

Zong-Yi

List of Publications by Year in descending order

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159
papers

8,603
citations

36203

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3791
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#	ARTICLE	IF	CITATIONS
1	Evolution mechanisms of microstructure and mechanical properties in a friction stir welded ultrahigh-strength quenching and partitioning steel. <i>Journal of Materials Science and Technology</i> , 2022, 102, 213-223.	5.6	16
2	Defect formation, microstructure evolution, and mechanical properties of bobbin tool friction stir welded 2219-T8 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142414.	2.6	15
3	Failure mechanism of nano-structural interfacial layer in Mg matrix composites reinforced with Cf. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 154, 106780.	3.8	9
4	A rigid body dynamics simulation enhanced representative volume element builder for CNT/Al composite. <i>International Journal of Mechanics and Materials in Design</i> , 2022, 18, 407-422.	1.7	4
5	Cyclic deformation behavior and fatigue life modeling of CNT-reinforced heterogeneous aluminum-based nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142881.	2.6	9
6	Effects of natural aging on precipitation behavior and hardening ability of peak artificially aged SiCp/Al-Mg-Si composites. <i>Composites Part B: Engineering</i> , 2022, 236, 109851.	5.9	14
7	Static spheroidization and its effect on superplasticity of fine lamellae in nugget of a friction stir welded Ti-6Al-4V joint. <i>Journal of Materials Science and Technology</i> , 2022, 119, 1-10.	5.6	10
8	Effect of post weld artificial aging and water cooling on microstructure and mechanical properties of friction stir welded 2198-T8 Al-Li joints. <i>Journal of Materials Science and Technology</i> , 2022, 123, 92-112.	5.6	21
9	Effect of static annealing on superplastic behavior of a friction stir welded Ti-6Al-4V alloy joint and microstructural evolution during deformation. <i>Journal of Materials Science and Technology</i> , 2022, 130, 112-123.	5.6	10
10	Enhanced combination of mechanical properties and electrical conductivity of a hard state Cu-Cr-Zr alloy via one-step friction stir processing. <i>Journal of Materials Processing Technology</i> , 2021, 288, 116880.	3.1	27
11	Enhancing strength-ductility synergy of carbon nanotube/7055Al composite via a texture design by hot-rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 806, 140830.	2.6	16
12	Suppressed negative effects of natural aging by pre-aging in SiCp/6092Al composites. <i>Composites Part B: Engineering</i> , 2021, 212, 108730.	5.9	15
13	Deformation behavior and strengthening mechanisms in a CNT-reinforced bimodal-grained aluminum matrix nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 817, 141370.	2.6	23
14	Grain size effect on tensile deformation behaviors of pure aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141504.	2.6	35
15	A fast numerical method of introducing the strengthening effect of residual stress and strain to tensile behavior of metal matrix composites. <i>Journal of Materials Science and Technology</i> , 2021, 87, 167-175.	5.6	15
16	Improving the high-cycle fatigue strength of heterogeneous carbon nanotube/Al-Cu-Mg composites through grain size design in ductile-zones. <i>Composites Part B: Engineering</i> , 2021, 222, 109094.	5.9	16
17	Different fatigue behavior between tension-tension and tension-compression of carbon nanotubes reinforced 7055 Al composite with bimodal structure. <i>Carbon</i> , 2021, 184, 364-374.	5.4	13
18	Microstructural refinement mechanism and its effect on toughness in the nugget zone of high-strength pipeline steel by friction stir welding. <i>Journal of Materials Science and Technology</i> , 2021, 93, 221-231.	5.6	23

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19	Mechanical properties and thermal stability of 7055 Al alloy by minor Sc addition. <i>Rare Metals</i> , 2020, 39, 725-732.	3.6	16
20	High-Speed Friction Stir Welding of T6-Treated B4Cp/6061Al Composite. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 67-74.	1.5	2
21	Enhancement of the strength-ductility relationship for carbon nanotube/Al-Cu-Mg nanocomposites by material parameter optimisation. <i>Carbon</i> , 2020, 157, 602-613.	5.4	68
22	Influencing mechanism of pre-existing nanoscale Al ₅ Fe ₂ phase on Mg-Fe interface in friction stir spot welded Al-free ZK60-Q235 joint. <i>Journal of Materials Science and Technology</i> , 2020, 42, 220-228.	5.6	5
23	Microstructure and mechanical properties of (B ₄ C+Al ₂ O ₃)/Al composites designed for neutron absorbing materials with both structural and functional usages. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138840.	2.6	30
24	Enhancing high-temperature strength of (B ₄ C+Al ₂ O ₃)/Al designed for neutron absorbing materials by constructing lamellar structure. <i>Composites Part B: Engineering</i> , 2020, 183, 107674.	5.9	58
25	Enhancing strengthening efficiency of graphene nano-sheets in aluminum matrix composite by improving interface bonding. <i>Composites Part B: Engineering</i> , 2020, 199, 108268.	5.9	57
26	Hardness, quench sensitivity, and electrical conductivity of 7xxx Al alloys with high Zn concentrations. <i>Science China Technological Sciences</i> , 2020, 63, 953-959.	2.0	8
27	Atomic-scale quasi in-situ TEM observation on the redistribution of alloying element Cu in a B ₄ C/Al composite at the initial stage of corrosion. <i>Corrosion Science</i> , 2020, 174, 108808.	3.0	18
28	Improved high cycle fatigue property of ultrafine grained pure aluminum. <i>Materials Letters</i> , 2020, 277, 128289.	1.3	6
29	Introducing graphene (reduced graphene oxide) into Al matrix composites for enhanced high-temperature strength. <i>Composites Part B: Engineering</i> , 2020, 195, 108095.	5.9	43
30	Enhancing High-Temperature Strength and Thermal Stability of Al ₂ O ₃ /Al Composites by High-Temperature Pre-treatment of Ultrafine Al Powders. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 913-921.	1.5	7
31	Enhancing high-temperature strength of B ₄ C-6061Al neutron absorber material by in-situ Mg(Al)B ₂ . <i>Journal of Nuclear Materials</i> , 2019, 526, 151788.	1.3	23
32	Enhancing strength and ductility synergy through heterogeneous structure design in nanoscale Al ₂ O ₃ particulate reinforced Al composites. <i>Materials and Design</i> , 2019, 166, 107629.	3.3	94
33	Effect of welding speed and post-weld aging on the microstructure and mechanical properties of friction stir welded B ₄ Cp/6061Al-T6 composites. <i>Journal of Materials Processing Technology</i> , 2019, 273, 116242.	3.1	14
34	Mechanical and Damping Behavior of Age-Hardened and Non-age-hardened Al Alloys After Friction Stir Processing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1135-1141.	1.5	24
35	Thermally stable microstructures and mechanical properties of B ₄ C-Al composite with in-situ formed Mg(Al)B ₂ . <i>Journal of Materials Science and Technology</i> , 2019, 35, 1825-1830.	5.6	23
36	Improved cyclic softening behavior of ultrafine-grained Cu with high microstructural stability. <i>Scripta Materialia</i> , 2019, 166, 10-14.	2.6	19

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37	Corrosion onset associated with the reinforcement and secondary phases in B4C-6061Al neutron absorber material in H3BO3 solution. <i>Corrosion Science</i> , 2019, 153, 74-84.	3.0	17
38	Superplastic deformation behavior of lamellar microstructure in a hydrogenated friction stir welded Ti-6Al-4V joint. <i>Journal of Alloys and Compounds</i> , 2019, 787, 1320-1326.	2.8	16
39	Effects of Sc and Zr microalloying on the microstructure and mechanical properties of high Cu content 7xxx Al alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 1559-1569.	2.4	11
40	Effect of Sc addition, friction stir processing, and T6 treatment on the damping and mechanical properties of 7055 Al alloy. <i>Journal of Alloys and Compounds</i> , 2019, 772, 775-781.	2.8	35
41	Fabrication of high-quality Ti joint with ultrafine grains using submerged friction stirring technology and its microstructural evolution mechanism. <i>Acta Materialia</i> , 2019, 166, 371-385.	3.8	60
42	Microstructural evolution of aluminum alloy during friction stir welding under different tool rotation rates and cooling conditions. <i>Journal of Materials Science and Technology</i> , 2019, 35, 972-981.	5.6	70
43	Effects of welding speed on the multiscale residual stresses in friction stir welded metal matrix composites. <i>Journal of Materials Science and Technology</i> , 2019, 35, 824-832.	5.6	21
44	An approach to enhancement of Mg alloy joint performance by additional pass of friction stir processing. <i>Journal of Materials Processing Technology</i> , 2019, 264, 336-345.	3.1	23
45	High efficiency dispersal and strengthening of graphene reinforced aluminum alloy composites fabricated by powder metallurgy combined with friction stir processing. <i>Carbon</i> , 2018, 135, 215-223.	5.4	136
46	Influencing mechanism of Al-containing Zn coating on interfacial microstructure and mechanical properties of friction stir spot welded Mg-steel joint. <i>Materials Characterization</i> , 2018, 140, 197-206.	1.9	22
47	Effect of Processing Parameters on Plastic Flow and Defect Formation in Friction-Stir-Welded Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2673-2683.	1.1	22
48	Achieving ultra-high strength friction stir welded joints of high nitrogen stainless steel by forced water cooling. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2183-2188.	5.6	31
49	Simulation of anisotropic load transfer and stress distribution in sicp/Al composites subjected to tensile loading. <i>Mechanics of Materials</i> , 2018, 122, 96-103.	1.7	40
50	Abnormal deformation behavior and particle distribution during hot compression of fine-grained 14vol% SiCp/2014Al composite. <i>Journal of Alloys and Compounds</i> , 2018, 743, 87-98.	2.8	15
51	High damping capacity of Al alloys produced by friction stir processing. <i>Materials Characterization</i> , 2018, 136, 382-387.	1.9	24
52	Effects of pre-aging and minor Sc addition on the microstructure and mechanical properties of friction stir processed 7055 Al alloy. <i>Vacuum</i> , 2018, 149, 106-113.	1.6	29
53	Realising equal strength welding to parent metal in precipitation-hardened Al-Mg-Si alloy via low heat input friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 478-486.	1.5	16
54	Recent Advances in Friction Stir Welding/Processing of Aluminum Alloys: Microstructural Evolution and Mechanical Properties. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018, 43, 269-333.	6.8	223

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55	Achieving superior low temperature and high strain rate superplasticity in submerged friction stir welded Ti-6Al-4V alloy. <i>Science China Materials</i> , 2018, 61, 417-423.	3.5	10
56	Effects of friction stir processing and minor Sc addition on the microstructure, mechanical properties, and damping capacity of 7055 Al alloy. <i>Materials Characterization</i> , 2018, 135, 25-31.	1.9	34
57	Origin of Insignificant Strengthening Effect of CNTs in T6-Treated CNT/6061Al Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 134-142.	1.5	27
58	Material flow and void defect formation in friction stir welding of aluminium alloys. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 677-686.	1.5	37
59	A comparative research on bobbin tool and conventional friction stir welding of Al-Mg-Si alloy plates. <i>Materials Characterization</i> , 2018, 145, 20-28.	1.9	39
60	Hot deformation and activation energy of a CNT-reinforced aluminum matrix nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 695, 322-331.	2.6	40
61	Improved photocatalytic properties of ZnS/RGO nanocomposites prepared with GO solution in degrading methyl orange. <i>Nano Structures Nano Objects</i> , 2017, 10, 176-181.	1.9	24
62	Effect of scandium on microstructure and mechanical properties of high zinc concentration aluminum alloys. <i>Materials Characterization</i> , 2017, 127, 371-378.	1.9	30
63	Modelling of carbon nanotube dispersion and strengthening mechanisms in Al matrix composites prepared by high energy ball milling-powder metallurgy method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 94, 189-198.	3.8	88
64	Finite element and experimental analysis of machinability during machining of high-volume fraction SiCp/Al composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 1935-1944.	1.5	51
65	Influence of Zn coating on friction stir spot welded magnesium-aluminium joint. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 512-519.	1.5	15
66	Distribution of the microalloying element Cu in B4C-reinforced 6061Al composites. <i>Journal of Alloys and Compounds</i> , 2017, 728, 112-117.	2.8	28
67	Simultaneously improving mechanical properties and damping capacity of Al-Mg-Si alloy through friction stir processing. <i>Materials Characterization</i> , 2017, 131, 425-430.	1.9	48
68	Three-dimensional processing maps and microstructural evolution of a CNT-reinforced Al-Cu-Mg nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 425-437.	2.6	24
69	Effect of S ²⁺ donors on synthesizing and photocatalytic degrading properties of ZnS/RGO nanocomposite. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	9
70	Fabrication of Al-35Zn alloys with excellent damping capacity and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2017, 722, 138-144.	2.8	35
71	Enhanced multiscale modeling of macroscopic and microscopic residual stresses evolution during multi-thermo-mechanical processes. <i>Materials and Design</i> , 2017, 115, 364-378.	3.3	21
72	Effect of nanometer TiC coated diamond on the strength and thermal conductivity of diamond/Al composites. <i>Materials Chemistry and Physics</i> , 2016, 182, 256-262.	2.0	33

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73	Microstructural evolution and pitting corrosion behavior of friction stir welded joint of high nitrogen stainless steel. <i>Materials and Design</i> , 2016, 110, 802-810.	3.3	45
74	Microstructure and mechanical properties of friction stir processed Cu with an ideal ultrafine-grained structure. <i>Materials Characterization</i> , 2016, 121, 187-194.	1.9	41
75	Intrinsic high cycle fatigue behavior of ultrafine grained pure Cu with stable structure. <i>Science China Materials</i> , 2016, 59, 531-537.	3.5	32
76	Enhanced mechanical properties of medium carbon steel casting via friction stir processing and subsequent annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 153-158.	2.6	35
77	Achieving superior low-temperature superplasticity for lamellar microstructure in nugget of a friction stir welded Ti-6Al-4V joint. <i>Scripta Materialia</i> , 2016, 122, 26-30.	2.6	42
78	Superplastic Constitutive Equation Including Percentage of High-Angle Grain Boundaries as a Microstructural Parameter. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 546-559.	1.1	12
79	Fabrication of CNT/Al composites with low damage to CNTs by a novel solution-assisted wet mixing combined with powder metallurgy processing. <i>Materials and Design</i> , 2016, 97, 424-430.	3.3	106
80	Deformation and strengthening mechanisms of a carbon nanotube reinforced aluminum composite. <i>Carbon</i> , 2016, 104, 64-77.	5.4	156
81	Multiscale modeling of macroscopic and microscopic residual stresses in metal matrix composites using 3D realistic digital microstructure models. <i>Composite Structures</i> , 2016, 137, 18-32.	3.1	25
82	Pinless Friction Stir Spot Welding of Mg-3Al-1Zn Alloy with Zn Interlayer. <i>Journal of Materials Science and Technology</i> , 2016, 32, 76-88.	5.6	55
83	Effect of Interfacial Microstructure Evolution on Mechanical Properties and Fracture Behavior of Friction Stir-Welded Al-Cu Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3091-3103.	1.1	73
84	Influencing mechanism of Zn interlayer addition on hook defects of friction stir spot welded Mg-Al-Zn alloy joints. <i>Materials & Design</i> , 2015, 69, 163-169.	5.1	30
85	Interfacial reaction mechanism between matrix and reinforcement in B4C/6061Al composites. <i>Materials Chemistry and Physics</i> , 2015, 154, 107-117.	2.0	41
86	Multi-scale modeling of the macroscopic, elastic mismatch and thermal misfit stresses in metal matrix composites. <i>Composite Structures</i> , 2015, 125, 176-187.	3.1	19
87	Determination of macroscopic and microscopic residual stresses in friction stir welded metal matrix composites via neutron diffraction. <i>Acta Materialia</i> , 2015, 87, 161-173.	3.8	55
88	Study on distribution of long-period stacking ordered phase in Mg-Gd-Y-Zn-Zr alloy using friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 275-285.	2.6	27
89	Enhancing mechanical properties of friction stir welded 2219Al-T6 joints at high welding speed through water cooling and post-welding artificial ageing. <i>Materials Characterization</i> , 2015, 106, 255-265.	1.9	54
90	Influence of Zn interlayer addition on microstructure and mechanical properties of friction stir welded AZ31Mg alloy. <i>Journal of Materials Science</i> , 2015, 50, 4160-4173.	1.7	16

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91	Dynamic precipitation of Al-Zn alloy during rolling and accumulative roll bonding. Philosophical Magazine Letters, 2015, 95, 539-546.	0.5	23
92	Achieving superior superplasticity from lamellar microstructure of a nugget in a friction-stir-welded Ti-6Al-4V joint. Scripta Materialia, 2015, 98, 44-47.	2.6	35
93	Effects of heating rates on microstructure and superplastic behavior of friction stir processed 7075 aluminum alloy. Journal of Materials Science, 2015, 50, 1006-1015.	1.7	15
94	Effect of interfacial reaction on age-hardening ability of B4C/6061Al composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 445-453.	2.6	58
95	Analysis of carbon nanotube shortening and composite strengthening in carbon nanotube/aluminum composites fabricated by multi-pass friction stir processing. Carbon, 2014, 69, 264-274.	5.4	133
96	Achieving ultrafine-grained structure in a pure nickel by friction stir processing with additional cooling. Materials & Design, 2014, 56, 848-851.	5.1	39
97	Microstructural evolution of the thermomechanically affected zone in a Ti-6Al-4V friction stir welded joint. Scripta Materialia, 2014, 78-79, 17-20.	2.6	51
98	Effects of Processing Parameters on the Microstructures and Mechanical Properties of In Situ (Al ₃ Ti+Al ₂ O ₃)/Al Composites Fabricated by Hot Pressing and Subsequent Friction-Stir Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2776-2791.	1.1	19
99	Tensile properties and strain-hardening behaviour of friction stir welded SiCp/AA2009 composite joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 608, 1-10.	2.6	54
100	Low cycle fatigue properties of friction stir welded joints of a semi-solid processed AZ91D magnesium alloy. Materials & Design, 2014, 56, 1-8.	5.1	33
101	Strain-Controlled Low-Cycle Fatigue Behavior of Friction Stir-Welded AZ31 Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2101-2115.	1.1	18
102	Non-uniform deformation in a friction stir welded Mg-Al-Zn joint during stress fatigue. International Journal of Fatigue, 2014, 59, 9-13.	2.8	25
103	Effect of Carbon Nanotube Orientation on Mechanical Properties and Thermal Expansion Coefficient of Carbon Nanotube-Reinforced Aluminum Matrix Composites. Acta Metallurgica Sinica (English) Tj ETQq1 1 0.784314 rgBT / Overlock	1.4	10
104	Effects of Friction Stir Processing Parameters and In Situ Passes on Microstructure and Tensile Properties of Al-Si-Mg Casting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5318-5331.	1.1	30
105	Friction Stir Welding of Discontinuously Reinforced Aluminum Matrix Composites: A Review. Acta Metallurgica Sinica (English Letters), 2014, 27, 816-824.	1.5	39
106	Influence of water cooling on microstructure and mechanical properties of friction stir welded 2014Al-T6 joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 614, 6-15.	2.6	64
107	Microstructural evolution and mechanical properties of friction stir welded joint of Fe-Cr-Mn-Mo-N austenite stainless steel. Materials & Design, 2014, 64, 355-359.	5.1	52
108	Friction stir welding of as-extruded Mg-Al-Zn alloy with higher Al content. Part II: Influence of precipitates. Materials Characterization, 2014, 96, 135-141.	1.9	20

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109	Friction stir welding of as-extruded Mg-Al-Zn alloy with higher Al content. Part I: Formation of banded and line structures. <i>Materials Characterization</i> , 2014, 96, 142-150.	1.9	23
110	Homogenization of the average thermo-elastoplastic properties of particle reinforced metal matrix composites: The minimum representative volume element size. <i>Composite Structures</i> , 2014, 113, 459-468.	3.1	38
111	Hardness recovery mechanism in the heat-affected zone during long-term natural aging and its influence on the mechanical properties and fracture behavior of friction stir welded 2024Al-T351 joints. <i>Acta Materialia</i> , 2014, 73, 227-239.	3.8	95
112	Mechanically activated effect of friction stir processing in Al-Ti reaction. <i>Materials Chemistry and Physics</i> , 2013, 139, 596-602.	2.0	29
113	Effects of Rotation Rates on Microstructure, Mechanical Properties, and Fracture Behavior of Friction Stir-Welded (FSW) AZ31 Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 517-530.	1.1	93
114	Developing high-performance aluminum matrix composites with directionally aligned carbon nanotubes by combining friction stir processing and subsequent rolling. <i>Carbon</i> , 2013, 62, 35-42.	5.4	131
115	In situ formation of various intermetallic particles in Al-Ti-X(Cu, Mg) systems during friction stir processing. <i>Intermetallics</i> , 2013, 40, 36-44.	1.8	20
116	Exceptional high-strain-rate superplasticity in Mg-Gd-Y-Zn-Zr alloy with long-period stacking ordered phase. <i>Scripta Materialia</i> , 2013, 69, 801-804.	2.6	67
117	Effect of Segregation of Secondary Phase Particles and α -Line on Tensile Fracture Behavior of Friction Stir-Welded 2024Al-T351 Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4081-4097.	1.1	36
118	Formation of long-period stacking ordered phase only within grains in Mg-Gd-Y-Zn-Zr casting by friction stir processing. <i>Journal of Alloys and Compounds</i> , 2013, 581, 585-589.	2.8	49
119	Influence of microstructural evolution on tensile properties of friction stir welded joint of rolled SiCp/AA2009-T351 sheet. <i>Materials & Design</i> , 2013, 51, 199-205.	5.1	57
120	Achieving Large-area Bulk Ultrafine Grained Cu via Submerged Multiple-pass Friction Stir Processing. <i>Journal of Materials Science and Technology</i> , 2013, 29, 1111-1115.	5.6	54
121	Elevated temperature tensile properties and thermal expansion of CNT/2009Al composites. <i>Composites Science and Technology</i> , 2012, 72, 1826-1833.	3.8	65
122	High Strain Rate Superplasticity in a Micro-grained Al-Mg-Sc Alloy with Predominant High Angle Grain Boundaries. <i>Journal of Materials Science and Technology</i> , 2012, 28, 1025-1030.	5.6	61
123	Reactive mechanism and mechanical properties of in situ composites fabricated from an Al-TiO ₂ system by friction stir processing. <i>Acta Materialia</i> , 2012, 60, 7090-7103.	3.8	144
124	Influence of Process Parameters on Microstructure and Mechanical Properties of Friction-Stir-Processed Mg-Gd-Y-Zr Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2094-2109.	1.1	40
125	Singly dispersed carbon nanotube/aluminum composites fabricated by powder metallurgy combined with friction stir processing. <i>Carbon</i> , 2012, 50, 1843-1852.	5.4	255
126	Evolution of interfacial nanostructures and stress states in Mg matrix composites reinforced with coated continuous carbon fibers. <i>Composites Science and Technology</i> , 2012, 72, 152-158.	3.8	61

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127	Microstructural evolution and mechanical properties of ultrafine grained Al ₃ Ti/Al-5.5Cu composites produced via hot pressing and subsequent friction stir processing. <i>Materials Chemistry and Physics</i> , 2012, 134, 294-301.	2.0	36
128	High tensile ductility via enhanced strain hardening in ultrafine-grained Cu. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 106-110.	2.6	77
129	Microstructural evolution in recrystallized and unrecrystallized Al-Mg-Sc alloys during superplastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 547, 55-63.	2.6	65
130	Effect of welding parameters on microstructure and mechanical properties of friction stir welded 2219Al-T6 joints. <i>Journal of Materials Science</i> , 2012, 47, 4075-4086.	1.7	58
131	Realization of exceptionally high elongation at high strain rate in a friction stir processed Al-Zn-Mg-Cu alloy with the presence of liquid phase. <i>Scripta Materialia</i> , 2011, 64, 572-575.	2.6	39
132	Achieving friction stir welded pure copper joints with nearly equal strength to the parent metal via additional rapid cooling. <i>Scripta Materialia</i> , 2011, 64, 1051-1054.	2.6	98
133	Formation mechanism of in situ Al ₃ Ti in Al matrix during hot pressing and subsequent friction stir processing. <i>Materials Chemistry and Physics</i> , 2011, 130, 1109-1117.	2.0	77
134	Effect of Alclad Layer on Material Flow and Defect Formation in Friction-Stir-Welded 2024 Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 1717-1726.	1.1	52
135	Effect of Multiple-Pass Friction Stir Processing Overlapping on Microstructure and Mechanical Properties of As-Cast NiAl Bronze. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2125-2135.	1.1	26
136	A Transient Thermal Model for Friction Stir Weld. Part I: The Model. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3218-3228.	1.1	67
137	A Transient Thermal Model for Friction Stir Weld. Part II: Effects of Weld Conditions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3229-3239.	1.1	39
138	An enhanced FEM model for particle size dependent flow strengthening and interface damage in particle reinforced metal matrix composites. <i>Composites Science and Technology</i> , 2011, 71, 39-45.	3.8	115
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