CITATION REPORT List of articles citing

Friction Stir Processing: A New Grain Refinement Technique to Achieve High Strain Rate Superplasticity in Commercial Alloys

DOI: 10.4028/www.scientific.net/msf.357-359.507 Materials Science Forum, 2001, 357-359, 507-514.

Source: https://exaly.com/paper-pdf/33428762/citation-report.pdf

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper IF	Citations
214	Processing commercial aluminum alloys for high strain rate superplasticity. 2001 , 53, 23-26	14
213	Heterogeneity of crystallographic texture in friction stir welds of aluminum. 2001, 32, 2869-2877	191
212	Superplastic deformation behaviour of friction stir processed 7075Al alloy. 2002 , 50, 4419-4430	343
211	Friction stir processing: a novel technique for fabrication of surface composite. 2003, 341, 307-310	756
210	Self-optimization in tool wear for friction-stir welding of Al 6061+20% Al2O3 MMC. 2003 , 349, 156-165	130
209	High strain rate superplasticity in friction stir processed AlMg@r alloy. 2003, 351, 148-153	109
208	High strain rate superplasticity in a commercial 2024 Al alloy via friction stir processing. 2003 , 359, 290-296	196
207	Cavitation in superplastic 7075Al alloys prepared via friction stir processing. 2003, 51, 3551-3569	59
206	A new route to bulk nanocrystalline materials. 2003 , 18, 1757-1760	82
205	Evaluation of microstructure and superplasticity in friction stir processed 5083 Al alloy. 2004 , 19, 3329-3342	67
204	Superplastic Forming of 7475 Al Sheet after Friction Stir Processing (FSP). <i>Materials Science Forum</i> , 0.4	13
203	Superplasticity in cast A356 induced via friction stir processing. 2004 , 50, 931-935	118
202	Structural evolution and superplastic formability of friction stir welded AA 2095 sheets. <i>Journal of Materials Engineering and Performance</i> , 2004 , 13, 24-31	7
201	Friction stir welding and processing. 2005 , 50, 1-78	4398
2 00	Deep cup forming by superplastic punch stretching of friction stir processed 7075 Al alloy. 2005 , 395, 173-179	28
199	Low temperature superplasticity in a friction-stir-processed ultrafine grained AlಔnMgBc alloy. 2005 , 53, 4211-4223	154
198	Friction stir processing of large-area bulk UFG aluminum alloys. 2005 , 52, 135-140	241

(2007-2005)

197	Development of ultrafine-grained microstructure and low temperature (0.48 Tm) superplasticity in friction stir processed AlMgIr. 2005 , 53, 75-80		101	
196	Microstructure evolution during FSW/FSP of high strength aluminum alloys. 2005 , 405, 277-286		357	
195	Effect of friction stir processing on the kinetics of superplastic deformation in an Al-Mg-Zr alloy. 2005 , 36, 1447-1458		42	
194	Superplastic Deformation and Microstructure Evolution of Friction Stir Weld of 1420 Al-Li Alloy. <i>Materials Science Forum</i> , 2005 , 475-479, 3033-3036	0.4	1	
193	Enhancement of Ductility and Strength through Microstructural Refinement by FSP of Nickel Aluminum Bronze. <i>Materials Science Forum</i> , 2006 , 503-504, 161-168	0.4	3	
192	Effect of Prior Deformation on Tensile and Vibration Fracture Resistance of Friction Stirred 5052 Alloy. 2006 , 47, 2504-2511		1	
191	Effect of friction stir processing on the microstructure of cast A356 aluminum. 2006 , 433, 269-278		167	
190	Stir zone microstructure and strain rate during Al 7075-T6 friction stir spot welding. 2006 , 37, 2773-27	86	130	
189	Effect of multiple-pass friction stir processing on microstructure and tensile properties of a cast aluminumBilicon alloy. 2006 , 54, 1623-1626		143	
188	Grain refinement of aluminum alloys by friction stir processing. 2006 , 86, 1-24		93	
187	The Influence of Processing Parameters on Microstructure of Al 5754 Friction Stir Spot Welds. <i>Materials Science Forum</i> , 2006 , 519-521, 1107-1112	0.4	8	
186	Development of Superplastic Properties in Quasi Single Phase Alloys. <i>Materials Science Forum</i> , 2007 , 551-552, 357-364	0.4	8	
185	Grain Refinement and High Temperature Deformation in Friction Stir Processed Sheets of Magnesium Alloys. <i>Materials Science Forum</i> , 2007 , 551-552, 55-60	0.4	3	
184	Microstructure Evolution and Microstructure-Property Relationships in Friction Stir Processing of NiAl Bronze. <i>Materials Science Forum</i> , 2007 , 539-543, 3745-3750	0.4	7	
183	Superplastic Properties and Microstructure of Friction Stir Welded Joints of Zn-22wt.%Al Alloy. 2007 , 340-341, 1417-1424		1	
182	Microstructural transformations and mechanical properties of cast NiAl bronze: Effects of fusion welding and friction stir processing. 2007 , 463, 128-137		60	
181	Finite element simulation of selective superplastic forming of friction stir processed 7075 Al alloy. 2007 , 463, 245-248		27	
180	Relationship between deformation behavior and microstructural evolution of friction stir processed ZnII 2wt.% Al alloy. 2007 , 56, 477-480		24	

179	The mechanical and thick section bending behavior of friction stir processed aluminum plate. 2007 , 57, 269-272	11
178	Intermixing in Dissimilar Friction Stir Spot Welds. 2007 , 38, 584-595	128
177	Friction Stir Processing Technology: A Review. 2008 , 39, 642-658	745
176	Effects of Applied Load on 6061-T6 Aluminum Joined Employing a Novel Friction Bonding Process. 2008 , 39, 2852-2861	10
175	Achieving exceptionally high superplasticity at high strain rates in a micrograined AlMgBc alloy produced by friction stir processing. 2008 , 59, 882-885	82
174	Using friction stir processing to produce ultrafine-grained microstructure in AZ61 magnesium alloy. 2008 , 18, 562-565	39
173	Microstructural evolution and enhanced superplasticity in friction stir processed Mg团n团口 alloy. 2008 , 23, 1207-1213	23
172	Cracking in dissimilar Mg alloy friction stir spot welds. 2008 , 13, 583-592	28
171	Achieving ultra-fine grains in AZ61 Mg alloy by friction stir processing. 2008, 99, 1375-1378	8
170	FRICTION STIR PROCESSING OF SKD61 TOOL STEEL. 2009 , 23, 1116-1121	2
169	Evaluation of microstructure and mechanical properties in friction stir processed SKD61 tool steel. 2009 , 60, 1471-1475	42
168	Using two-pass friction stir processing to produce nanocrystalline microstructure in AZ61 magnesium alloy. 2009 , 52, 1751-1755	21
167	Effect of friction stir processing on the tribological performance of high carbon steel. 2009 , 267, 350-355	68
166	Superplastic behavior of micro-regions in two-pass friction stir processed 7075Al alloy. 2009 , 505, 70-78	61
165	Microstructural modification and ductility enhancement of surfaces modified by FSP in aluminium alloys. 2009 , 506, 16-22	71
164	Inhomogeneous microstructure and mechanical properties of friction stir processed NiAl bronze. 2009 , 524, 119-128	58
163	Friction stir processing of 316L stainless steel plate. 2009 , 14, 197-201	45
162	Grain refinement of AZ31 magnesium alloy by means of hydrogenation treatment. 2009 , 59, 13-18	2

(2012-2010)

161	Materials Science Forum, 2010 , 638-642, 1191-1196	0.4	15
160	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of a Cast-Magnesium R are Earth Alloy. 2010 , 41, 73-84		59
159	Effect of Heat Input Conditions on Microstructure and Mechanical Properties of Friction-Stir-Welded Pure Copper. 2010 , 41, 2010-2021		64
158	Influence of subsequent cold work on the superplastic properties of a friction stir welded (FSW) aluminium alloy. 2010 , 527, 1022-1026		9
157	Effects of the Parameters of Friction Stir Processing on Silicon Particles and Hardness in Hypereutectic Al-Si Alloys. 2010 , 148-149, 1689-1694		
156	Friction Stir Processing of Particle Reinforced Composite Materials. <i>Materials</i> , 2010 , 3, 329-350	3.5	81
155	Superplasticity in Friction Stir Processed AZ80 Magnesium Alloy. 2010 , 433, 241-246		4
154	A Novel Way to Fabricate Carbon Nanotubes Reinforced Copper Matrix Composites by Friction Stir Processing. 2011 , 391-392, 524-529		6
153	Effect of Friction Stir Processing on Corrosion Behavior of AA5083 Aluminum Alloy. 2011 , 307-313		
152	Effect of grain size refinement and precipitation reactions on strengthening in friction stir processed Altu alloys. 2011 , 65, 1057-1060		78
151	The effect of friction stir processing on the microstructure and mechanical properties of equal channel angular pressed 5052Al alloy sheet. 2011 , 46, 5527-5533		14
150	The Mechanical Properties of Al-30Si Alloy by Friction Stir Processing. 2011 , 189-193, 3601-3604		1
149	Effect of Microstructural Evolution on the Properties of Friction Stir Processed Al 6061 Alloy under Different Cooling Conditions. 2012 , 620, 77-81		
148	Microstructure and tensile behavior of a friction stir processed magnesium alloy. 2012 , 60, 5079-5088		62
147	Corrosion behavior of a friction stir processed rare-earth added magnesium alloy. 2012 , 58, 321-326		113
146	High Strain Rate Superplasticity in a Micro-grained AlMgBc Alloy with Predominant High Angle Grain Boundaries. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 1025-1030	9.1	53
145	Parametric Study of Friction Stir Processing of Magnesium-Based AE42 Alloy. <i>Journal of Materials Engineering and Performance</i> , 2012 , 21, 2328-2339	1.6	16
144	Review of tools for friction stir welding and processing. 2012 , 51, 250-261		260

143	Simulation of Friction Stir Processing with Internally Cooled Tool. 2012 , 445, 560-565	3
142	Numerical simulation of temperature distribution using finite difference equations and estimation of the grain size during friction stir processing. 2012 , 543, 231-242	10
141	Microstructure and mechanical property of nano-SiCp reinforced high strength Mg bulk composites produced by friction stir processing. 2012 , 547, 32-37	52
140	Some Observations on Microstructural Changes in a Mg-Based AE42 Alloy Subjected to Friction Stir Processing. 2012 , 43, 92-108	28
139	Corrosion Behavior of a Mg Alloy AE42 Subjected to Friction Stir Processing. 2013 , 69, 122-135	12
138	Effect of friction stir processing on the electrical resistivity of AA 6082. 2013 ,	1
137	Recrystallization Phenomena During Friction Stir Processing of Hypereutectic Aluminum-Silicon Alloy. 2013 , 44, 1519-1529	36
136	Friction and wear performance of coppergraphite surface composites fabricated by friction stir processing (FSP). 2013 , 304, 1-12	135
135	Microstructure characterization of the stir zone of submerged friction stir processed aluminum alloy 2219. 2013 , 82, 97-102	61
134	Flow Behavior of SiC Particles as Tracer Material during the Fabrication of MMCs by Friction Stir Processing. 2013 , 29-38	2
133	High strain rate superplasticity in friction stir processed ultrafine grained MgAlZn alloys. 2013, 562, 69-76	62
132	Production of robust friction stir welds. 2013 , 277-285	
131	Lilers deformation and superplastic flow of metals extruded by KOBO method. 2013, 93, 1883-1913	20
130	Friction Stir Processing in Wrought and Cast Aluminum Alloys. <i>Materials Science Forum</i> , 2013 , 765, 741-7	1
129	Three-dimensional investigation on temperature distribution and mechanical properties of AZ31Mg alloy joint welded by FSW. 2013 , 67-72	
128	Manufacturing of Nano-Surface AA7075 Composites by Friction Stir Processing. 2014 , 1417-1422	1
127	References. 2014 , 93-97	
126	Forming of Metal Matrix Composites. 2014 , 159-186	6

125	Microstructure-Property Relationship for Friction Stir Processed Magnesium Alloy. 2014 , 16, 94-102		7
124	Surface Modification and Nanocomposite Layering of Fastener-Hole through Friction-Stir Processing. 2014 , 29, 726-732		21
123	Prediction of Friction Stir Processed AZ31 Magnesium Alloy Micro-Hardness Using Artificial Neural Networks. 2014 , 1043, 91-95		4
122	Recent Developments in Friction Stir Welding of Al-alloys. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 1936-1953	1.6	278
121	A Numerical Model for Predicting the Zener-Hollomon Parameter in the Friction Stir Processing of AZ31B. <i>Materials Science Forum</i> , 2014 , 783-786, 93-99	0.4	1
120	Texture evolution and deformation mechanism in friction stir welding of 2219Al. 2014 , 612, 267-277		21
119	Formation of Nanostructure in AISI 316L Austenitic Stainless Steel by Friction Stir Processing. 2015 , 11, 397-402		12
118	An Analytical Investigation on the Effects of Heat Input on Microstructures, Phase Transformations and Mechanical Properties of Ultrafine Grained Mg Alloys Fabricated by Friction Stir Processing in Different Velocity Ratios. 2015 , 11, 101-107		1
117	Investigation of Microstructure and Hardness of Mg/TiC Surface Composite Fabricated by Friction Stir Processing (FSP). 2015 , 11, 509-514		17
116	Effect of tool pin design on the microstructural evolutions and tribological characteristics of friction stir processed structural steel. 2015 , 68, 111-116		46
115	Mechanical and Tribological Behaviour of Friction-Stir-Processed Al 6061 Aluminium Sheet Metal Reinforced with ({{rm Al}_{2}{rm O}_{3}/0.5,{rm Gr}}) Hybrid Surface Nanocomposite. 2015 , 40, 559-569		33
114	A novel in-situ polymer derived nano ceramic MMC by friction stir processing. 2015 , 85, 626-634		37
113	Friction Stir Welding: Scope and Recent Development. 2015 , 179-229		18
112	Relating grain size to the Zener⊞ollomon parameter for twin-roll-cast AZ31B alloy refined by friction stir processing. 2015 , 222, 301-306		57
111	Mechanical Properties and Corrosion Behavior of CeO2 and SiC Incorporated Al5083 Alloy Surface Composites. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3169-3179	1.6	29
110	The Role of Friction Stir Processing (FSP) Parameters on TiC Reinforced Surface Al7075-T651 Aluminum Alloy. 2016 , 21, 508-516		8
109	Friction Stir Processing as a Novel Technique to Achieve Superplasticity in Aluminum Alloys: Process Variables, Variants, and Applications. 2016 , 5, 278-293		57
108	Effect of Velocity Index on Grain Size of Friction Stir Processed Al-Zn-Mg-Cu Alloy. 2016 , 23, 537-542		20

107	Influence of friction stir processing on the microstructure and mechanical properties of a compocast AA2024-Al2O3 nanocomposite. 2016 , 106, 273-284	45
106	Influence of Friction Stir Processed Parameters on Superplasticity of Al-Zn-Mg-Cu Alloy. 2016 , 31, 1573-1582	76
105	Influence of Pin Profile on the Tool Plunge Stage in Friction Stir Processing of Alևn Mgtu Alloy. 2017 , 70, 1151-1158	27
104	Effect of Process Parameters on Microstructural Evolution, Mechanical Properties and Corrosion Behavior of Friction Stir Processed Al 7075 Alloy. <i>Journal of Materials Engineering and Performance</i> , 1.6 2017 , 26, 1122-1134	27
103	Effect of Temperature on Microstructure and Fracture Mechanisms in Friction Stir Welded Al6061 Joints. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2542-2554	12
102	Improvement the wear behavior of low carbon steels by friction stir processing. 2017 , 174, 012058	5
101	Simultaneous improvement of mechanical strength, ductility and corrosion resistance of stir cast Al7075-2% SiC micro- and nanocomposites by friction stir processing. 2017 , 30, 1-13	51
100	Grain refinement and nanostructure formation in pure copper during cryogenic friction stir processing. 2017 , 703, 470-476	27
99	End forming behaviour of friction stir processed Al 6063-T6 tubes at different tool rotational speeds. 2017 , 52, 434-449	12
98	In-situ fabrication of Al 3 Zr aluminide reinforced AA3003 alloy composite by friction stir processing. 2017 , 131, 78-90	14
97	Enhancement of mechanical and tribological properties of SiC- and CB-reinforced aluminium 7075 hybrid composites through friction stir processing. 2017 , 1-18	20
96	Ductility Improvement of an AZ61 Magnesium Alloy through Two-Pass Submerged Friction Stir Processing. <i>Materials</i> , 2017 , 10,	20
95	Effects of Friction Stir Processing on Mechanical Properties and Damping Capacities of AZ31 Magnesium Alloys. 2017 , 230, 012013	2
94	Production and characterization of A5083Al2O3IIiO2 hybrid surface nanocomposite by friction stir processing. 2018 , 232, 287-293	8
93	Effect of SiC and TiC nanoparticle reinforcement on the microstructure, microhardness, and tensile performance of AA6082-T6 friction stir welds. 2018 , 95, 3823-3837	29
92	On Si Redistribution During Friction Stir Processing of Cast Al-7%Si I .4%Mg Alloys. 2018 , 417-422	2
91	Recent Advances in Friction Stir Welding/Processing of Aluminum Alloys: Microstructural Evolution and Mechanical Properties. 2018 , 43, 269-333	135
90	Strategical parametric investigation on manufacturing of AlMgInII alloy surface composites using FSP. 2018 , 33, 534-545	28

89	Aging Behavior of Aluminum Alloy 6082 Subjected to Friction Stir Processing. 2018 , 8, 337	5
88	Characterization of Microstructural Refinement and Hardness Profile Resulting from Friction Stir Processing of 6061-T6 Aluminum Alloy Extrusions. 2018 , 8, 552	5
87	Effect of microstructures to tensile and impact properties of stir zone on 9%Cr reduced activation ferritic/martensitic steel friction stir welds. 2018 , 729, 257-267	17
86	Severe Plastic Deformation Methods for Sheets. 2018 , 113-129	7
85	Effects of in-process cryocooling on metallurgical and mechanical properties of friction stir processed Al7075 alloy. 2018 , 144, 440-447	21
84	Study of Nano-Mechanical, Electrochemical and Raman Spectroscopic Behavior of Al6061-SiC-Graphite Hybrid Surface Composite Fabricated through Friction Stir Processing. <i>Journal</i> 3 of Composites Science, 2018 , 2, 32	22
83	Microstructural evolution and mechanical properties of a friction-stir processed Ti-hydroxyapatite (HA) nanocomposite. 2018 , 88, 127-139	13
82	Development and Characterization of AA5083 Reinforced with SiC and Al2O3 Particles by Friction Stir Processing. 2019 , 11-26	12
81	Sandwich Method: Strategy to Fabricate Al/SiC Composites by FSP. 2019 , 72, 3249-3259	1
80	Experimental evaluation and prediction of end-forming behavior of friction stir processed Al6063T6 tubes at different tool traverse speeds. 2019 , 104, 3607-3627	1
79	A Review on Friction Stir Processing of Titanium Alloy: Characterization, Method, Microstructure, Properties. 2019 , 50, 2134-2162	19
78	Effect of multi-pass friction stir processing on microstructural, mechanical and tribological behaviour of as-cast AlಔnMgሺu alloy. 2019 , 6, 096579	6
77	Microstructure investigation, mechanical properties and wear behavior of Al 1050/SiC composites fabricated by friction stir processing (FSP). 2019 , 6, 096522	5
76	Effect of exfoliated few-layered graphene on corrosion and mechanical behaviour of the graphitized AlBiC surface composite fabricated by FSP. 2019 , 42, 1	13
75	Texture evolution and wear properties of a frictionally stir processed magnesium matrix composite reinforced by micro graphite and nano graphene particles. 2019 , 6, 1065c6	5
74	Developments in Friction Stir Processing A Near Net Shape Forming Technique. 2019 , 35-53	3
73	Development and characterization of Al5083-CNTs/SiC composites via friction stir processing. 2019 , 798, 82-92	41
72	Evaluating the microstructure and mechanical properties of friction stir processed Al B i alloy. 2019 , 35, 1061-1070	10

71	Homogeneous Grain Refinement and Ductility Enhancement in AZ31B Magnesium Alloy Using Friction Stir Processing. 2019 , 83-87		2
70	Studies on High-Temperature Corrosion resistance of low carbon Steel in Actual boiler environment. 2019 , 574, 012021		1
69	Microstructure and mechanical properties of Al/SiC surface composite with different volume fractions using friction stir process. 2019 , 634, 012046		7
68	Development of A356/Al2O3 + SiO2 surface hybrid nanocomposite by friction stir processing. 2019 , 360, 121-132		33
67	Stationary shoulder tool in friction stir processing: a novel low heat input tooling system for magnesium alloy. 2019 , 34, 177-182		61
66	Process parameters optimization of friction stir processed Al 1050 aluminum alloy by response surface methodology (RSM). 2019 , 6, 026527		7
65	Friction stir processing of squeeze cast A356 with surface compacted graphene nanoplatelets (GNPs) for the synthesis of metal matrix composites. 2020 , 769, 138517		31
64	Tribological study of Graphene reinforced AA6082 surface composite processed through Friction Stir Processing. <i>Materials Today: Proceedings</i> , 2020 , 27, 2225-2229	1.4	2
63	Increasing the recycling percent in liquid-state recycling of Al machining chips by friction stir processing. 2020 , 243, 122627		3
62	Influence of reinforcement incorporation approach on mechanical and tribological properties of AA6061- CNT nanocomposite fabricated via FSP. 2020 , 59, 604-620		19
61	Recent research progresses in Al-7075 based in-situ surface composite fabrication through friction stir processing: A review. 2020 , 262, 114708		12
60	Investigating the effect of tool speed on the mechanical properties of Al5052 processed by friction stir processing. <i>Materials Today: Proceedings</i> , 2020 , 33, 1605-1609	1.4	5
59	Comparative analysis between normal and submerged friction stir processed friction stir welded dissimilar aluminium alloy joints. 2020 , 9, 9632-9644		19
58	Effect of friction stir welding (FSW) process parameters on dissimilar aluminium alloys: An overview. 2020 ,		
57	Studying the mechanical and Numerical properties of Friction stir welding (FSW) for 6005 aluminum alloys. 2020 , 870, 012141		О
56	Texture Related Inhomogeneous Deformation and Fracture Localization in Friction-Stir-Welded Magnesium Alloys: A Review. 2020 , 6,		1
55	Recent Development of Superplasticity in Aluminum Alloys: A Review. 2020 , 10, 77		21
54	Wear and microhardness behaviors of AA7075/SiC-BN hybrid nanocomposite surfaces fabricated by friction stir processing. 2020 , 46, 16938-16943		33

53	Manufacturing high strength aluminum matrix composites by friction stir processing: An innovative approach. 2020 , 283, 116722		13
52	Recent progress of CNTs reinforcement with metal matrix composites using friction stir processing. <i>Materials Today: Proceedings</i> , 2021 , 44, 1731-1738	1.4	4
51	Effect of friction stir processing on the wear rate of as-cast AZ91D Magnesium alloy. <i>Materials Today: Proceedings</i> , 2021 , 46, 10384-10388	1.4	
50	A comprehensive review on the dispersion and survivability issues of carbon nanotubes in Al/CNT nanocomposites fabricated via friction stir processing. 2021 , 31, 339-370		11
49	Effect of Multi-pass Friction Stir Processing on Microstructures and Mechanical Behaviors of As-Cast 2A14 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 3033-3043	1.6	3
48	AA3105/SiC composites fabricated by sandwich method: effect of overlapping. 2021 , 46, 1		O
47	Microstructure, hardness, and wear resistance of AZ91 magnesium alloy produced by friction stir processing with air-cooling. 2021 , 116, 1309-1323		5
46	20th Century Uninterrupted Growth in Friction Stir Processing of Lightweight Composites and Alloys. 2021 , 266, 124572		7
45	Effect of Process Parameter on Surface Composite Developed Through Friction Stir Processing: A Review. 2022 , 1-22		
44	Challenges, process requisites/inputs, mechanics and weld performance of dissimilar micro-friction stir welding (dissimilar ESW): A comprehensive review. 2021 , 68, 249-276		6
43	Numerical modeling and experimental investigation on the effect of rotation speed on microstructural evaluation and mechanical properties of copper during friction stir processing. 1-17		
42	Friction Stir Processing Influence on Microstructure, Mechanical, and Corrosion Behavior of Steels: A Review. <i>Materials</i> , 2021 , 14,	3.5	5
41	Improving mechanical and tribological performances of pure copper matrix surface composites reinforced by Ti2AlC MAX phase and MoS2 nanoparticles. 2021 , 270, 124790		4
40	On the Size, Shape and Spatial Distribution of Si Particles in A356 Castings After Single and Multiple Passes of Friction Stir Processing: The Effect of As-Cast Microstructures. 2021 , 52, 5096		O
39	Friction stir welding of Efcc dominated metastable high entropy alloy: Microstructural evolution and strength. 2021 , 204, 114161		4
38	Microstructural, mechanical and wear behavior of A7075 surface composite reinforced with WC and ZrSiO4 nanoparticle through friction stir processing. 2021 , 71, 85-105		2
37	The Effect of Heat Treatment on the Properties of Friction Stir Processed AA7075-O with and without Nano Alumina Additions. 115-123		3
36	Flow behavior of SiC particles as tracer material during the fabrication of MMCs by friction stir processing. 2013 , 29-38		2

35	The Effect of Heat Treatment on the Properties of Friction Stir Processed AA7075-O with and without Nano Alumina Additions. 2015 , 115-123	3
34	Microstructural and Mechanical Properties of AA6061 Aluminium Alloy Reinforced with Nano-SiC Particles Using FSP. 2020 , 195-204	2
33	Friction Stir Welding. 2010 , 87-121	1
32	Particle Distribution and Tool Wear in Friction Stir Processed Al-SiCp Coatings. 2010 , 47, 217-226	2
31	Effect of Cooling Conditions on Mechanical and Microstructural Behaviours of Friction Stir Processed AZ31B Mg Alloy. 2017 , 07, 144-160	8
30	Large-Strain Characteristics and Grain Refinement in Torsion Extrusion. 2009 , 50, 186-191	2
29	Electron Backscatter Diffraction of Aluminum Alloys. 2005 , 519-573	
28	Mechanical Alloying and Severe Plastic Deformation. 2007, 13-1-13-28	
27	Production of Materials Qualities by Means of Friction Stir Processing (FSP) and Its Practical Applications. 2009 , 50, 162-166	
26	Friction Stir Welding and Related Processes. 2010 , 241-303	
25	Manufacturing and Properties of Metal Based Composite Produced By Friction Stir Processing. 2012 , 30, 27-33	
24	Manufacturing of Nano-Surface AA7075 Composites by Friction Stir Processing. 2014 , 1417-1422	1
23	Friction Stir Processing of Cast Alloy 718. 505-511	1
22	Improvement of Mechanical Properties and Morphological Studies of Friction Stir Processed Composites. 2018 , 152-179	
21	Microstructural Evolution and Mechanical Properties of Aluminum Alloy 7075-T651 Processed by Friction Stir Processing. 2020 , 171-183	
20	Friction Stir Processing. 2020 , 75-102	1
19	Microstructural, mechanical and wear behavior of A7075 surface composite reinforced with WC nanoparticle through friction stir processing. 2022 , 276, 115476	0
18	Speculative Testament of Corrosive Behaviour of Aluminium Composite Welded by FSW. 2022 , 429-440	O

CITATION REPORT

17	A Review on Friction Stir Processing Over Other Surface Modification Processing Techniques of Magnesium Alloys.		O
16	Friction stir processing as a method of hardening cutting tools. 2022 , 2182, 012046		
15	New Trends in Friction Stir Processing: Rapid Cooling Review. 1		O
14	Evolution of Microstructure and Properties of Air-Cooled Friction-Stir-Processed 7075 Aluminum Alloy <i>Materials</i> , 2022 , 15,	3.5	O
13	Enhancement of mechanical and corrosion protection properties of different substrates after friction surfacing: A concise review. <i>Materials Today: Proceedings</i> , 2021 ,	1.4	
12	Technological Aspects of Producing Surface Composites by Friction Stir Processing A Review. <i>Journal of Composites Science</i> , 2021 , 5, 323	3	O
11	Effect of the Tool Pin Eccentricity and Cooling Rate on Microstructure, Mechanical Properties, Fretting Wear, and Corrosion Behavior of Friction Stir Processed AA6063 Alloy. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	О
10	Improvement of microstructure and fatigue performance of wire-arc additive manufactured 4043 aluminum alloy assisted by interlayer friction stir processing. <i>Journal of Materials Science and Technology</i> , 2022 ,	9.1	4
9	Good strength-plasticity compatibility of GNP/AZ31 composites fabricated by FSP: microstructural evolution and mechanical properties. 2022 ,		1
8	Microstructure evolution, deformation mechanism, and mechanical properties of biomedical TiZrNb medium entropy alloy processed using equal channel angular pressing. 2022 , 151, 107725		O
7	Parametric optimization of friction stir process for developing high strength and wear-resistant chromium reinforced NiAl bronze composite. 2022 , 9, 096516		О
6	Effect on microstructure and properties of LA103Z MgIIi alloy plate by multi-pass friction stir processing. 2022 , 20, 3985-3994		1
5	Parametric optimization of process parameters during friction stir processing of AA5083/(SiC-Gr) hybrid surface composite. 2022 ,		О
4	Recent progress in low-dimensional nanomaterials filled multifunctional metal matrix nanocomposites. 2023 , 132, 101034		O
3	Influence of Friction Stir Processing on the Mechanical and Microstructure Characterization of Single and Double V-Groove Tungsten Inert Gas Welded Dissimilar Aluminum Joints.		0
2	Effects of tricalcium phosphate-titanium nanoparticles on mechanical performance after friction stir processing on titanium alloys for dental applications. 2023 , 293, 116492		O
1	Current status on manufacturing routes to produce metal matrix composites: State-of-the-art. 2023 , 9, e13558		0