

Nan Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

452
citations

12
h-index

20
g-index

35
ext. papers

530
ext. citations

3.9
avg, IF

4.16
L-index

#	Paper	IF	Citations
34	Tensile property response of AZ91 Mg alloy subjected to pre-aging and high-force friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 841, 143033	5.3	0
33	Improved microstructure and mechanical properties of friction stir-welded AZ61 Mg alloy joint. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 2608-2619	5.5	1
32	Influence of heterogeneous microstructures on the mechanical properties of low-temperature friction stir processed AZ91D Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 809, 141004	5.3	7
31	Improvement of microstructure and mechanical properties of AZ61 Mg alloys subjected to rapid cooling friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2021 , 26, 503-512	3.7	1
30	Heterogeneous structure-induced strength and ductility synergy of brass subjected to rapid cooling friction stir welding. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 3785-3799	3.3	3
29	Improvement of microstructure and mechanical properties of C44300 tin brass subjected to double-pass rapid cooling friction stir welding. <i>Journal of Alloys and Compounds</i> , 2020 , 834, 155052	5.7	4
28	Microstructure and tensile properties of rapid-cooling friction-stir-welded AZ31B Mg alloy along thickness direction. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 3254-3262	3.3	9
27	Effect of Zener-Hollomon Parameter on Microstructure and Mechanical Properties of Copper Subjected to Friction Stir Welding. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 319-326	2.5	5
26	Microstructure and mechanical properties modification of low-temperature friction stir welded non-combustive Mg-9Al-1Zn-1Ca alloy joint. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 4448-4456	5.5	13
25	{10-12} twinning assisted microstructure and mechanical properties modification of high-force friction stir processed AZ31B Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 745, 400-403	5.3	12
24	Microstructure evolution and mechanical properties of friction stir welded FeCrNiCoMn high-entropy alloy. <i>Materials Science and Technology</i> , 2019 , 35, 577-584	1.5	12
23	Investigation on microstructure and mechanical properties of cold source assistant friction stir processed AZ31B magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138027	5.3	13
22	{10-12} twinning induced texture randomisation of friction stir processed AZ31B Mg alloy. <i>Materials Science and Technology</i> , 2019 , 35, 993-997	1.5	2
21	Microstructure and mechanical properties modification of friction stir welded Invar 36 alloy joint. <i>Science and Technology of Welding and Joining</i> , 2019 , 24, 79-82	3.7	1
20	Corrosion and Cavitation Erosion Behaviours of Cast Nickel Aluminium Bronze in 3.5% NaCl Solution with Different Sulphide Concentrations. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019 , 32, 1470-1482	2.5	5
19	Mechanical properties modification of large load friction stir welded AZ31B Mg alloy joint. <i>Materials Letters</i> , 2018 , 219, 93-96	3.3	14
18	Investigation on microstructure development and mechanical properties of large-load and low-speed friction stir welded Cu-30Zn brass joint. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 726, 169-178	5.3	13

17	Large load friction stir welding of Mg β Al β 0.4Mn β Ca magnesium alloy. <i>Materials Science and Technology</i> , 2018 , 34, 1118-1130	1.5	2
16	Structure β properties β modification of 70/30 brass by large-load and low-speed friction stir processing. <i>Materials Science and Technology</i> , 2018 , 34, 1768-1772	1.5	6
15	Achieving an excellent strength β ductility synergy in Zircaloy-4 by FSW with rapid cooling. <i>Materials Science and Technology</i> , 2018 , 34, 20-28	1.5	12
14	Enhanced strength and ductility of high pressure die casting AZ91D Mg alloy by using cold source assistant friction stir processing. <i>Materials Letters</i> , 2017 , 190, 24-27	3.3	12
13	Achieving good strength-ductility synergy of friction stir welded Cu joint by using large load with extremely low welding speed and rotation rate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 73-81	5.3	12
12	Twinning-induced mechanical properties β modification of CP-Ti by friction stir welding associated with simultaneous backward cooling. <i>Science and Technology of Welding and Joining</i> , 2017 , 22, 610-616	3.7	8
11	Corrosion and Cavitation Erosion Behaviors of Two Marine Propeller Materials in Clean and Sulfide-Polluted 3.5% NaCl Solutions. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017 , 30, 712-720	2.5	14
10	Enhanced strength and ductility of friction stir welded Cu joint by using large load with extremely low welding and rotation speed. <i>Materials Letters</i> , 2017 , 205, 219-222	3.3	8
9	Dynamic and static change of grain size and texture of copper during friction stir welding. <i>Journal of Materials Processing Technology</i> , 2016 , 232, 90-99	5.3	30
8	Enhanced mechanical properties of tungsten inert gas welded AZ31 magnesium alloy joint using two-pass friction stir processing with rapid cooling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 655, 292-299	5.3	29
7	Modification of mechanical properties of friction stir welded Cu joint by additional liquid CO β 2 cooling. <i>Materials & Design</i> , 2014 , 56, 20-25		52
6	Enhanced mechanical properties of 70/30 brass joint by rapid cooling friction stir welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 610, 132-138	5.3	55
5	Effects of solution and aging treatments on microstructures and mechanical properties of AZ61 magnesium alloy welded joints. <i>Rare Metals</i> , 2012 , 31, 12-16	5.5	3
4	Effect of preheat on TIG welding of AZ61 magnesium alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012 , 19, 360-363	3.1	6
3	Effects of TiO β 2 coating on the microstructures and mechanical properties of tungsten inert gas welded AZ31 magnesium alloy joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7276-7284	5.3	27
2	Effects of heat input on the low power Nd:YAG pulse laser conduction weldability of magnesium alloy AZ61. <i>Optics and Lasers in Engineering</i> , 2011 , 49, 89-96	4.6	30
1	Abnormal distribution of microhardness in tungsten inert gas arc butt-welded AZ61 magnesium alloy plates. <i>Materials Characterization</i> , 2010 , 61, 713-719	3.9	31