Qing Liu

List of Publications by Year
in descending order

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167 papers	6,936 citations	66315 42 h-index	76872 74 g-index
167 all docs	167 docs citations	167 times ranked	3193 citing authors

#	Article	IF	Citations
1	Effect of lamellar structural parameters on the bending fracture behavior of AA1100/AA7075 laminated metal composites. Journal of Materials Science and Technology, 2022, 99, 28-38.	5.6	18
2	A weak texture dependence of Hallâ€“Petch relation in a rare-earth containing magnesium alloy. Journal of Materials Science and Technology, 2022, 99, 251-259.	5.6	33
3	Effect of Hot Rolling and Annealing on Phase Component, Recrystallization, and Mechanical Properties of TC21 Titanium Alloy. Journal of Materials Engineering and Performance, 2022, 31, 2496-2508.	1.2	4
4	Solute atom mediated Hall-Petch relations for magnesium binary alloys. Scripta Materialia, 2022, 210, 114451.	2.6	24
5	Study on the compressive deformation behavior of a basal textured AZ31 magnesium alloy from the perspective of local strain. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 842, 143080.	2.6	12
6	The mechanism for an orientation dependence of grain boundary strengthening in pure titanium. International Journal of Plasticity, 2022, 153, 103276.	4.1	28
7	Tailoring the microstructure and texture of a dual-phase Mgâ€“8Li alloy by varying the rolling path. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 844, 143202.	2.6	5
8	Î² Grain Evolution and Static Recrystallization Mechanism during Hot Rolling and Annealing of Ti-35421 Titanium Alloy. Journal of Materials Engineering and Performance, 2022, 31, 9481-9491.	1.2	1
9	Effect of combined addition of Ag and Cu on the precipitation behavior for an Al-Mg-Si alloy. Materials Characterization, 2021, 171, 110736.	1.9	13
10	Microstructure and mechanical properties of Ti6Al4V/AA6061/AZ31 laminated metal composites (LMCs) fabricated by hot roll bonding. Journal of Alloys and Compounds, 2021, 861, 157943.	2.8	15
11	Hot deformation and dynamic recrystallization in Al-Mg-Si alloy. Materials Characterization, 2021, 173, 110976.	1.9	83
12	Understanding the Role of Short-Range Order in the Nucleation and Transformation of the Bâ€²/Qâ€² Precipitates in Al-Mg-Si(-Cu) Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 3366.	1.1	2
13	A quantitative study on mechanical behavior of Mg alloys with bimodal texture components. Acta Materialia, 2021, 214, 117013.	3.8	35
14	Evolution mechanism of lamellar Î± and interlayered Î² during hot compression of TC21 titanium alloy with a widmanstÃtten structure. Chinese Journal of Aeronautics, 2021, 35, 475-475.	2.8	3
15	Static globularization and grain morphology evolution of Î± and Î² phases during annealing of hot-rolled TC21 titanium alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 2664-2676.	1.7	15
16	Fracture morphology and crack mechanism in pure polycrystalline magnesium under tensionâ€“compression fatigue testing. Rare Metals, 2020, 39, 162-168.	3.6	6
17	Pass number dependence of through-thickness microstructure homogeneity in tantalum sheets under the change of strain path. Materials Characterization, 2020, 160, 110076.	1.9	8
18	On the texture memory effect of a cross-rolled Mg-2Zn-2Gd plate after unidirectional rolling. Journal of Materials Science and Technology, 2020, 41, 98-104.	5.6	19

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19	Effect of strain path change on the through-thickness microstructure during tantalum rolling. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105168.	1.7	9
20	Effect of varying Î± phase fraction on the mechanical properties and deformation mechanisms in a metastable Î²-ZrTiAlV alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138784.	2.6	7
21	Ex-situ study on mechanical properties and deformation mechanism of three typical microstructures in TA19 titanium alloy. Materials Characterization, 2020, 167, 110521.	1.9	28
22	Characterization of shock-induced anomalous 112Â¯1 twinning activity in a Î²-cooled zirconium. Materials Characterization, 2020, 168, 110541.	1.9	3
23	Effects of annealing on the interface microstructures and mechanical properties of hot roll bonded Ti6Al4V/AA6061 clad sheets. Journal of Materials Research and Technology, 2020, 9, 11813-11825.	2.6	17
24	Effect of intermetallic compounds (IMCs) on the interfacial bonding strength and mechanical properties of pre-rolling diffusion ARBed Al/Ti laminated composites. Materials Characterization, 2020, 170, 110731.	1.9	10
25	<math xmlns="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mrow><mml:mo stretchy="true">{</mml:mo><mml:mrow><mml:mn>10</mml:mn><mml:mrow><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mo>Â¯</mml:mo></mml:mover></mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mo stretchy="true">}</mml:mo></mml:mrow></mml:mrow></mml:math> twinning behavior under biaxial tension of Mgâ€“3Alâ€“1Zn plate. International Journal of Plasticity, 2020, 132, 102754.	4.1	36
26	Evolution of interface and collaborative deformation between Ti and steel during hot roll bonding. Materials Characterization, 2020, 164, 110354.	1.9	15
27	Atomic Pd on Graphdiyne/Graphene Heterostructure as Efficient Catalyst for Aromatic Nitroreduction. Advanced Functional Materials, 2019, 29, 1905423.	7.8	112
28	Influence of annealing on the microstructure, interfacial compounds and mechanical properties of hot rolling bonded Ti/steel clad plate with bimetallic interlayered steel and vanadium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 764, 138227.	2.6	19
29	Orientation-dependent grain boundary characteristics in tantalum upon the change of strain path. Materials Characterization, 2019, 154, 277-284.	1.9	8
30	Effect of cross rolling on the interface morphology and mechanical properties of ARBed AA1100/AA7075 laminated metal composites. Journal of Alloys and Compounds, 2019, 805, 617-623.	2.8	9
31	Enhancing the Mechanical Properties of Hot Roll Bonded Al/Ti Laminated Metal Composites (LMCs) by Pre-Rolling Diffusion Process. Metals, 2019, 9, 795.	1.0	13
32	Understanding common grain boundary twins in Mg alloys by a composite Schmid factor. International Journal of Plasticity, 2019, 123, 208-223.	4.1	40
33	Thermal stability of different texture components in extruded Mgâ€“3Alâ€“1Zn alloy. Journal of Magnesium and Alloys, 2019, 7, 577-583.	5.5	21
34	Quantitative prediction of texture effect on Hallâ€“Petch slope for magnesium alloys. Acta Materialia, 2019, 173, 142-152.	3.8	126
35	Effect of grain size on Î±-variant selection in a ZrTiAlV alloy. Science China Technological Sciences, 2019, 62, 982-988.	2.0	5
36	Comparing the Through-Thickness Gradient of the Deformed and Recrystallized Microstructure in Tantalum with Unidirectional and Clock Rolling. Materials, 2019, 12, 169.	1.3	15

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37	Quasi-In-Situ EBSD Observation of the Orientation Evolution in Polycrystalline Tantalum During Rolling Deformation. Acta Metallurgica Sinica (English Letters), 2019, 32, 1015-1020.	1.5	4
38	Deformation and annealing behavior in the â€˜interaction zoneâ€™ of cold-rolled tantalum sheets. Vacuum, 2019, 164, 105-113.	1.6	9
39	Initial orientation analysis of the contribution of pyramidal â€ˆc+aã€‰ slip to the dynamic recrystallization in a Zr-1Sn-0.3Nb alloy under warm to hot deformation. Journal of Alloys and Compounds, 2019, 787, 318-331.	2.8	9
40	Effect of Heat Treatment Condition on the Flow Behavior and Recrystallization Mechanisms of Aluminum Alloy 7055. Materials, 2019, 12, 311.	1.3	25
41	Synthesis of Hydrogenâ€Substituted Graphyne Film for Lithiumâ€“Sulfur Battery Applications. Small, 2019, 15, 1805344.	5.2	42
42	Study of the Qâ€² (Q)-phase precipitation in Alâ€“Mgâ€“Siâ€“Cu alloys by quantification of atomic-resolution transmission electron microscopy images and atom probe tomography. Journal of Materials Science, 2019, 54, 7943-7952.	1.7	17
43	Effects of asymmetrical rolling on through-thickness microstructure and texture of body-centered cubic (BCC) tantalum. International Journal of Refractory Metals and Hard Materials, 2019, 78, 51-60.	1.7	20
44	Effect of titanium grain orientation on the growth of compounds at diffusion bonded titanium/steel interfaces. Materials Characterization, 2019, 148, 243-251.	1.9	28
45	Quasi-in-situ analysis of dependency of deformation mechanism and work-hardening behavior on texture in Mg-2Zn-0.1Ca alloy. Journal of Alloys and Compounds, 2019, 784, 1187-1197.	2.8	31
46	Strain-Path Dependence of $$ { 10ar{1}2} $$ Twinning in a Rolled Mgâ€“3Alâ€“1Zn Alloy: Influence of Twinning Model. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 118-131.	1.1	22
47	Microstructure evolution and static recrystallization during hot rolling and annealing of an equiaxed-structure TC21 titanium alloy. Journal of Alloys and Compounds, 2018, 752, 14-22.	2.8	68
48	Inhomogeneous deformation of {111}<uvw> grain in cold rolled tantalum. Journal of Materials Science and Technology, 2018, 34, 2178-2182.	5.6	18
49	The texture dependence of strength in slip and twinning predominant deformations of Mg-3Al-1Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 717, 34-40.	2.6	18
50	The structural and compositional evolution of precipitates in Al-Mg-Si-Cu alloy. Acta Materialia, 2018, 145, 437-450.	3.8	197
51	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.	1.7	18
52	Dynamic restoration and deformation heterogeneity during hot deformation of a duplex-structure TC21 titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 440-452.	2.6	46
53	overflow="scroll"><mml:mrow><mml:mo stretchy="false">{</mml:mo><mml:mn>10</mml:mn><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mrow><mml:mo stretchy="true">Â¯</mml:mo></mml:mrow></mml:mover><mml:mn>2</mml:mn><mml:mo	2.6	16
54	Varying the strong basal texture in a Mg-3Al-1Zn plate by a new wave-shaped interface rolling. Materials Letters, 2018, 213, 151-153.	1.3	13

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55	Hall-Petch relationship in Mg alloys: A review. Journal of Materials Science and Technology, 2018, 34, 248-256.	5.6	443
56	Effect of initial orientation on dynamic recrystallization of a zirconium alloy during hot deformation. Materials Characterization, 2018, 145, 444-453.	1.9	30
57	Crystallographic orientation dependent crack nucleation during the compression of a widmannstÃtten-structure Î±/Î² titanium alloy. Scripta Materialia, 2018, 156, 110-114.	2.6	62
58	Strain accommodation of <110>-normal direction-oriented grains in micro-shear bands of high-purity tantalum. Journal of Materials Science, 2018, 53, 12543-12552.	1.7	13
59	The effect of hot rolling regime on texture and mechanical properties of an as-cast Mgâ€“2Znâ€“2Gd plate. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 731, 288-295.	2.6	22
60	Crystallographic analysis of nucleation for random orientations in high-purity tantalum. Journal of Materials Research, 2018, 33, 1755-1763.	1.2	4
61	Through-thickness texture gradient of tantalum sputtering target. Rare Metals, 2017, 36, 523-526.	3.6	6
62	Microstructure-based modeling of tensile deformation of a friction stir welded AZ31 Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 687, 63-72.	2.6	34
63	The mechanism for the high dependence of the Hall-Petch slope for twinning/slip on texture in Mg alloys. Acta Materialia, 2017, 128, 313-326.	3.8	247
64	Obtaining high strength and high plasticity in a Mg-3Al-1Zn plate using pre-tension and annealing treatments. Journal of Alloys and Compounds, 2017, 704, 406-412.	2.8	20
65	Thermal stability of extension twins in Mg-3Al-1Zn rods. Journal of Alloys and Compounds, 2017, 696, 428-434.	2.8	15
66	The different hardening effects of tension twins on basal slip and prismatic slip in Mg alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 700, 695-700.	2.6	26
67	Hot deformation behavior and microstructure of AA2195 alloy under plane strain compression. Materials Characterization, 2017, 131, 500-507.	1.9	55
68	Variant selection of {10-12}-{10-12} double twins during the tensile deformation of an AZ31 Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 700, 226-233.	2.6	33
69	Evaluation of Textural Effect on the Rollability of AZ31 Alloys by Wedgeâ€Shaped Sample Design. Advanced Engineering Materials, 2017, 19, 1700035.	1.6	2
70	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
71	Effect of gaseous carbon dioxide on grain refinement in Mg-8Al alloy. Materials Science and Technology, 2017, 33, 2173-2179.	0.8	3
72	Tailoring the Microstructure and Mechanical Property of AZ80 Alloys by Multiple Twinning and Aging Precipitation. Advanced Engineering Materials, 2017, 19, 1700332.	1.6	10

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73	Thermo-mechanically affected zone in AA6111 resistance spot welds. Journal of Materials Processing Technology, 2017, 249, 463-470.	3.1	15
74	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
75	Pyramidal slips in high cycle fatigue deformation of a rolled Mg-3Al-1Zn magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 699, 247-253.	2.6	15
76	Effect of Mo and Bi Additions on the Microstructure of Zrâ€“Crâ€“Fe Alloy After Î²-Quenching. Minerals, Metals and Materials Series, 2017, , 183-192.	0.3	0
77	Developing a Basal Texture with Two Peaks Tilting Towards the Transverse Direction in Hot Rolled Mg-5.7Zn-0.5Zr Plates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4276-4286.	1.1	4
78	The different effects of twin boundary and grain boundary on reducing tension-compression yield asymmetry of Mg alloys. Scientific Reports, 2016, 6, 29283.	1.6	36
79	Comparative study on twinning characteristics during two post-weld compression paths and their effects on joint enhancement. Scientific Reports, 2016, 6, 39779.	1.6	13
80	Observation and analysis of the coexistence of two â€œoppositeâ€•twin modes in a Mg-Al-Zn alloy. Materials and Design, 2016, 102, 196-201.	3.3	17
81	The disordered structure of Qâ€² and C phases in Alâ€“Mgâ€“Siâ€“Cu alloy. Scripta Materialia, 2016, 118, 55-59.	2.6	30
82	Effect of Twin Boundaryâ€“Dislocationâ€“Solute Interaction on Detwinning in a Mgâ€“3Alâ€“1Zn Alloy. Journal of Materials Science and Technology, 2016, 32, 1239-1244.	5.6	32
83	Microstructure, texture and mechanical properties of commercial high-purity thick titanium plates jointed by electron beam welding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 50-57.	2.6	47
84	Twin pattern evolution in a fine-grained Mg alloy subjected to indentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 430-435.	2.6	1
85	Evolution mechanisms of the primary Î± and Î² phases during Î±/Î² deformation of an Î±/Î² titanium alloy TC8. Materials Characterization, 2016, 120, 115-123.	1.9	27
86	Correlation between Flow Behavior and Microstructure Evolution during Î±/Î² Deformation of TA19 Titanium Alloy. Advanced Engineering Materials, 2016, 18, 1808-1815.	1.6	5
87	Compressive mechanical behavior of Al/Mg composite rods with different types of Al sleeve. Acta Materialia, 2016, 120, 379-390.	3.8	98
88	Concurrent inheritance of microstructure and texture after slow Î²â†'Î± cooling of commercially pure Zr. Science China Technological Sciences, 2016, 59, 1771-1776.	2.0	9
89	Twinning characteristic in tension of magnesium alloys and its effect on mechanical properties. Materials and Design, 2016, 107, 503-510.	3.3	40
90	The mechanism of twinning activation and variant selection in magnesium alloys dominated by slip deformation. Journal of Alloys and Compounds, 2016, 687, 352-359.	2.8	46

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91	Crystallographic analysis on the activation of multiple twins in rolled AZ31 Mg alloy sheets during uniaxial and plane strain compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 652, 42-50.	2.6	22
92	A new annealing hardening mechanism in pre-twinned Mgâ€“3Alâ€“1Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 344-351.	2.6	24
93	Tailoring the texture and mechanical anisotropy of a Mgâ€“2Znâ€“2Gd plate by varying the rolling path. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 653, 93-98.	2.6	39
94	Effect of dislocation-twin boundary interaction on deformation by twin boundary migration. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 95-99.	2.6	58
95	Electron backscatter diffraction investigation of duplex-phase microstructure in a forged Zr-2.5Nb alloy. Science China Technological Sciences, 2016, 59, 673-679.	2.0	14
96	Comparative examinations on the activity and variant selection of twinning during tension and compression of magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 658, 229-237.	2.6	17
97	Largely alleviating the orientation dependence by sequentially changing strain paths. Materials and Design, 2016, 97, 464-472.	3.3	36
98	Effects of strain rate on flow stress behavior and dynamic recrystallization mechanism of Al-Zn-Mg-Cu aluminum alloy during hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 204-213.	2.6	115
99	Experimental and numerical investigation of anisotropic and twinning behavior in Mg alloy under uniaxial tension. Materials and Design, 2016, 98, 333-343.	3.3	40
100	Improving the room temperature stretch formability of a Mg alloy thin sheet by pre-twinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 1-8.	2.6	64
101	Annealing induced concentration of basal poles toward the normal direction of a hot rolled Mgâ€“5.7Zn plate. Journal of Alloys and Compounds, 2016, 666, 341-345.	2.8	8
102	Sulfination of alcohols with sodium sulfinates promoted by BF₃Â·OEt₂: an unexpected access. Green Chemistry, 2016, 18, 1874-1879.	4.6	38
103	Iron-catalysed sequential reaction towards Î±-aminonitriles from secondary amines, primary alcohols and trimethylsilyl cyanide. Chemical Communications, 2016, 52, 2776-2779.	2.2	32
104	Simulation of texture evolution and deformation mechanism in Mg-3Al-1Zn alloy during uniaxial compression. Science China Technological Sciences, 2015, 58, 2052-2059.	2.0	9
105	Boron Trifluorideâ‹…Diethyl Etherâ€Catalyzed Etherification of Alcohols: A Metalâ€Free Pathway to Diphenylmethyl Ethers. Advanced Synthesis and Catalysis, 2015, 357, 3115-3120.	2.1	20
106	Umpolung Strategy for Synthesis of Î²-Ketonitriles through Hypervalent Iodine-Promoted Cyanation of Silyl Enol Ethers. Journal of Organic Chemistry, 2015, 80, 7212-7218.	1.7	67
107	Microstructural and textural evolution of commercially pure Zr sheet rolled at room and liquid nitrogen temperatures. Materials and Design, 2015, 85, 296-308.	3.3	73
108	Optimization of the pre-aging treatment for an AA6022 alloy at various temperatures and holding times. Journal of Alloys and Compounds, 2015, 647, 238-244.	2.8	47

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109	Geometrical compatibility factor analysis of paired extension twins in extruded Mgâ€“3Alâ€“1Zn alloys. Materials and Design, 2015, 86, 656-663.	3.3	60
110	The natural aging and precipitation hardening behaviour of Al-Mg-Si-Cu alloys with different Mg/Si ratios and Cu additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 119-126.	2.6	139
111	Improving tensile and compressive properties of magnesium alloy rods via a simple pre-torsion deformation. Materials and Design, 2015, 83, 270-275.	3.3	59
112	The different effects of solute segregation at twin boundaries on mechanical behaviors of twinning and detwinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 365-373.	2.6	25
113	The role of dislocations in strain hardening of an extension twinning predominant deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 636, 389-395.	2.6	24
114	Influence of Torsion Deformation on Textures of Cold Drawing Pearlitic Steel Wires. Acta Metallurgica Sinica (English Letters), 2015, 28, 707-714.	1.5	22
115	Enhancing stretch formability of rolled Mg sheets by pre-inducing contraction twins and recrystallization annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 369-373.	2.6	50
116	Strain compatibility effect on the variant selection of connected twins in magnesium. Materials & Design, 2015, 76, 71-76.	5.1	54
117	Ethers as hydrogen sources in BF₃Â·OEt₂ promoted reduction of diphenylmethyl alcohols, ethers and esters to hydrocarbons. RSC Advances, 2015, 5, 85291-85295.	1.7	18
118	The activation of twinning and texture evolution during bending of friction stir welded magnesium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 646, 145-153.	2.6	30
119	The effect of architecture on the mechanical properties of Mgâ€“3Alâ€“1Zn Rods Containing Hard Al Alloy Cores. Scripta Materialia, 2015, 98, 56-59.	2.6	28
120	Controlling the recrystallization behavior of a Mgâ€“3Alâ€“1Zn alloy containing extension twins. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 622, 178-183.	2.6	59
121	Microstructure characterization and quasi-static failure behavior of resistance spot welds of AA6111-T4 aluminum alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 3879-3885.	1.7	19
122	Effect of subsequent tension and annealing on microstructure evolution and strength enhancement of friction stir welded Mg alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 602, 1-10.	2.6	40
123	Understanding of variant selection and twin patterns in compressed Mg alloy sheets via combined analysis of Schmid factor and strain compatibility factor. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 609, 92-101.	2.6	124
124	Hot deformation behavior of AA7085 aluminum alloy during isothermal compression at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 596, 176-182.	2.6	93
125	Strain localization in friction stir welded magnesium alloy during tension and compression deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 609, 88-91.	2.6	42
126	A comparative study between uniaxial compression and plane strain compression of Mgâ€“3Alâ€“1Zn alloy using experiments and simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 349-358.	2.6	24

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127	{10-12} Twin variants selection mechanisms during twinning, re-twinning and detwinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 612, 431-439.	2.6	52
128	Detwinning behavior of Mgâ€“3Alâ€“1Zn alloy at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 617, 24-30.	2.6	20
129	Twinning characteristic and variant selection in compression of a pre-side-rolled Mg alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 614, 106-115.	2.6	35
130	Deformation bands in fully pearlitic steel during wire drawing. Science China Technological Sciences, 2014, 57, 796-803.	2.0	10
131	Influence of observation plane on twin variant identification in magnesium via trace and misorientation analysis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 558-562.	2.6	19
132	Characteristics of long {10-12} twin bands in sheet rolling of a magnesium alloy. Scripta Materialia, 2014, 74, 96-99.	2.6	102
133	The influence of a secondary twin on the detwinning deformation of a primary twin in Mgâ€“3Alâ€“1Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 81-91.	2.6	54
134	Effect of initial texture on dynamic recrystallization and deformation mechanisms in AZ31 Mg alloy extruded at 573K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 569, 18-26.	2.6	42
135	Deformation mechanisms and dynamic recrystallization of AZ31 Mg alloy with different initial textures during hot tension. Materials & Design, 2013, 50, 382-391.	5.1	39
136	Microstructure and texture evolution in fully pearlitic steel during wire drawing. Science China Technological Sciences, 2013, 56, 1139-1146.	2.0	32
137	Experimental observation of 12 Î± variants inherited from one Î² grain in a Zr alloy. Journal of Nuclear Materials, 2013, 440, 377-381.	1.3	41
138	Energy investigations on the mechanical properties of magnesium alloyed by X = C, B, N, O and vacancy. Frontiers of Materials Science, 2013, 7, 405-412.	1.1	3
139	Influence of pre-torsion deformation on microstructures and properties of cold drawing pearlitic steel wires. Materials & Design, 2013, 50, 285-292.	5.1	34
140	Mechanisms of fracture and inhomogeneous deformation on transverse tensile test of friction-stir-processed AZ31 Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 333-341.	2.6	73
141	Precise determination of the Î±â†'Î±+Î² phase transformation temperature of Zr-1.0Sn-0.3Nb-0.3Fe alloy. Science China Technological Sciences, 2013, 56, 60-65.	2.0	7
142	Changes in texture and microstructure of friction stir welded Mg alloy during post-rolling and their effects on mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 582, 178-187.	2.6	66
143	Microstructure and mechanical properties of friction stir welded dissimilar Mg alloys of ZK60â€“AZ31. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 419-426.	2.6	69
144	HETEROGENEOUS MICROSTRUCTURE AND TEXTURE EVOLUTION DURING FABRICATION OF Zr--Sn--Nb ZIRCONIUM ALLOY SHEETS. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 48, 393-400.	0.3	8

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145	Effect of cooling rate on Î² â†’Î± transformation during quenching of a Zr-0.85Sn-0.4Nb-0.4Fe-0.1Cr-0.05Cu alloy. Science China Technological Sciences, 2012, 55, 2960-2964.	2.0	26
146	Correlation Between Texture Variation and Transverse Tensile Behavior of Friction-Stir-Processed AZ31 Mg Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2500-2508.	1.1	73
147	Strengthening and toughening of magnesium alloy by {10â¯12} extension twins. Scripta Materialia, 2012, 66, 25-28.	2.6	214
148	Improving tensile and compressive properties of magnesium alloy plates by pre-cold rolling. Scripta Materialia, 2012, 66, 1061-1064.	2.6	209
149	Plastic deformation behavior of AZ31 magnesium alloy under multiple passes cross compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 532, 50-57.	2.6	22
150	Effect of crystal orientation on the mechanical properties and strain hardening behavior of magnesium alloy AZ31 during uniaxial compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 588-593.	2.6	167
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