Wen Wang

List of Publications by Year
in descending order

32 papers	746 citations	516710 16 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	482 citing authors

#	Article	IF	Citations
1	Microstructure, Mechanical Properties, and Corrosion Behavior of Mgâ€“Alâ€“Ca Alloy Prepared by Friction Stir Processing. Acta Metallurgica Sinica (English Letters), 2022, 35, 703-713.	2.9	10
2	Effects of interlayer metal on microstructures and mechanical properties of friction stir lap welded dissimilar joints of magnesium and aluminum alloys. Journal of Materials Processing Technology, 2022, 299, 117362.	6.3	13
3	Effect of multi-pass friction stir processing on the microstructure evolution and corrosion behavior of ZrO2/AZ31 magnesium matrix composite. Journal of Materials Research and Technology, 2022, 18, 1166-1179.	5.8	49
4	Modification of cold-sprayed high-entropy alloy particles reinforced aluminum matrix composites via friction stir processing. Journal of Alloys and Compounds, 2022, 907, 164426.	5.5	26
5	Effect of the microstructure on the corrosion behavior of dissimilar friction stir-welded 304 austenitic stainless steel and Q235 low-carbon steel joints. Materials Research Express, 2022, 9, 076508.	1.6	1
6	Microstructure and mechanical properties of magnesiumâ€“lithium alloy prepared by friction stir processing. Rare Metals, 2021, 40, 2552-2559.	7.1	16
7	Microstructure and nanomechanical behavior of friction stir welded joint of 7055 aluminum alloy. Journal of Manufacturing Processes, 2021, 61, 311-321.	5.9	18
8	Intermetallic compounds: Formation mechanism and effects on the mechanical properties of friction stir lap welded dissimilar joints of magnesium and aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140554.	5.6	30
9	Mg/ZrO2 Metal Matrix Nanocomposites Fabricated by Friction Stir Processing: Microstructure, Mechanical Properties, and Corrosion Behavior. Frontiers in Bioengineering and Biotechnology, 2021, 9, 605171.	4.1	26
10	Experimental investigation on fatigue crack initiation and propagation mechanism of friction stir lap welded dissimilar joints of magnesium and aluminum alloys. Materials Characterization, 2021, 177, 111176.	4.4	7
11	Enhanced Mechanical Properties of Pure Zirconium via Friction Stir Processing. Acta Metallurgica Sinica (English Letters), 2020, 33, 147-153.	2.9	7
12	Microstructural evolution and corrosion behavior of friction stir processed fineâ€grained AZ80 Mg alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 93-108.	1.5	10
13	Friction Stir Processing of Magnesium Alloys: A Review. Acta Metallurgica Sinica (English Letters), 2020, 33, 43-57.	2.9	138
14	Friction stir processing induced elctrochemical performance improvement of commercial Al for Al-air battery. Electrochimica Acta, 2020, 354, 136635.	5.2	25
15	Microstructure and Mechanical Properties of Low-Carbon Q235 Steel Welded Using Friction Stir Welding. Acta Metallurgica Sinica (English Letters), 2020, 33, 1556-1570.	2.9	13
16	Microstructure and mechanical properties of friction stir lap welded dissimilar zirconium-steel joint. Journal of Materials Research and Technology, 2020, 9, 15087-15093.	5.8	7
17	Microstructure and mechanical properties of friction stir welded joint of TRIP steel. Journal of Manufacturing Processes, 2020, 56, 623-634.	5.9	12
18	Effect of the rotation rate on the low-cycle fatigue behavior of friction-stir welded AZ31 magnesium alloy. Engineering Fracture Mechanics, 2020, 228, 106925.	4.3	23

#	Article	IF	Citations
19	Superplastic deformation behavior of fine-grained AZ80 magnesium alloy prepared by friction stir processing. Journal of Materials Research and Technology, 2020, 9, 5252-5263.	5.8	33
20	Relationship between microstructure and mechanical properties of friction stir processed AISI 316L steel produced by selective laser melting. Materials Characterization, 2020, 163, 110283.	4.4	29
21	Microstructure and mechanical properties of dissimilar friction stir welded type 304 austenitic stainless steel to Q235 low carbon steel. Materials Characterization, 2019, 155, 109803.	4.4	49
22	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of AlSi10Mg Aluminum Alloy Produced by Selective Laser Melting. Jom, 2019, 71, 1737-1747.	1.9	27
23	Mechanical and corrosion properties of low-carbon steel prepared by friction stir processing. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 202-209.	4.9	12
24	Microstructure and mechanical properties of AE42 rare earth-containing magnesium alloy prepared by friction stir processing. Materials Characterization, 2019, 150, 52-61.	4.4	34
25	Corrosion properties of low carbon steel prepared by submerged friction stir processing. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1077-1083.	1.5	1
26	Corrosion fatigue behavior of friction stir processed interstitial free steel. Journal of Materials Science and Technology, 2018, 34, 148-156.	10.7	31
27	Effects of grain size and texture on stress corrosion cracking of friction stir processed AZ80 magnesium alloy. Engineering Failure Analysis, 2018, 92, 392-404.	4.0	45
28	A modified parallel constitutive model for elevated temperature flow behavior of Ti-6Al-4V alloy based on multiple regression. International Journal of Materials Research, 2017, 108, 527-541.	0.3	9
29	Effect of Travel Speed on the Stress Corrosion Behavior of Friction Stir Welded 2024-T4 Aluminum Alloy. Journal of Materials Engineering and Performance, 2016, 25, 1820-1828.	2.5	10
30	Effects of Ni2+ on aluminum hydroxide scale formation and transformation on a simulated drinking water distribution system. Chemosphere, 2014, 107, 211-217.	8.2	11
31	Underwater friction stir welding of ultrafine grained 2017 aluminum alloy. Journal of Central South University, 2012, 19, 2081-2085.	3.0	24
32	Effect of heterogeneous Ti layers on mechanical properties of Cu/Ti laminated sheets prepared by accumulative roll bonding. Physica Status Solidi (A) Applications and Materials Science, 0, , .	1.8	0