Gang Sha

List of Publications by Year
in descending order

160 papers	9,554 citations	46984 47 h-index	40954 93 g-index
164 all docs	164 docs citations	164 times ranked	6352 citing authors

#	Article	IF	Citations
1	Early-stage precipitation in Alâ€"Znâ€"Mgâ€"Cu alloy (7050). Acta Materialia, 2004, 52, 4503-4516.	3.8	646
2	Grain boundary stability governs hardening and softening in extremely fine nanograined metals. Science, 2017, 355, 1292-1296.	6.0	572
3	A high-specific-strength and corrosion-resistant magnesium alloy. Nature Materials, 2015, 14, 1229-1235.	13.3	561
4	Microstructural origins of high strength and high ductility in an AlCoCrFeNi2.1 eutectic high-entropy alloy. Acta Materialia, 2017, 141, 59-66.	3.8	501
5	High-content ductile coherent nanoprecipitates achieve ultrastrong high-entropy alloys. Nature Communications, 2018, 9, 4063.	5.8	399
6	High-entropy Al0.3CoCrFeNi alloy fibers with high tensile strength and ductility at ambient and cryogenic temperatures. Acta Materialia, 2017, 123, 285-294.	3.8	378
7	Influence of equal-channel angular pressing on precipitation in an Alâ€"Znâ€"Mgâ€"Cu alloy. Acta Materialia, 2009, 57, 3123-3132.	3.8	253
8	Entropy as a Geneâ€Like Performance Indicator Promoting Thermoelectric Materials. Advanced Materials, 2017, 29, 1702712.	11.1	218
9	Atom probe tomography today. Materials Today, 2007, 10, 36-42.	8.3	216
10	Solute segregation and texture modification in an extruded magnesium alloy containing gadolinium. Scripta Materialia, 2011, 65, 919-921.	2.6	207
11	Nanostructure of aluminium alloy 2024: Segregation, clustering and precipitation processes. Acta Materialia, 2011, 59, 1659-1670.	3.8	191
12	Solute clustering in Alâ€"Cuâ€"Mg alloys during the early stages of elevated temperature ageing. Acta Materialia, 2010, 58, 4923-4939.	3.8	189
13	Dynamic precipitation, segregation and strengthening of an Al-Zn-Mg-Cu alloy (AA7075) processed by high-pressure torsion. Acta Materialia, 2019, 162, 19-32.	3.8	166
14	Microstructural evolution, strengthening and thermal stability of an ultrafine-grained Alâ€"Cuâ€"Mg alloy. Acta Materialia, 2016, 109, 202-212.	3.8	163
15	New insights into the phase transformations to isothermal Ï‰ and Ï‰-assisted Î± in near Î²-Ti alloys. Acta Materialia, 2016, 106, 353-366.	3.8	155
16	Analysis of strengthening in AA6111 during the early stages of aging: Atom probe tomography and yield stress modelling. Acta Materialia, 2013, 61, 7285-7303.	3.8	142
17	Bulk nanocrystalline high-strength magnesium alloys prepared via rotary swaging. Acta Materialia, 2020, 200, 274-286.	3.8	134
18	Solute nanostructures and their strengthening effects in Alâ€"7Siâ€"0.6Mg alloy F357. Acta Materialia, 2012, 60, 692-701.	3.8	132

#	Article	IF	Citations
19	Strength, grain refinement and solute nanostructures of an Alâ€"Mgâ€"Si alloy (AA6060) processed by high-pressure torsion. Acta Materialia, 2014, 63, 169-179.	3.8	123
20	Mechanisms for enhanced plasticity in magnesium alloys. Acta Materialia, 2015, 82, 344-355.	3.8	119
21	Segregation of solute elements at grain boundaries in an ultrafine grained Alâ€"Znâ€"Mgâ€"Cu alloy. Ultramicroscopy, 2011, 111, 500-505.	0.8	107
22	Effects of temperature on the irradiation responses of Al0.1CoCrFeNi high entropy alloy. Scripta Materialia, 2018, 144, 31-35.	2.6	103
23	Evolution of solute clustering in Alâ€"Cuâ€"Mg alloys during secondary ageing. Acta Materialia, 2010, 58, 1795-1805.	3.8	102
24	A medium-range structure motif linking amorphous and crystalline states. Nature Materials, 2021, 20, 1347-1352.	13.3	92
25	Effect of Al and Gd Solutes on the Strain Rate Sensitivity of Magnesium Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 734-743.	1.1	91
26	Ultrastrong nanocrystalline steel with exceptional thermal stability and radiation tolerance. Nature Communications, 2018, 9, 5389.	5.8	88
27	Precipitation strengthening in an ultralight magnesium alloy. Nature Communications, 2019, 10, 1003.	5.8	88
28	Kinetic Monte Carlo simulation of clustering in an Alâ€"Znâ€"Mgâ€"Cu alloy (7050). Acta Materialia, 2005, 53, 907-917.	3.8	86
29	Influence of heat treatment on the microstructure, texture and formability of 2024 aluminium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 48-60.	2.6	85
30	Uniting tensile ductility with ultrahigh strength via composition undulation. Nature, 2022, 604, 273-279.	13.7	80
31	Enhanced dispersoid precipitation and dispersion strengthening in an Al alloy by microalloying with Cd. Acta Materialia, 2018, 157, 114-125.	3.8	79
32	The mechanism of Ï‰-assisted Î± phase formation in near Î²-Ti alloys. Scripta Materialia, 2015, 104, 75-78.	2.6	75
33	Ultrastrong low-carbon nanosteel produced by heterostructure and interstitial mediated warm rolling. Science Advances, 2020, 6, .	4.7	75
34	Strengthening of an Alâ€"Cuâ€"Mg alloy processed by high-pressure torsion due to clusters, defects and defectâ€"cluster complexes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 10-20.	2.6	70
35	Precipitation hardening of an Mgâ€"5Znâ€"2Gdâ€"0.4Zr (wt. %) alloy. Acta Materialia, 2016, 108, 207-218.	3.8	70
36	Quasi-peritectic solidification reactions in 6xxx series wrought Al alloys. Acta Materialia, 2003, 51, 1883-1897.	3.8	69

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37	Determining the composition of small features in atom probe: bcc Cu-rich precipitates in an Fe-rich matrix. Ultramicroscopy, 2009, 109, 535-540.	0.8	66
38	Growth related metastable phase selection in a 6xxx series wrought Al alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 612-616.	2.6	64
39	Atomistic structure of Cu-containing Î²â€³ precipitates in an Alâ€“Mgâ€“Siâ€“Cu alloy. Scripta Materialia, 2014, 75, 86-89.	2.6	63
40	Solute-dislocation interactions and creep-enhanced Cu precipitation in a novel ferritic-martensitic steel. Acta Materialia, 2020, 195, 199-208.	3.8	60
41	Field evaporation behavior during irradiation with picosecond laser pulses. Applied Physics Letters, 2008, 92, .	1.5	58
42	Microstructural evolution and phase transformation in twinning-induced plasticity steel induced by high-pressure torsion. Acta Materialia, 2016, 109, 300-313.	3.8	58
43	Finite-element modelling of elastic wave propagation and scattering within heterogeneous media. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160738.	1.0	53
44	Solute clustering in Al-Mg-Si-Cu-(Zn) alloys during aging. Journal of Alloys and Compounds, 2019, 774, 347-363.	2.8	53
45	Non-uniform phase separation in ferrite of a duplex stainless steel. Acta Materialia, 2017, 140, 388-397.	3.8	49
46	Microstructure and mechanical properties of Mgâ€“6Znâ€“xCuâ€“0.6Zr (wt.%) alloys. Journal of Alloys and Compounds, 2011, 509, 3526-3531.	2.8	48
47	A comparison of the structure of solute clusters formed during thermal ageing and irradiation. Ultramicroscopy, 2011, 111, 664-671.	0.8	48
48	Enhanced bake-hardening response of an Alâ€“Mgâ€“Siâ€“Cu alloy with Zn addition. Materials Chemistry and Physics, 2015, 162, 15-19.	2.0	48
49	Overview: Recent Progress in Three-Dimensional Atom Probe Instruments and Applications. Microscopy and Microanalysis, 2007, 13, 408-417.	0.2	46
50	Shearing and rotation of Î²â€³ and Î²Ê¹ precipitates in an Al-Mg-Si alloy under tensile deformation: In-situ and ex-situ studies. Acta Materialia, 2021, 220, 117310.	3.8	46
51	Improvement of grain boundary tolerance by minor additions of Hf and B in a second generation single crystal superalloy. Acta Materialia, 2019, 176, 109-122.	3.8	45
52	Characterization of precipitates in an aged 7xxx series Al alloy. Surface and Interface Analysis, 2004, 36, 564-568.	0.8	44
53	Influence of Zn on the distribution and composition of heterogeneous solute-rich features in peak aged Al-Mg-Si-Cu alloys. Scripta Materialia, 2019, 159, 5-8.	2.6	44
54	Enhanced grain refinement of an Alâ€“Mgâ€“Si alloy by high-pressure torsion processing at 100Â°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 552, 415-418.	2.6	43

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55	Enhancement of strength-ductility balance of heavy Ti and Al alloyed FeCoNiCr high-entropy alloys via boron doping. Journal of Materials Science and Technology, 2021, 75, 154-163.	5.6	42
56	Quantitative measurement for the microstructural parameters of nano-precipitates in Al-Mg-Si-Cu alloys. Materials Characterization, 2016, 118, 352-362.	1.9	41
57	A New Approach to the Determination of Concentration Profiles in Atom Probe Tomography. Microscopy and Microanalysis, 2012, 18, 359-364.	0.2	40
58	Solute clustering and solute nanostructures in an Alâ€“3.5Cuâ€“0.4Mgâ€“0.2Ge alloy. Acta Materialia, 2013, 61, 3724-3734.	3.8	39
59	The influence of partitioning on the growth of intragranular Î± in near-Î² Ti alloys. Journal of Alloys and Compounds, 2015, 643, 212-222.	2.8	39
60	Age-hardening effect and formation of nanoscale composite precipitates in a NiAlMnCu-containing steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 340-347.	2.6	39
61	Origins of high ductility exhibited by an extruded magnesium alloy Mg-1.8Zn-0.2Ca: Experiments and crystal plasticity modeling. Journal of Materials Science and Technology, 2021, 84, 27-42.	5.6	39
62	Field ion microscopy and 3-D atom probe analysis of Al3Zr particles in 7050 Al alloy. Ultramicroscopy, 2005, 102, 151-159.	0.8	38
63	Microstructural evolution of Fe-rich particles in an Alâ€“Znâ€“Mgâ€“Cu alloy during equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4742-4749.	2.6	38
64	Numerical and analytic modelling of elastodynamic scattering within polycrystalline materials. Journal of the Acoustical Society of America, 2018, 143, 2394-2408.	0.5	38
65	Prominent role of multi-scale microstructural heterogeneities on superplastic deformation of a high solid solution Alâ€“7Mg alloy. International Journal of Plasticity, 2021, 146, 103108.	4.1	38
66	The role of Ï‰ in the precipitation of Î± in near-Î² Ti alloys. Scripta Materialia, 2016, 117, 92-95.	2.6	37
67	High temperature stabilization of a nanostructured Cu-Y2O3 composite through microalloying with Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 80-87.	2.6	35
68	Far-field scattering model for wave propagation in random media. Journal of the Acoustical Society of America, 2015, 137, 2655-2669.	0.5	34
69	Strengthening mechanisms in an ultrafine-grained Al Zn Mg Cu alloy processed by high pressure torsion at different temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 223-232.	2.6	34
70	Mechanical behaviors of as-deposited and annealed nanostructured Niâ€“Fe alloys. Scripta Materialia, 2011, 65, 1-4.	2.6	33
71	Formation of solute nanostructures in an Alâ€“Znâ€“Mg alloy during long-term natural aging. Journal of Alloys and Compounds, 2020, 821, 153572.	2.8	33
72	Bauschinger Effect and Back Stress in Gradient Cu-Ge Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3943-3950.	1.1	32

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73	Nucleation driving force for ï‰-assisted formation of î± and associated ï‰ morphology in î²-Ti alloys. Scripta Materialia, 2018, 155, 149-154.	2.6	31
74	Stabilizing a severely deformed Alâ€“7Mg alloy with a multimodal grain structure via Mg solute segregation. Journal of Materials Science and Technology, 2021, 89, 141-149.	5.6	31
75	Effect of laser pulsing on the composition measurement of an Alâ€“Mgâ€“Siâ€“Cu alloy using three-dimensional atom probe. Ultramicroscopy, 2009, 109, 580-584.	0.8	30
76	Hardening and microstructural reactions in high-temperature equal-channel angular pressed Mgâ€“Ndâ€“Gdâ€“Znâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5092-5099.	2.6	30
77	Enhanced age-hardening response of Alâ€“4Mgâ€“1Cu (wt.%) microalloyed with Ag and Si. Scripta Materialia, 2013, 68, 857-860.	2.6	30
78	Atom Probe Tomography of Solute Distributions in Mg-Based Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2480-2487.	1.1	29
79	The effects of microalloying on the precipitate microstructure at grain boundary regions in an Mg-Zn-based alloy. Materials and Design, 2017, 119, 290-296.	3.3	29
80	Microscopy and microanalysis of complex nanosized strengthening precipitates in new generation commercial Alâ€“Cuâ€“Li alloys. Journal of Microscopy, 2014, 255, 128-137.	0.8	28
81	Hydrogen-induced decomposition of Zr-rich cores in an Mgâˆ'6Znâˆ'0.6Zrâˆ'0.5Cu alloy. Acta Materialia, 2012, 60, 5615-5625.	3.8	26
82	Nanoscale pathways for human tooth decay â€“ Central planar defect, organic-rich precipitate and high-angle grain boundary. Biomaterials, 2020, 235, 119748.	5.7	26
83	Attenuation and velocity of elastic waves in polycrystals with generally anisotropic grains: Analytic and numerical modeling. Journal of the Acoustical Society of America, 2020, 147, 2442-2465.	0.5	26
84	Characterization of Fe-Rich Intermetallic Phases in a 6xxx Series Al Alloy. Materials Science Forum, 2006, 519-521, 1721-1726.	0.3	23
85	An atom probe characterisation of grain boundaries in an aluminium alloy processed by equal-channel angular pressing. International Journal of Materials Research, 2009, 100, 1674-1678.	0.1	23
86	Atomic-scale homogenization in an fcc-based high-entropy alloy via severe plastic deformation. Journal of Alloys and Compounds, 2016, 686, 15-23.	2.8	23
87	Efficient Er/Oâ€Doped Silicon Lightâ€Emitting Diodes at Communication Wavelength by Deep Cooling. Advanced Optical Materials, 2020, 8, 2000720.	3.6	23
88	Rotational transitions of N2(aâ€‰1Îg) induced by collisions with Ar/He and N2(aâ€‰1Îg)â€“N2(Xâ€‰1Î£+g) rovibronic energy transfer studied by laser REMPI spectroscopy. Journal of Chemical Physics, 1987, 87, 5251-5255.	1.2	22
89	Precipitation of the î±-phase in an ultrafine grained beta-titanium alloy processed by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 605, 144-150.	2.6	22
90	Solute clustering and precipitation in an Alâ€“Cuâ€“Mgâ€“Agâ€“Si model alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 366-376.	2.6	22

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91	Rovibronic energy transfer from N2(aâ€‰1Ï€g) to CO(Aâ€‰1Ï€) studied by laser REMPI spectroscopy. Journal of Chemical Physics, 1987, 87, 2742-2749.	1.2	21
92	Effect of Grain Refiner on Intermetallic Phase Formation in Directional Solidification of 6xxx Series Wrought Al Alloys. Materials Science Forum, 2000, 331-337, 253-258.	0.3	21
93	Precipitation microstructure and age-hardening response of an Mgâ€“Gdâ€“Ndâ€“Znâ€“Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 1-6.	2.6	21
94	Maximizing the accuracy of finite element simulation of elastic wave propagation in polycrystals. Journal of the Acoustical Society of America, 2020, 148, 1890-1910.	0.5	21
95	Application of atom probe tomography in understanding high entropy alloys: 3D local chemical compositions in atomic scale analysis. Progress in Materials Science, 2022, 123, 100854.	16.0	21
96	Effects of isothermal annealing on the microstructures and mechanical properties of a FeCuSiBAl amorphous alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 543, 145-151.	2.6	19
97	Effect of extrusion temperature on microstructure and properties of an ultrafine-grained Cu matrix nanocomposite fabricated by powder compact extrusion. Journal of Materials Science, 2018, 53, 5389-5401.	1.7	19
98	Segregation induced hardening in annealed nanocrystalline Ni-Fe alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 735, 354-360.	2.6	19
99	Comparison of the number densities of nanosized Cu-rich precipitates in ferritic alloys measured using EELS and EDX mapping, HREM and 3DAP. Journal of Materials Science, 2006, 41, 2559-2565.	1.7	18
100	Confined Auâ€Pd Ensembles in Mesoporous TiO₂ Spheres for the Photocatalytic Oxidation of Acetaldehyde. ChemCatChem, 2013, 5, 3557-3561.	1.8	18
101	On the atomic model of Guinier-Preston zones in Al-Mg-Si-Cu alloys. Journal of Alloys and Compounds, 2018, 745, 644-650.	2.8	18
102	Enhanced nucleation and precipitation hardening in Alâ€“Mgâ€“Si(â€“Cu) alloys with minor Cd additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139698.	2.6	18
103	Rapid dislocation-mediated solute repartitioning towards strain-aging hardening in a fine-grained dilute magnesium alloy. Materials Research Letters, 2022, 10, 21-28.	4.1	17
104	Composition-dependent dynamic precipitation and grain refinement in Al-Si system under high-pressure torsion. Journal of Materials Science and Technology, 2021, 68, 199-208.	5.6	16
105	Irradiation-induced segregation/desegregation at grain boundaries of a ferritic Fe-Mn-Si steel. Acta Materialia, 2021, 220, 117297.	3.8	16
106	A new dynamic recrystallization mechanism in adiabatic shear band of an Î±/Î² dual phase titanium alloy: Composition redistribution. Scripta Materialia, 2022, 206, 114229.	2.6	16
107	Precipitation microstructure and their strengthening effects of an Mgâ€“2.8Ndâ€“0.6Znâ€“0.4Zr alloy with a 0.2 wt.% Y addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 538, 272-280.	2.6	15
108	Phase stability of an high-entropy Al-Cr-Fe-Ni-V alloy with exceptional mechanical properties: First-principles and APT investigations. Computational Materials Science, 2019, 170, 109161.	1.4	15

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109	Understanding formation of Mg-depletion zones in Al-Mg alloys under high pressure torsion. Journal of Materials Science and Technology, 2019, 35, 858-864.	5.6	14
110	Longitudinal wave attenuation in polycrystals with elongated grains: 3D numerical and analytical modeling. Journal of the Acoustical Society of America, 2021, 149, 2377-2394.	0.5	14
111	Direct Imaging of Liquidâ€"Nanoparticle Interfaces with Atom Probe Tomography. Journal of Physical Chemistry C, 2020, 124, 19389-19395.	1.5	13
112	Enhanced tensile properties in a Cu-Al2O3 alloy via trace Ti addition. Journal of Alloys and Compounds, 2021, 862, 158687.	2.8	13
113	Elastic wave velocity dispersion in polycrystals with elongated grains: Theoretical and numerical analysis. Journal of the Acoustical Society of America, 2020, 148, 3645-3662.	0.5	13
114	Effects of Si addition on the microstructure evolution of Alâ€"Cuâ€"Mg alloys in the Î±â€‰+â€‰Sâ€‰+â€‰T phase field. Philosophical Magazine Letters, 2013, 93, 648-654.	0.5	12
115	Universal scaling of transverse wave attenuation in polycrystals. Ultrasonics, 2018, 88, 84-96.	2.1	12
116	Enhanced inter-diffusion of immiscible elements Fe/Cu at the interface of FeZr/CuZr amorphous multilayers. Materials Research Letters, 2018, 6, 55-60.	4.1	12
117	Ultrastrong nanocrystalline oxide-dispersion-strengthened ferritic alloy with exceptional thermal stability. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 821, 141616.	2.6	12
118	Inversion methodology for ultrasonic characterization of polycrystals with clusters of preferentially oriented grains. Ultrasonics, 2021, 115, 106433.	2.1	11
119	Partitioning and segregation of trace element Sn in a low-alloy steel. Philosophical Magazine Letters, 2007, 87, 327-339.	0.5	10
120	Effects of arsenic on the distribution and mode of occurrence of gold during fluid-pyrite interaction: A case study of pyrite from the Qiucun gold deposit, China. American Mineralogist, 2022, 107, 914-929.	0.9	10
121	Influence of Low Level Ag Additions on Mgâ€Alloy AZ91. Advanced Engineering Materials, 2013, 15, 485-490.	1.6	9
122	Understanding structural evolution of nanostructured Cu-Al2O3 composite powders during thermomechanical processing. Materialia, 2018, 4, 268-275.	1.3	9
123	Gradient Microstructures and Mechanical Properties of Ti-6Al-4V/Zn Composite Prepared by Friction Stir Processing. Materials, 2019, 12, 2795.	1.3	9
124	Segregation and precipitation at grain boundaries of weathering steels without/with Sb addition. Materials Chemistry and Physics, 2019, 236, 121783.	2.0	9
125	Elemental redistribution in a nanocrystalline Niâ€"Fe alloy induced by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7500-7505.	2.6	8
126	Heterogeneous nucleation of Î²-type precipitates on nanoscale Zr-rich particles in a Mg-6Zn-0.5Cu-0.6Zr alloy. Nanoscale Research Letters, 2012, 7, 300.	3.1	8

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127	Effect of solution treatment on precipitation and age-hardening response of an Alâ€“4Mgâ€“1Cuâ€“0.5Siâ€“0.4Ag (wt%) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 599, 64-68.	2.6	8
128	Si-induced precipitation modification and related age-hardening response of an Alâ€“4Mgâ€“1Cuâ€“0.5Si alloy. Materials Chemistry and Physics, 2017, 193, 421-426.	2.0	8
129	Tailoring microstructure of metallic glass for delocalized plasticity by pressure annealing: Forward and inverse studies. Acta Materialia, 2021, 220, 117282.	3.8	8
130	Mechanically Reinforced Artificial Enamel by Mg²⁺-Induced Amorphous Intergranular Phases. ACS Nano, 2022, 16, 10422-10430.	7.3	8
131	Iron in solution with aluminum matrix after non-equilibrium processing: an atom probe tomography study. Philosophical Magazine Letters, 2017, 97, 118-124.	0.5	7
132	Effect of Pre-strain on the Solute Clustering, Mechanical Properties, and Work-Hardening of a Naturally Aged Al-Cu-Mg Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4121-4134.	1.1	6
133	Effects of atom probe analysis parameters on composition measurement of precipitates in an Al-Mg-Si-Cu alloy. Ultramicroscopy, 2022, 235, 113495.	0.8	6
134	Temperature-dependent-composition of Î· phase in an Al-Zn-Mg-Cu alloy under high pressure torsion: Kinetics and thermodynamics. Acta Materialia, 2022, 237, 118181.	3.8	6
135	Precipitation of quasicrystal approximant phases in an Alâ€“Mgâ€“Cuâ€“Ge alloy. Philosophical Magazine Letters, 2013, 93, 77-84.	0.5	5
136	Influence of experimental parameters on the composition of precipitates in metallic alloys. Ultramicroscopy, 2013, 132, 199-204.	0.8	5
137	Synergistic effects of Cd, Si and Cr additions on precipitation strengthening and thermal stability of dispersoids in AA3003 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142422.	2.6	5
138	Formation of high-temperature inner oxide scale on low alloy steels: Segregation, partitioning and transformation reactions. Corrosion Science, 2022, 195, 109980.	3.0	5
139	Precipitation and solute clustering in aluminium: advanced characterisation techniques. , 2011, , 345-366.		4
140	Corrosion Behaviour of Alâ€“4Mgâ€“1Cu (wt%) Microalloyed with Si and Ag. Advanced Engineering Materials, 2015, 17, 1670-1674.	1.6	4
141	Influence of aging pathways on the evolution of heterogeneous solute-rich features in peak-aged Al-Mg-Si-Cu alloy with a high Mg/Si ratio. Philosophical Magazine Letters, 2019, 99, 49-56.	0.5	4
142	Atom Probe Tomography Analysis of TiCx Powders Synthesized by SHS in Al/Fe/Cuâ€“Tiâ€“C Systems. Materials, 2019, 12, 4095.	1.3	4
143	Precipitation kinetics and morphology evolution of the Co3(Al, W) phase in a medium supersaturation Coâ€“Alâ€“W alloy. Journal of Materials Science, 2021, 56, 2597-2611.	1.7	4
144	Irradiation-induced clustering in a Fe-Mn-Si alloy at different doses and temperatures. Journal of Nuclear Materials, 2021, 557, 153237.	1.3	4

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145	The effect of layer number on the superplasticity of laminate 7475/2091Al alloy. , 2000, 35, 2711-2718.		3
146	Temperature-Dependent Irradiation-Induced Clustering in a Feâ€"Mnâ€"Ni Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4264-4274.	1.1	3
147	The Microstructural Characterization of NiSi-Rich Sub-precipitates Within Cementite in Isothermally Aged Reactor Pressure Vessel Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3992-3999.	1.1	2
148	Revealing Solute Clusters in Coalescence by Atom Probe Tomography Analysis. Microscopy and Microanalysis, 2020, 26, 1079-1087.	0.2	2
149	A new mechanism of surface phase formation on precipitation-hardening alloy under ion irradiation. Applied Surface Science, 2021, 563, 150358.	3.1	2
150	Thermal Ageing Effect of Pressure Vessel Steels. , 2006, , .		1
151	Atom Probe Tomography Characterization of Dopant Distributions in Si FinFET: Challenges and Solutions. Microscopy and Microanalysis, 2020, 26, 36-45.	0.2	1
152	Effect of cobalt on precipitation in Fe-Cr-Co-Mo-Ni-C stainless steels. Materials Letters, 2021, 289, 129439.	1.3	1
153	Ion-irradiation-induced clustering in Fe-Mn-Ni-(Si) steels: Nucleation, growth and chemistry evolution. Journal of Nuclear Materials, 2022, 560, 153477.	1.3	1
154	Characterization of Segregation and Precipitation at Grain Boundaries in Thermally Aged Pressure Vessel Steels. , 2006, , .		0
155	Trace Element Sn Segregation in Cu-rich Precipitates during Thermal Ageing of Pressure Vessel Steels. , 2006, , .		0
156	Effect of Thermal Aging on Microstructural Evolution in Ferrite of Duplex Stainless Steel in Nuclear Power Plant Applications. Materials Science Forum, 0, 898, 818-825.	0.3	0
157	Sensitivity Analysis of Laser Effect on Mg-Gd-Er Alloy. Microscopy and Microanalysis, 2017, 23, 714-715.	0.2	0
158	Self-inhibition effect of metal incorporation in nanoscaled semiconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	0
159	Precipitation Process in Mg-Nd-Zn-Zr-Gd/Y Alloy. , 2011, , 255-259.		0
160	Towards new aluminium alloys through advances in atom probe microscopy. , 2012, , 29-30.		0