

# Wen Wang

## List of Publications by Year in descending order

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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	Friction Stir Processing of Magnesium Alloys: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 43-57.	2.9	138
2	Microstructure and mechanical properties of dissimilar friction stir welded type 304 austenitic stainless steel to Q235 low carbon steel. <i>Materials Characterization</i> , 2019, 155, 109803.	4.4	49
3	Effect of multi-pass friction stir processing on the microstructure evolution and corrosion behavior of ZrO <sub>2</sub> /AZ31 magnesium matrix composite. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1166-1179.	5.8	49
4	Effects of grain size and texture on stress corrosion cracking of friction stir processed AZ80 magnesium alloy. <i>Engineering Failure Analysis</i> , 2018, 92, 392-404.	4.0	45
5	Microstructure and mechanical properties of AE42 rare earth-containing magnesium alloy prepared by friction stir processing. <i>Materials Characterization</i> , 2019, 150, 52-61.	4.4	34
6	Superplastic deformation behavior of fine-grained AZ80 magnesium alloy prepared by friction stir processing. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5252-5263.	5.8	33
7	Corrosion fatigue behavior of friction stir processed interstitial free steel. <i>Journal of Materials Science and Technology</i> , 2018, 34, 148-156.	10.7	31
8	Intermetallic compounds: Formation mechanism and effects on the mechanical properties of friction stir lap welded dissimilar joints of magnesium and aluminum alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140554.	5.6	30
9	Relationship between microstructure and mechanical properties of friction stir processed AISI 316L steel produced by selective laser melting. <i>Materials Characterization</i> , 2020, 163, 110283.	4.4	29
10	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of AlSi10Mg Aluminum Alloy Produced by Selective Laser Melting. <i>Jom</i> , 2019, 71, 1737-1747.	1.9	27
11	Mg/ZrO <sub>2</sub> Metal Matrix Nanocomposites Fabricated by Friction Stir Processing: Microstructure, Mechanical Properties, and Corrosion Behavior. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 605171.	4.1	26
12	Modification of cold-sprayed high-entropy alloy particles reinforced aluminum matrix composites via friction stir processing. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164426.	5.5	26
13	Friction stir processing induced electrochemical performance improvement of commercial Al for Al-air battery. <i>Electrochimica Acta</i> , 2020, 354, 136635.	5.2	25
14	Underwater friction stir welding of ultrafine grained 2017 aluminum alloy. <i>Journal of Central South University</i> , 2012, 19, 2081-2085.	3.0	24
15	Effect of the rotation rate on the low-cycle fatigue behavior of friction-stir welded AZ31 magnesium alloy. <i>Engineering Fracture Mechanics</i> , 2020, 228, 106925.	4.3	23
16	Microstructure and nanomechanical behavior of friction stir welded joint of 7055 aluminum alloy. <i>Journal of Manufacturing Processes</i> , 2021, 61, 311-321.	5.9	18
17	Microstructure and mechanical properties of magnesium–lithium alloy prepared by friction stir processing. <i>Rare Metals</i> , 2021, 40, 2552-2559.	7.1	16
18	Microstructure and Mechanical Properties of Low-Carbon Q235 Steel Welded Using Friction Stir Welding. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1556-1570.	2.9	13

#	ARTICLE	IF	CITATIONS
19	Effects of interlayer metal on microstructures and mechanical properties of friction stir lap welded dissimilar joints of magnesium and aluminum alloys. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117362.	6.3	13
20	Mechanical and corrosion properties of low-carbon steel prepared by friction stir processing. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 202-209.	4.9	12
21	Microstructure and mechanical properties of friction stir welded joint of TRIP steel. <i>Journal of Manufacturing Processes</i> , 2020, 56, 623-634.	5.9	12
22	Effects of Ni <sup>2+</sup> on aluminum hydroxide scale formation and transformation on a simulated drinking water distribution system. <i>Chemosphere</i> , 2014, 107, 211-217.	8.2	11
23	Effect of Travel Speed on the Stress Corrosion Behavior of Friction Stir Welded 2024-T4 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1820-1828.	2.5	10
24	Microstructural evolution and corrosion behavior of friction stir processed fine-grained AZ80 Mg alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 93-108.	1.5	10
25	Microstructure, Mechanical Properties, and Corrosion Behavior of Mg-Al-Ca Alloy Prepared by Friction Stir Processing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 703-713.	2.9	10
26	A modified parallel constitutive model for elevated temperature flow behavior of Ti-6Al-4V alloy based on multiple regression. <i>International Journal of Materials Research</i> , 2017, 108, 527-541.	0.3	9
27	Enhanced Mechanical Properties of Pure Zirconium via Friction Stir Processing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 147-153.	2.9	7
28	Microstructure and mechanical properties of friction stir lap welded dissimilar zirconium-steel joint. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15087-15093.	5.8	7
29	Experimental investigation on fatigue crack initiation and propagation mechanism of friction stir lap welded dissimilar joints of magnesium and aluminum alloys. <i>Materials Characterization</i> , 2021, 177, 111176.	4.4	7
30	Corrosion properties of low carbon steel prepared by submerged friction stir processing. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1077-1083.	1.5	1
31	Effect of the microstructure on the corrosion behavior of dissimilar friction stir-welded 304 austenitic stainless steel and Q235 low-carbon steel joints. <i>Materials Research Express</i> , 2022, 9, 076508.	1.6	1
32	Effect of heterogeneous Ti layers on mechanical properties of Cu/Ti laminated sheets prepared by accumulative roll bonding. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , .	1.8	0