Ling-fei Cao

List of Publications by Year
in descending order

66 papers	1,790 citations	257450 24 h-index	289244 40 g-index
67 all docs	67 docs citations	67 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. Metals and Materials International, 2022, 28, 1561-1574.	3.4	2
2	The effect of pre-ageing/stretching on the ageing-hardening behavior of Alâ€“Znâ€“Mgâ€“Cu alloys correlated with Zn/Mg ratio. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 830, 142331.	5.6	30
3	Effect of Nb Content on Microstructure and Mechanical Properties of K4169-Type Superalloy. Journal of Materials Engineering and Performance, 2022, 31, 4204-4213.	2.5	3
4	Microstructure and Its Effect on the Intergranular Corrosion Properties of 2024-T3 Aluminum Alloy. Crystals, 2022, 12, 395.	2.2	8
5	Micro porosity and its effect on fatigue performance of 7050 aluminum thick plates. Journal of Central South University, 2022, 29, 912-923.	3.0	4
6	Preface to the special issue on aluminum alloys for transportation. Journal of Central South University, 2022, 29, 741-743.	3.0	1
7	Effect of platform temperature on microstructure and corrosion resistance of selective laser melted Al-Mg-Sc alloy plate. Journal of Central South University, 2022, 29, 999-1014.	3.0	0
8	Aging precipitation behavior and properties of Alâ€“Znâ€“Mgâ€“Cuâ€“Zrâ€“Er alloy at different quenching rates. Transactions of Nonferrous Metals Society of China, 2022, 32, 1070-1082.	4.2	11
9	Study on the Grain Rotation of High-Purity Tantalum during Compression Deformation. Crystals, 2022, 12, 676.	2.2	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. Materials and Design, 2021, 198, 109307.	7.0	15
11	Effect of Ag on aging precipitation behavior and mechanical properties of aluminum alloy 7075. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140515.	5.6	39
12	Hot deformation and dynamic recrystallization in Al-Mg-Si alloy. Materials Characterization, 2021, 173, 110976.	4.4	83
13	Simulation of low proportion of dynamic recrystallization in 7055 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 1902-1915.	4.2	19
14	Investigation on microstructure and mechanical properties of Al-Zn-Mg-Cu alloys with various Zn/Mg ratios. Journal of Materials Science and Technology, 2021, 85, 106-117.	10.7	127
15	Simulation of dynamic recrystallization in an Al-Mg-Si alloy during inhomogeneous hot deformation. Materials Today Communications, 2021, 29, 102810.	1.9	7
16	Effect of retrogression treatments on microstructure, hardness and corrosion behaviors of aluminum alloy 7085. Journal of Alloys and Compounds, 2020, 814, 152264.	5.5	69
17	Simultaneously enhanced strength and ductility of 6xxx Al alloys via manipulating meso-scale and nano-scale structures guided with phase equilibrium. Journal of Materials Science and Technology, 2020, 41, 139-148.	10.7	28
18	Hot Deformation Behavior and Microstructure Characterization of an Al-Cu-Li-Mg-Ag Alloy. Crystals, 2020, 10, 416.	2.2	16

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19	Effect of trace Er on the microstructure and properties of Alâ€“Znâ€“Mgâ€“Cuâ€“Zr alloys during heat treatments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139807.	5.6	58
20	Effect of quenching rate on strengthening behavior of an Al-Zn-Mg-Cu alloy during natural ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 793, 139900.	5.6	16
21	In-situ micro-compression of single-crystal aluminum alloy 6063. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 775, 138974.	5.6	2
22	Effect of ageing temperature on microstructure, mechanical property and corrosion behavior of aluminum alloy 7085. Journal of Alloys and Compounds, 2020, 823, 153792.	5.5	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. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138250.	5.6	16
24	Orientation-dependent grain boundary characteristics in tantalum upon the change of strain path. Materials Characterization, 2019, 154, 277-284.	4.4	8
25	The microstructure and property of W/Ti multilayer composites prepared by spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2019, 79, 138-144.	3.8	5
26	The microstructural evolution of aluminum alloy 7055 manufactured by hot thermo-mechanical process. Journal of Alloys and Compounds, 2019, 796, 103-110.	5.5	27
27	Effect of Ag on age-hardening response of Al-Zn-Mg-Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 265-268.	5.6	33
28	Effect of Heat Treatment Condition on the Flow Behavior and Recrystallization Mechanisms of Aluminum Alloy 7055. Materials, 2019, 12, 311.	2.9	25
29	A highly [001]-textured Sb₂Se₃ photocathode for efficient photoelectrochemical water reduction. Nanoscale, 2019, 11, 22871-22879.	5.6	41
30	Analysis of atomic distribution near grain boundary in Zr Sn Nb Fe-(Cu) alloys by atom probe tomography. Journal of Nuclear Materials, 2019, 515, 135-139.	2.7	2
31	The microstructure and tensile properties of W/Ti multilayer composites prepared by spark plasma sintering. Journal of Alloys and Compounds, 2019, 780, 116-130.	5.5	25
32	The structural and compositional evolution of precipitates in Al-Mg-Si-Cu alloy. Acta Materialia, 2018, 145, 437-450.	7.9	197
33	Quantitative analysis: How annealing temperature influences recrystallization texture and grain shape in tantalum. International Journal of Refractory Metals and Hard Materials, 2018, 72, 244-252.	3.8	18
34	The microstructure and formation mechanism of face-centered cubic Ti in commercial pure Ti foils during tensile deformation at room temperature. Materials Characterization, 2018, 136, 257-263.	4.4	34
35	Effect of pre-recovery on subsequent recrystallization kinetics in moderately deformed and supersaturated Al-Mn alloys. Journal of Central South University, 2018, 25, 534-542.	3.0	2
36	The evolution of shear bands in Ta-2.5W alloy during cold rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 259-273.	5.6	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.	3.0	8
38	Strain accommodation of <110>-normal direction-oriented grains in micro-shear bands of high-purity tantalum. Journal of Materials Science, 2018, 53, 12543-12552.	3.7	13
39	Crystallographic analysis of nucleation for random orientations in high-purity tantalum. Journal of Materials Research, 2018, 33, 1755-1763.	2.6	4
40	Quantifying the grain boundary segregation strengthening induced by post-ECAP aging in an Al-5Cu alloy. Acta Materialia, 2018, 155, 199-213.	7.9	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.	5.6	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.	5.6	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.	10.7	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.	4.2	29
45	Microstructure characterization of Al-cladded Alâ€“Znâ€“Mgâ€“Cu sheet in different hot deformation conditions. Transactions of Nonferrous Metals Society of China, 2017, 27, 1689-1697.	4.2	10
46	Investigation on formation mechanism of T1 precipitate in an Al-Cu-Li alloy. Journal of Alloys and Compounds, 2017, 723, 661-666.	5.5	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.	2.2	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.	5.6	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.	4.2	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.	3.8	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.	5.6	68
52	On the Role of C Addition on Î± Precipitation in a Î² Titanium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 1089-1095.	2.2	6
53	The effect of HIPping pressure on phase transformations in Tiâ€“5Alâ€“5Moâ€“5Vâ€“3Cr. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598, 207-216.	5.6	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.	5.6	45

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55	Clustering behaviour in an Alâ€“Mgâ€“Siâ€“Cu alloy during natural ageing and subsequent under-ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 257-261.	5.6	80
56	Keeping gallium metal to liquid state under the freezing point by using silica nanoparticles. Applied Physics Letters, 2011, 99, .	3.3	11
57	SYNTHESIS OF AN IONIC LIQUID-BASED MAGNETORHEOLOGICAL FLUID DISPERSINGFe₈₄Nb₃V₄B₉ POWDERS. International Journal of Modern Physics B, 2010, 24, 1227-1234.	0.6	1
58	The annealing characteristics of pure molybdenum bars manufactured by a modified technique. Journal of Alloys and Compounds, 2008, 462, 386-391.	5.5	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.	4.2	8
60	Size and shape effects on Curie temperature of ferromagnetic nanoparticles. Transactions of Nonferrous Metals Society of China, 2007, 17, 1451-1455.	4.2	43
61	Thermal behavior and structure of Fe84Nb7B9 nanocrystalline powders. Transactions of Nonferrous Metals Society of China, 2006, 16, 299-303.	4.2	6
62	Thermal stability of Fe, Co, Ni metal nanoparticles. Physica Status Solidi (B): Basic Research, 2006, 243, 2745-2755.	1.5	29
63	Thermal stability of indium nanocrystals: A theoretical study. Materials Chemistry and Physics, 2006, 96, 418-421.	4.0	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.	1.5	28
65	Reply to â€œComment on â€˜A simplified model to calculate the higher surface energy of free-standing nanocrystalsâ€™â€•[phys. stat. sol. (b)242, No. 15, R129-R130 (2005)]. Physica Status Solidi (B): Basic Research, 2005, 242, R131-R133.	1.5	1
66	MELTING-THERMODYNAMIC CHARACTERISTICS OF Fe, Co, Ni MAGNETIC NANOCRYSTALS. Modern Physics Letters B, 2005, 19, 1253-1260.	1.9	2