Nan Xu

List of Publications by Citations

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	Enhanced mechanical properties of 70/30 brass joint by rapid cooling friction stir welding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 610, 132-138	5.3	55
33	Modification of mechanical properties of friction stir welded Cu joint by additional liquid CO2 cooling. *Materials & Design*, **2014**, 56, 20-25		52
32	Abnormal distribution of microhardness in tungsten inert gas arc butt-welded AZ61 magnesium alloy plates. *Materials Characterization*, **2010**, 61, 713-719	3.9	31
31	Dynamic and static change of grain size and texture of copper during friction stir welding. *Journal of Materials Processing Technology*, **2016**, 232, 90-99	5.3	30
30	Effects of heat input on the low power Nd:YAG pulse laser conduction weldability of magnesium alloy AZ61. *Optics and Lasers in Engineering*, **2011**, 49, 89-96	4.6	30
29	Enhanced mechanical properties of tungsten inert gas welded AZ31 magnesium alloy joint using two-pass friction stir processing with rapid cooling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 655, 292-299	5.3	29
28	Effects of TiO2 coating on the microstructures and mechanical properties of tungsten inert gas welded AZ31 magnesium alloy joints. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 7276-7284	5.3	27
27	Corrosion and Cavitation Erosion Behaviors of Two Marine Propeller Materials in Clean and Sulfide-Polluted 3.5% NaCl Solutions. *Acta Metallurgica Sinica (English Letters)*, **2017**, 30, 712-720	2.5	14
26	Mechanical properties□modification of large load friction stir welded AZ31B Mg alloy joint. *Materials Letters*, **2018**, 219, 93-96	3.3	14
25	Microstructure and mechanical properties□modification of low-temperature friction stir welded non-combustive Mg-9A1-1Zn-1Ca alloy joint. *Journal of Materials Research and Technology*, **2019**, 8, 4448-4456	5.5	13
24	Investigation on microstructure and mechanical properties of cold source assistant friction stir processed AZ31B magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 761, 138027	5.3	13
23	Investigation on microstructure development and mechanical properties of large-load and low-speed friction stir welded Cu-30Zn brass joint. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 726, 169-178	5.3	13
22	Enhanced strength and ductility of high pressure die casting AZ91D Mg alloy by using cold source assistant friction stir processing. *Materials Letters*, **2017**, 190, 24-27	3.3	12
21	Achieving good strength-ductility synergy of friction stir welded Cu joint by using large load with extremely low welding speed and rotation rate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 687, 73-81	5.3	12
20	{10□2} twinning assisted microstructure and mechanical properties modification of high-force fiction stir processed AZ31B Mg alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 745, 400-403	5.3	12
19	Microstructure evolution and mechanical properties of friction stir welded FeCrNiCoMn high-entropy alloy. *Materials Science and Technology*, **2019**, 35, 577-584	1.5	12
18	Achieving an excellent strength□ductility synergy in Zircaloy-4 by FSW with rapid cooling. *Materials Science and Technology*, **2018**, 34, 20-28	1.5	12

17	Microstructure and tensile properties of rapid-cooling friction-stir-welded AZ31B Mg alloy along thickness direction. *Transactions of Nonferrous Metals Society of China*, **2020**, 30, 3254-3262	3.3	9
16	Twinning-induced mechanical properties modification of CP-Ti by friction stir welding associated with simultaneous backward cooling. *Science and Technology of Welding and Joining*, **2017**, 22, 610-616	3.7	8
15	Enhanced strength and ductility of friction stir welded Cu joint by using large load with extremely low welding and rotation speed. *Materials Letters*, **2017**, 205, 219-222	3.3	8
14	Influence of heterogeneous microstructures on the mechanical properties of low-temperature friction stir processed AZ91D Mg alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 809, 141004	5.3	7
13	Structure properties modification of 70/30 brass by large-load and low-speed friction stir processing. *Materials Science and Technology*, **2018**, 34, 1768-1772	1.5	6
12	Effect of preheat on TIG welding of AZ61 magnesium alloy. *International Journal of Minerals, Metallurgy and Materials*, **2012**, 19, 360-363	3.1	6
11	Corrosion and Cavitation Erosion Behaviours of Cast Nickel Aluminium Bronze in 3.5% NaCl Solution with Different Sulphide Concentrations. *Acta Metallurgica Sinica (English Letters)*, **2019**, 32, 1470-1482	2.5	5
10	Effect of Zener Hollomon Parameter on Microstructure and Mechanical Properties of Copper Subjected to Friction Stir Welding. *Acta Metallurgica Sinica (English Letters)*, **2020**, 33, 319-326	2.5	5
9	Improvement of microstructure and mechanical properties of C44300 tin brass subjected to double-pass rapid cooling friction stir welding. *Journal of Alloys and Compounds*, **2020**, 834, 155052	5.7	4
8	Effects of solution and aging treatments on microstructures and mechanical properties of AZ61 magnesium alloy welded joints. *Rare Metals*, **2012**, 31, 12-16	5.5	3
7	Heterogeneous structure-induced strength and ductility synergy of brass subjected to rapid cooling friction stir welding. *Transactions of Nonferrous Metals Society of China*, **2021**, 31, 3785-3799	3.3	3
6	{10-12} twinning induced texture randomisation of friction stir processed AZ31B Mg alloy. *Materials Science and Technology*, **2019**, 35, 993-997	1.5	2
5	Large load friction stir welding of Mg3Al0.4Mn2Ca magnesium alloy. *Materials Science and Technology*, **2018**, 34, 1118-1130	1.5	2
4	Microstructure and mechanical properties modification of friction stir welded Invar 36 alloy joint. *Science and Technology of Welding and Joining*, **2019**, 24, 79-82	3.7	1
3	Improvement of microstructure and mechanical properties of AZ61 Mg alloys subjected to rapid cooling friction stir welding. *Science and Technology of Welding and Joining*, **2021**, 26, 503-512	3.7	1
2	Improved microstructure and mechanical properties of friction stir-welded AZ61 Mg alloy joint. *Journal of Materials Research and Technology*, **2022**, 18, 2608-2619	5.5	1
1	Tensile property response of AZ91 Mg alloy subjected to pre-aging and high-force friction stir processing. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 841, 143033	5.3	0