

Daolun Chen

List of Publications by Year in descending order

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351
papers

15,830
citations

19608

61
h-index

26548

107
g-index

362
all docs

362
docs citations

362
times ranked

7044
citing authors

#	ARTICLE	IF	CITATIONS
1	Consideration of Orowan strengthening effect in particulate-reinforced metal matrix nanocomposites: A model for predicting their yield strength. <i>Scripta Materialia</i> , 2006, 54, 1321-1326.	2.6	1,098
2	Latest research advances on magnesium and magnesium alloys worldwide. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 1-41.	5.5	852
3	Contribution of Orowan strengthening effect in particulate-reinforced metal matrix nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 148-152.	2.6	592
4	Research advances in magnesium and magnesium alloys worldwide in 2020. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 705-747.	5.5	499
5	Strain hardening behavior of a friction stir welded magnesium alloy. <i>Scripta Materialia</i> , 2007, 57, 1004-1007.	2.6	351
6	Microstructure and tensile properties of friction stir welded AZ31B magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 472, 179-186.	2.6	307
7	Low cycle fatigue properties of an extruded AZ31 magnesium alloy. <i>International Journal of Fatigue</i> , 2009, 31, 726-735.	2.8	234
8	Research advances of magnesium and magnesium alloys worldwide in 2021. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 863-898.	5.5	224
9	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
10	Microstructure and fracture characteristics of spot-welded DP600 steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 485, 334-346.	2.6	178
11	Strain controlled cyclic deformation behavior of an extruded magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 496, 106-113.	2.6	161
12	Microstructure and mechanical properties of laser welded dissimilar DP600/DP980 dual-phase steel joints. <i>Journal of Alloys and Compounds</i> , 2011, 509, 982-989.	2.8	160
13	Deformation and strengthening mechanisms of a carbon nanotube reinforced aluminum composite. <i>Carbon</i> , 2016, 104, 64-77.	5.4	156
14	A new grain orientation spread approach to analyze the dynamic recrystallization behavior of a cast-homogenized Mg-Zn-Zr alloy using electron backscattered diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 709, 285-289.	2.6	154
15	Microstructure and mechanical properties of laser welded DP600 steel joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1215-1222.	2.6	153
16	Effect of strain ratio and strain rate on low cycle fatigue behavior of AZ31 wrought magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 517, 334-343.	2.6	141
17	Tensile properties of a friction stir welded magnesium alloy: Effect of pin tool thread orientation and weld pitch. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 6064-6075.	2.6	140
18	Strain-Controlled Low-Cycle Fatigue Properties of a Newly Developed Extruded Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008, 39, 3014-3026.	1.1	134

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19	Shearing of Ti_3Al precipitates and formation of planar slip bands in Inconel 718 during cyclic deformation. <i>Scripta Materialia</i> , 2005, 52, 603-607.	2.6	117
20	Dynamic recrystallization of titanium: Effect of pre-activated twinning at cryogenic temperature. <i>Acta Materialia</i> , 2018, 154, 311-324.	3.8	117
21	Hot deformation behavior of Ti-6Al-4V alloy: Effect of initial microstructure. <i>Journal of Alloys and Compounds</i> , 2017, 718, 170-181.	2.8	116
22	Detwinning and strain hardening of an extruded magnesium alloy during compression. <i>Scripta Materialia</i> , 2012, 67, 165-168.	2.6	113
23	Tensile and fatigue properties of a cast aluminum alloy with Ti, Zr and V additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8128-8138.	2.6	112
24	Tensile and fatigue properties of fiber laser welded high strength low alloy and DP980 dual-phase steel joints. <i>Materials & Design</i> , 2013, 43, 373-383.	5.1	112
25	Microstructure and Cyclic Deformation Behavior of a Friction-Stir-Welded 7075 Al Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 957-971.	1.1	111
26	Effect of heat treatment on mechanical properties of Ti-6Al-4V ELI alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 506, 117-124.	2.6	109
27	Microstructural evolution and high-temperature oxidation mechanisms of a titanium aluminide based alloy. <i>Acta Materialia</i> , 2018, 148, 300-310.	3.8	109
28	Influence of ultrasonic spot welding on microstructure in a magnesium alloy. <i>Scripta Materialia</i> , 2011, 65, 911-914.	2.6	106
29	Polishing-assisted galvanic corrosion in the dissimilar friction stir welded joint of AZ31 magnesium alloy to 2024 aluminum alloy. <i>Materials Characterization</i> , 2009, 60, 370-376.	1.9	105
30	Tensile properties and strain-hardening behavior of double-sided arc welded and friction stir welded AZ31B magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2951-2961.	2.6	105
31	Effect of annealing on interface microstructures and tensile properties of rolled Al/Mg/Al tri-layer clad sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 587, 344-351.	2.6	103
32	Effect of zinc interlayer on ultrasonic spot welded aluminum-to-copper joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 277-286.	2.6	103
33	Lap shear strength and fatigue behavior of friction stir spot welded dissimilar magnesium-to-aluminum joints with adhesive. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 562, 53-60.	2.6	97
34	Improvements of strength and ductility in aluminum alloy joints via rapid cooling during friction stir welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 548, 89-98.	2.6	96
35	Strengthening mechanisms in magnesium alloys containing ternary I, W and LPSO phases. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1110-1118.	5.6	95
36	Lap shear strength and fatigue life of friction stir spot welded AZ31 magnesium and 5754 aluminum alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 500-509.	2.6	94

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37	A model for predicting the particle size dependence of the low cycle fatigue life in discontinuously reinforced MMCs. <i>Scripta Materialia</i> , 2004, 51, 863-867.	2.6	93
38	Mechanical properties of crossed-lamellar structures in biological shells: A review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 74, 54-71.	1.5	87
39	Strain Hardening and Strain-Rate Sensitivity of an Extruded Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2008, 17, 894-901.	1.2	85
40	A Unified Model for the Prediction of Yield Strength in Particulate-Reinforced Metal Matrix Nanocomposites. <i>Materials</i> , 2015, 8, 5138-5153.	1.3	85
41	Microstructure and Low-Cycle Fatigue of a Friction-Stir-Welded 6061 Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 2626-2641.	1.1	84
42	Microstructure and mechanical properties of dissimilar welded Mg-Al joints by ultrasonic spot welding technique. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 202-206.	1.5	84
43	Microstructure and fatigue performance of single and multiple linear fiber laser welded DP980 dual-phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 553, 51-58.	2.6	84
44	Friction Stir Welded AZ31 Magnesium Alloy: Microstructure, Texture, and Tensile Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 323-336.	1.1	84
45	Microstructure and fatigue properties of fiber laser welded dissimilar joints between high strength low alloy and dual-phase steels. <i>Materials & Design</i> , 2013, 51, 665-675.	5.1	82
46	Low cycle fatigue of a rare-earth containing extruded magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 575, 65-73.	2.6	80
47	Improving weld strength of magnesium to aluminium dissimilar joints via tin interlayer during ultrasonic spot welding. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 342-347.	1.5	76
48	Microstructure and mechanical properties of ultrasonic spot welded copper-to-magnesium alloy joints. <i>Materials and Design</i> , 2015, 84, 261-269.	3.3	75
49	Hot deformation and processing map of an as-extruded Mg-Zn-Mn-Y alloy containing I and W phases. <i>Materials and Design</i> , 2015, 87, 245-255.	3.3	74
50	Ageing characteristics and high-temperature tensile properties of Al-Si-Cu-Mg alloys with micro-additions of Cr, Ti, V and Zr. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 652, 353-364.	2.6	73
51	Microstructure and Mechanical Properties of Fiber-Laser-Welded and Diode-Laser-Welded AZ31 Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 1974-1989.	1.1	70
52	Effect of rare earth elements on deformation behavior of an extruded Mg-10Gd-3Y-0.5Zr alloy during compression. <i>Materials & Design</i> , 2013, 46, 411-418.	5.1	70
53	Dependence of the distribution of deformation twins on strain amplitudes in an extruded magnesium alloy after cyclic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 519, 38-45.	2.6	69
54	Exfoliation corrosion of friction stir welded dissimilar 2024-to-7075 aluminum alloys. <i>Materials Characterization</i> , 2019, 147, 93-100.	1.9	69

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55	Relationship between fractal dimension and fatigue threshold value in dual-phase steels. <i>Scripta Metallurgica</i> , 1988, 22, 827-832.	1.2	68
56	Microstructure and tensile properties of thixomolded magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2010, 496, 140-148.	2.8	68
57	Microstructure and mechanical properties of weld-bonded and resistance spot welded magnesium-to-steel dissimilar joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 537, 11-24.	2.6	68
58	Characterization of hot deformation behavior of an extruded Mg-Zn-Mn-Y alloy containing LPSO phase. <i>Journal of Alloys and Compounds</i> , 2015, 644, 814-823.	2.8	68
59	Fatigue behavior of tailor (laser)-welded blanks for automotive applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 420, 199-207.	2.6	64
60	Strategies for enhancing the room-temperature stretch formability of magnesium alloy sheets: a review. <i>Journal of Materials Science</i> , 2021, 56, 12965.	1.7	64
61	Effect of boron on fatigue crack growth behavior in superalloy IN 718 at RT and 650°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 428, 1-11.	2.6	63
62	Tensile Properties and Work Hardening Behavior of Laser-Welded Dual-Phase Steel Joints. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 222-230.	1.2	62
63	Effects of aluminum content and strain rate on strain hardening behavior of cast magnesium alloys during compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 594, 235-245.	2.6	62
64	Dependence of compressive deformation on pre-strain and loading direction in an extruded magnesium alloy: Texture, twinning and de-twinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 596, 134-144.	2.6	62
65	A Critical Review of Mg-Zn-Y Series Alloys Containing I, W, and LPSO Phases. <i>Advanced Engineering Materials</i> , 2016, 18, 1983-2002.	1.6	62
66	Ultrasonic spot welded 6111-T4 aluminum alloy to galvanized high-strength low-alloy steel: Microstructure and mechanical properties. <i>Materials and Design</i> , 2017, 113, 284-296.	3.3	62
67	Toughening mechanisms in iron-containing hydroxyapatite/titanium composites. <i>Biomaterials</i> , 2010, 31, 1493-1501.	5.7	61
68	Tensile properties of AZ61 magnesium alloy produced by multi-pass friction stir processing: Effect of sample orientation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 398-405.	2.6	61
69	Liquid metal embrittlement in laser beam welding of Zn-coated 22MnB5 steel. <i>Materials and Design</i> , 2018, 155, 375-383.	3.3	61
70	Cyclic deformation behavior of a cast aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 516, 31-41.	2.6	60
71	Welding behaviour, microstructure and mechanical properties of dissimilar resistance spot welds between galvanized HSLA350 and DP600 steels. <i>Science and Technology of Welding and Joining</i> , 2009, 14, 616-625.	1.5	58
72	Ultrasonic Spot Welding of Aluminum to High-Strength Low-Alloy Steel: Microstructure, Tensile and Fatigue Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 2055-2066.	1.1	58

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73	Effect of welding energy on microstructure and strength of ultrasonic spot welded dissimilar joints of aluminum to steel sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 668, 73-85.	2.6	58
74	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
75	Microstructure and fatigue properties of Mg-to-steel dissimilar resistance spot welds. <i>Materials & Design</i> , 2013, 45, 336-342.	5.1	57
76	Formation of zinc interlayer texture during dissimilar ultrasonic spot welding of magnesium and high strength low alloy steel. <i>Materials & Design</i> , 2013, 45, 236-240.	5.1	57
77	Cyclic deformation and twinning in a semi-solid processed AZ91D magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 208-219.	2.6	56
78	Ultrasonic spot welded AZ31 magnesium alloy: Microstructure, texture, and lap shear strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 569, 78-85.	2.6	56
79	Tensile and fatigue properties of electron beam welded dissimilar joints between Ti-6Al-4V and BT9 titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 584, 47-56.	2.6	55
80	Ultrasonic spot welding of Al/Mg/Al tri-layered clad sheets. <i>Materials & Design</i> , 2014, 62, 344-351.	5.1	55
81	Carbon Nanotube-Reinforced Aluminum Matrix Composites. <i>Advanced Engineering Materials</i> , 2020, 22, 1901176.	1.6	55
82	Expulsion monitoring in spot welded advanced high strength automotive steels. <i>Science and Technology of Welding and Joining</i> , 2006, 11, 480-487.	1.5	54
83	Tensile properties and strain-hardening behaviour of friction stir welded SiCp/AA2009 composite joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 608, 1-10.	2.6	54
84	Cyclic deformation behavior of a super-vacuum die cast magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 546, 72-81.	2.6	52
85	Tensile and compressive deformation behavior of the Al-Si-Cu-Mg cast alloy with additions of Zr, V and Ti. <i>Materials & Design</i> , 2014, 59, 352-358.	5.1	52
86	Thermal stability of (AlSi) (ZrVTi) intermetallic phases in the Al-Si-Cu-Mg cast alloy with additions of Ti, V, and Zr. <i>Thermochimica Acta</i> , 2014, 595, 11-16.	1.2	52
87	Improving High-Temperature Tensile and Low-Cycle Fatigue Behavior of Al-Si-Cu-Mg Alloys Through Micro-additions of Ti, V, and Zr. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3063-3078.	1.1	52
88	Residual stresses and high cycle fatigue properties of friction stir welded SiCp/AA2009 composites. <i>International Journal of Fatigue</i> , 2013, 55, 64-73.	2.8	51
89	Strain-controlled fatigue properties of dissimilar welded joints between Ti-6Al-4V and Ti17 alloys. <i>Materials & Design</i> , 2013, 49, 716-727.	5.1	51
90	Effect of Zr, V and Ti on hot compression behavior of the Al-Si cast alloy for powertrain applications. <i>Journal of Alloys and Compounds</i> , 2014, 615, 1019-1031.	2.8	51

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91	Microstructure and mechanical properties of ultrasonic spot welded Al/Ti alloy joints. <i>Materials & Design</i> , 2015, 78, 33-41.	5.1	51
92	Cyclic deformation mechanisms of precipitation-hardened Inconel 718 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 369-372.	2.6	50
93	Monotonic and cyclic deformation behavior of the Al-Si-Cu-Mg cast alloy with micro-additions of Ti, V and Zr. <i>International Journal of Fatigue</i> , 2015, 70, 383-394.	2.8	50
94	Effect of Mn and heat treatment on improvements in static strength and low-cycle fatigue life of an Al-Si-Cu-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 657, 441-452.	2.6	50
95	Enhancing mechanical properties of AZ61 magnesium alloy via friction stir processing: Effect of processing parameters. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 797, 139945.	2.6	49
96	Microstructure and mechanical properties of Mg-to-Al dissimilar welded joints with an Ag interlayer using ultrasonic spot welding. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 552-563.	5.5	49
97	Fatigue properties of laser welded dual-phase steel joints. <i>Procedia Engineering</i> , 2010, 2, 835-843.	1.2	48
98	Texture transformation in an extruded magnesium alloy under pressure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 582, 63-67.	2.6	48
99	Work hardening and texture during compression deformation of the Al-Si-Cu-Mg alloy modified with V, Zr and Ti. <i>Journal of Alloys and Compounds</i> , 2014, 593, 290-299.	2.8	48
100	Texture evolution of AZ31 magnesium alloy sheets during warm rolling. <i>Journal of Alloys and Compounds</i> , 2015, 645, 70-77.	2.8	48
101	De-twinning and Texture Change in an Extruded AM30 Magnesium Alloy during Compression along Normal Direction. <i>Journal of Materials Science and Technology</i> , 2015, 31, 264-268.	5.6	47
102	Liquid metal embrittlement in laser lap joining of TWIP and medium-manganese TRIP steel: The role of stress and grain boundaries. <i>Materials Characterization</i> , 2018, 145, 627-633.	1.9	47
103	Microstructure and mechanical properties of Al-Si cast alloy with additions of Zr-V-Ti. <i>Materials and Design</i> , 2015, 83, 801-812.	3.3	46
104	Ultrasonic spot welding of rare-earth containing ZEK100 magnesium alloy to 5754 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 666, 139-148.	2.6	46
105	Contribution of the cyclic loading portion below the opening load to fatigue crack growth. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 208, 181-187.	2.6	45
106	Strain-controlled low cycle fatigue properties of a rare-earth containing ZEK100 magnesium alloy. <i>Materials & Design</i> , 2015, 67, 436-447.	5.1	44
107	Influence of aluminum content on twinning and texture development of cast Mg-Al-Zn alloy during compression. <i>Journal of Alloys and Compounds</i> , 2015, 623, 15-23.	2.8	44
108	Single and double twin nucleation, growth, and interaction in an extruded magnesium alloy. <i>Materials and Design</i> , 2017, 119, 376-396.	3.3	44

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109	Twin-twin interactions and contraction twin formation in an extruded magnesium alloy subjected to an alteration of compressive direction. <i>Journal of Alloys and Compounds</i> , 2018, 737, 549-560.	2.8	44
110	Fiber Laser Welded AZ31 Magnesium Alloy: The Effect of Welding Speed on Microstructure and Mechanical Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2133-2147.	1.1	41
111	Microstructure and Fatigue Properties of a Friction Stir Lap Welded Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3732-3746.	1.1	41
112	Characterization of ultrasonic spot welded joints of Mg-to-galvanized and ungalvanized steel with a tin interlayer. <i>Journal of Materials Processing Technology</i> , 2014, 214, 811-817.	3.1	41
113	Effect of strain rate and temperature on strain hardening behavior of a dissimilar joint between Ti-6Al-4V and Ti17 alloys. <i>Materials & Design</i> , 2014, 56, 174-184.	5.1	41
114	Ageing characteristics and high-temperature tensile properties of Al-Si-Cu-Mg alloys with micro-additions of Mo and Mn. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 726-736.	2.6	41
115	Influence of yttrium content on phase formation and strain hardening behavior of Mg-Zn-Mn magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2014, 615, 424-432.	2.8	40
116	Twin Growth and Texture Evolution in an Extruded AM30 Magnesium Alloy During Compression. <i>Journal of Materials Science and Technology</i> , 2014, 30, 884-887.	5.6	40
117	Tensile and fatigue behavior of electron beam welded dissimilar joints of Ti-6Al-4V and IMI834 titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 146-152.	2.6	40
118	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
119	Modeling dynamic recrystallization during hot deformation of a cast-homogenized Mg-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 720, 180-188.	2.6	40
120	Fatigue crack growth behavior of X2095 Al-Li alloy. <i>International Journal of Fatigue</i> , 1999, 21, 1079-1086.	2.8	39
121	Low cycle fatigue behavior of a semi-solid processed AM60B magnesium alloy. <i>Materials & Design</i> , 2013, 49, 456-464.	5.1	39
122	Effect of Ti on the wear behavior of AlCoCrFeNi high-entropy alloy during unidirectional and bi-directional sliding wear processes. <i>Wear</i> , 2021, 476, 203650.	1.5	38
123	Low-cycle fatigue of a friction stir welded 2219-T62 aluminum alloy at different welding parameters and cooling conditions. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 209-218.	1.5	37
124	Effects of concavity on tensile and fatigue properties in fibre laser welding of automotive steels. <i>Science and Technology of Welding and Joining</i> , 2014, 19, 60-68.	1.5	37
125	Bimodal grain microstructure development during hot compression of a cast-homogenized Mg-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 724, 421-430.	2.6	37
126	Three-dimensional fractal analysis of fracture surfaces in a titanium alloy for biomedical applications. <i>Scripta Materialia</i> , 2008, 59, 391-394.	2.6	36

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127	Hot Deformation and Work Hardening Behavior of an Extruded Mg–Zn–Mn–Y Alloy. <i>Journal of Materials Science and Technology</i> , 2015, 31, 1161-1170.	5.6	36
128	A new geometric factor formula for a center cracked plate tensile specimen of finite width. <i>International Journal of Fracture</i> , 1992, 55, R3-R8.	1.1	35
129	Influence of pre-strain on de-twinning activity in an extruded AM30 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 605, 73-79.	2.6	35
130	Effect of pin tool thread orientation on fatigue strength of friction stir welded AZ31B-H24 Mg butt joints. <i>Procedia Engineering</i> , 2010, 2, 825-833.	1.2	34
131	Influence of pre-deformation and subsequent annealing on strain hardening and anisotropy of AM30 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2014, 611, 341-350.	2.8	34
132	Microstructure and Mechanical Properties of an Ultrasonic Spot Welded Aluminum Alloy: The Effect of Welding Energy. <i>Materials</i> , 2017, 10, 449.	1.3	34
133	Multi-pass submerged friction stir processing of AZ61 magnesium alloy: strengthening mechanisms and fracture behavior. <i>Journal of Materials Science</i> , 2019, 54, 8640-8654.	1.7	34
134	A model for crack closure. <i>Engineering Fracture Mechanics</i> , 1996, 53, 493-509.	2.0	33
135	Fatigue of rare-earth containing magnesium alloys: a review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2014, 37, 831-853.	1.7	33
136	Low cycle fatigue properties of friction stir welded joints of a semi-solid processed AZ91D magnesium alloy. <i>Materials & Design</i> , 2014, 56, 1-8.	5.1	33
137	Low cycle fatigue of an extruded Mg–3Nd–0.2Zn–0.5Zr magnesium alloy. <i>Materials & Design</i> , 2014, 64, 63-73.	5.1	32
138	Microstructure, tensile and fatigue properties of ultrasonic spot welded aluminum to galvanized high-strength-low-alloy and low-carbon steel sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 323-336.	2.6	32
139	Effect of strain ratio on cyclic deformation behavior of a rare-earth containing extruded magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 588, 250-259.	2.6	31
140	Heat Treatment Development for a Rapidly Solidified Heat Resistant Cast Al-Si Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 1839-1847.	1.2	31
141	Tensile properties of fiber laser welded joints of high strength low alloy and dual-phase steels at warm and low temperatures. <i>Materials & Design</i> , 2014, 56, 193-199.	5.1	31
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