1.5	11
57	SYNTHESIS OF AN IONIC LIQUID-BASED MAGNETORHEOLOGICAL FLUID DISPERSING $Fe_{84}Nb_3V_4B_9$ POWDERS. International Journal of Modern Physics B, 2010, 24, 1227-1234.		
58	The annealing characteristics of pure molybdenum bars manufactured by a modified technique. Journal of Alloys and Compounds, 2008, 462, 386-391.	2.8	13
59	Effect of cold rolling on properties and microstructures of dispersion strengthened copper alloys. Transactions of Nonferrous Metals Society of China, 2008, 18, 333-339.	1.7	8
60	Size and shape effects on Curie temperature of ferromagnetic nanoparticles. Transactions of Nonferrous Metals Society of China, 2007, 17, 1451-1455.	1.7	43
61	Thermal behavior and structure of $Fe_{84}Nb_7B_9$ nanocrystalline powders. Transactions of Nonferrous Metals Society of China, 2006, 16, 299-303.	1.7	6
62	Thermal stability of Fe, Co, Ni metal nanoparticles. Physica Status Solidi (B): Basic Research, 2006, 243, 2745-2755.	0.7	29
63	Thermal stability of indium nanocrystals: A theoretical study. Materials Chemistry and Physics, 2006, 96, 418-421.	2.0	28
64	A simplified model to calculate the higher surface energy of free-standing nanocrystals. Physica Status Solidi (B): Basic Research, 2005, 242, R76-R78.	0.7	28
65	Reply to "Comment on "A simplified model to calculate the higher surface energy of free-standing nanocrystals" [phys. stat. sol. (b)242, No. 15, R129-R130 (2005)]. Physica Status Solidi (B): Basic Research, 2005, 242, R131-R133.	0.7	1
66	MELTING-THERMODYNAMIC CHARACTERISTICS OF Fe, Co, Ni MAGNETIC NANOCRYSTALS. Modern Physics Letters B, 2005, 19, 1253-1260.	1.0	2