Sindo Kou

List of Publications by Year in descending order

48 papers	2,221 citations	361413 20 h-index	315739 38 g-index
50 all docs	50 docs citations	50 times ranked	1167 citing authors

#	Article	IF	Citations
1	In Situ Observation of Microstructural and Inclusions Evolution in High-Strength Steel Deposited Metals with Various Rare Earth Pr Contents. Materials, 2022, 15, 1257.	2.9	4
2	Solidification cracking test of aluminium alloy 5052. Science and Technology of Welding and Joining, 2022, 27, 301-308.	3.1	5
3	An analytical model for intergranular liquid feeding and its effect on solidification cracking. Science and Technology of Welding and Joining, 2022, 27, 319-325.	3.1	5
4	Calculating the Susceptibility of Carbon Steels to Solidification Cracking During Welding. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 460-469.	2.1	21
5	Solidification cracking susceptibility of quaternary aluminium alloys. Science and Technology of Welding and Joining, 2021, 26, 244-257.	3.1	20
6	Solidification cracking susceptibility associated with a teardrop-shaped weld pool. Science and Technology of Welding and Joining, 2021, 26, 341-347.	3.1	8
7	Back diffusion resisting solidification cracking in austenitic stainless steels. Science and Technology of Welding and Joining, 2021, 26, 606-613.	3.1	6
8	Predicting Susceptibility to Solidification Cracking and Liquation Cracking by CALPHAD. Metals, 2021, 11, 1442.	2.3	13
9	Prediction of Cracking Susceptibility of Commercial Aluminum Alloys during Solidification. Metals, 2021, 11, 1479.	2.3	8
10	Roles of tension and solidification shrinkage in solidification cracking during aluminium arc welding. Science and Technology of Welding and Joining, 2021, 26, 614-621.	3.1	7
11	Susceptibility of magnesium alloys to solidification cracking. Science and Technology of Welding and Joining, 2020, 25, 251-257.	3.1	37
12	Evaluating susceptibility of carbon steels to solidification cracking by transverse-motion weldability test. Science and Technology of Welding and Joining, 2020, 25, 706-711.	3.1	7
13	Evaluating susceptibility of Ni-base alloys to solidification cracking by transverse-motion weldability test. Science and Technology of Welding and Joining, 2020, 25, 690-697.	3.1	23
14	Determination of tensile strain causing solidification cracking in welding. Science and Technology of Welding and Joining, 2020, 25, 431-437.	3.1	10
15	Role of liquid backfilling in reducing solidification cracking in aluminium welds. Science and Technology of Welding and Joining, 2020, 25, 415-421.	3.1	23
16	Predicting effect of filler metals on solidification cracking susceptibility of 2024 Al and 6061 Al. Science and Technology of Welding and Joining, 2019, 24, 559-565.	3.1	23
17	Effect of pressure on solidification cracking susceptibility of Alâ€“Si alloys. Science and Technology of Welding and Joining, 2019, 24, 713-720.	3.1	0
18	Effect of filler metals on solidification cracking susceptibility of Al alloys 2024 and 6061. Journal of Materials Processing Technology, 2019, 266, 421-428.	6.3	36

#	Article	IF	Citations
19	Mechanical properties of squeeze-cast Alâ€“7Siâ€“0.3Mg alloys with Sc-modified Fe-rich intermetallic compounds. Rare Metals, 2018, 37, 769-777.	7.1	9
20	A simple test for assessing solidification cracking susceptibility and checking validity of susceptibility prediction. Acta Materialia, 2018, 143, 181-197.	7.9	85
21	Susceptibility of ternary aluminum alloys to cracking during solidification. Acta Materialia, 2017, 125, 513-523.	7.9	128
22	Evidence of back diffusion reducing cracking during solidification. Acta Materialia, 2017, 122, 47-59.	7.9	76
23	Crack susceptibility of binary aluminum alloys during solidification. Acta Materialia, 2016, 110, 84-94.	7.9	120
24	A criterion for cracking during solidification. Acta Materialia, 2015, 88, 366-374.	7.9	441
25	Computational Kinetics Simulation of Precipitation and Dissolution of Gamma Prime (Î³â€²) in Heat Treating and Welding of 718plus Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 115-122.	2.2	8
26	Predicting susceptibility of magnesium alloys to weld-edge cracking. Acta Materialia, 2015, 90, 242-251.	7.9	34
27	Effect of diffusion on susceptibility to cracking during solidification. Acta Materialia, 2015, 100, 359-368.	7.9	111
28	Liquation Cracking in Arc and Friction-Stir Welding of Mg-Zn Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 315-327.	2.2	14
29	Nanoparticle-Induced Superior Hot Tearing Resistance of A206 Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1897-1907.	2.2	46
30	Al-to-Cu Friction Stir Lap Welding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 303-315.	2.2	67
31	Characterization of hot extruded Mg/SiC nanocomposites fabricated by casting. Journal of Materials Science, 2011, 46, 2991-2997.	3.7	36
32	Al-to-Mg Friction Stir Welding: Effect of Material Position, Travel Speed, and Rotation Speed. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2914-2935.	2.2	196
33	Formation of Liquid and Intermetallics in Al-to-Mg Friction Stir Welding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3238-3251.	2.2	153
34	Strong, Ductile Magnesium-Zinc Nanocomposites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 3038-3045.	2.2	93
35	Thermocapillary flow and natural convection in a melt column with an unknown melt/solid interface. International Journal for Numerical Methods in Fluids, 1991, 12, 59-80.	1.6	14
36	WELD POOL CONVECTION AND EXPANSION DUE TO DENSITY VARIATIONS. Numerical Heat Transfer; Part A: Applications, 1990, 17, 73-89.	2.1	14

#	Article	IF	Citations
37	Marangoni convection in weld pools with a free surface. International Journal for Numerical Methods in Fluids, 1989, 9, 1503-1516.	1.6	66
38	Fluid flow and weld penetration in stationary arc welds. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1985, 16, 203-213.	1.4	30
39	Fluid flow and weld penetration in stationary arc welds. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1985, 16, 203-213.	1.4	209
40	Transformation-Hardening Materials: Carbon and Alloy Steels. , 0, , 393-430.		1
41	Weld Metal Chemical Inhomogeneities. , 0, , 243-262.		0
42	Precipitation-Hardening Materials I: Aluminum Alloys. , 0, , 353-374.		4
43	Weld Metal Solidification Cracking. , 0, , 263-300.		6
44	Difficulties Associated with the Partially Melted Zone. , 0, , 321-339.		1
45	Work-Hardened Materials. , 0, , 341-352.		1
46	Precipitation-Hardening Materials II: Nickel-Base Alloys. , 0, , 375-392.		0
47	Corrosion-Resistant Materials: Stainless Steels. , 0, , 431-454.		2
48	Formation of the Partially Melted Zone. , 0, , 301-320.		0