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## Friction stir welding and processing

DOI: 10.1016/j.mser.2005.07.001

Materials Science and Engineering Reports, 2005, 50, 1-78.

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**Version:** 2024-04-28

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2032	Superplastic behavior of micro-regions in two-pass friction stir processed 7075Al alloy. <b>2009</b> , 505, 70-78	61
2031	Synthesis of multi-walled CNT reinforced aluminium alloy composite via friction stir processing. <b>2009</b> , 507, 194-199	193
2030	Microstructural modification and ductility enhancement of surfaces modified by FSP in aluminium alloys. <b>2009</b> , 506, 16-22	71
2029	Microstructure and mechanical properties of friction stir welded AA6063/Al <sub>2</sub> O <sub>3</sub> metal matrix composites. <b>2009</b> , 518, 174-184	136
2028	Inhomogeneous microstructure and mechanical properties of friction stir processed NiAl bronze. <b>2009</b> , 524, 119-128	58
2027	Ball impact cladding of metals with dissimilar metallic foils. <b>2009</b> , 204, 125-130	19
2026	Microstructures and mechanical properties of Al/Al <sub>2</sub> O <sub>3</sub> surface nano-composite layer produced by friction stir processing. <b>2009</b> , 500, 84-91	291
2025	Numerical studies on controlling of process parameters in friction stir welding. <b>2009</b> , 209, 241-270	123
2024	Friction stir channeling: Characterization of the channels. <b>2009</b> , 209, 3696-3704	34

2023	An investigation of the peening effects on the residual stresses in friction stir welded 2195 and 7075 aluminum alloy joints. <b>2009</b> , 209, 4822-4829	43
2022	Joining of titanium to 304L stainless steel by friction welding. <b>2009</b> , 209, 5862-5870	133
2021	Some microstructural characterisations in a friction stir welded oxide dispersion strengthened ferritic steel alloy. <b>2009</b> , 386-388, 537-539	43
2020	Numerical studies on the effect of transverse speed in friction stir welding. <b>2009</b> , 30, 900-907	53
2019	Effect of welding parameters on mechanical and microstructural properties of dissimilar AA6082-AA2024 joints produced by friction stir welding. <b>2009</b> , 30, 609-616	152
2018	Influence of material characteristics on plastomechanics of the FSW process for T-joints. <b>2009</b> , 30, 2435-2445	38
2017	Selection of FSW tool pin profile, shoulder diameter and material for joining AZ31B magnesium alloy – An experimental approach. <b>2009</b> , 30, 2647-2656	165
2016	Microstructure and mechanical properties of friction stir welded joints in 2219-T6 aluminum alloy. <b>2009</b> , 30, 3460-3467	101
2015	Effect of welding speed on microstructural and mechanical properties of friction stir welded Inconel 600. <b>2009</b> , 30, 3972-3978	81
2014	Effect of anisotropy on fatigue properties of 2198 Al-Ti plates joined by friction stir welding. <b>2009</b> , 16, 1856-1865	37
2013	Development of grain structure during friction stir welding of pure titanium. <b>2009</b> , 57, 4519-4528	126
2012	Microstructural modification and mechanical property improvement in friction stir zone of thixo-molded AE42 Mg alloy. <b>2009</b> , 480, 340-346	31
2011	A metal matrix composite prepared from electrospun TiO <sub>2</sub> nanofibers and an Al 1100 alloy via friction stir processing. <b>2009</b> , 1, 987-91	14
2010	Residual stresses in AA7108 aluminium alloy sheets joined by friction stir welding. <b>2009</b> , 24, 301-309	12
2009	Friction stir welding of steels: process design through continuum based FEM model. <b>2009</b> , 14, 239-246	21
2008	Residual stress engineering in friction stir welds by roller tensioning. <b>2009</b> , 14, 185-192	79
2007	Applications of EBSD to Microstructural Control in Friction Stir Welding/Processing. <b>2009</b> , 291-300	3
2006	An Analysis of Strength and Ductility of Ultrafine Grained Al Alloys. <b>2009</b> , 633-634, 165-177	1

2005	Detailed Strain Field Analyses Of Fatigue Cracks In Friction Stir Welded Joints. <b>2009</b> , 619-642	2
2004	Partial recrystallization in the nugget zone of friction stir welded dual-phase CuZn alloy. <b>2009</b> , 89, 1505-1516	21
2003	Friction stir processing of 316L stainless steel plate. <b>2009</b> , 14, 197-201	45
2002	An Investigation of Friction During Friction Stir Welding of Metallic Materials. <b>2009</b> , 24, 438-445	62
2001	Friction stir welding of aluminium alloys. <b>2009</b> , 54, 49-93	782
2000	Repair welding process of friction stir welding groove defect. <b>2009</b> , 19, 563-567	37
1999	Microstructures and Mechanical Properties in Friction Stir Zone of Thixo-Molded AS41 Mg Alloy. <b>2009</b> , 50, 2378-2383	3
1998	Effects of tool rotating rate and pass number on pore structures of ADC12 porous aluminum fabricated by friction stir processing. <b>2009</b> , 59, 647-651	2
1997	Friction Stir Welding of Zr55Cu30Ni5Al10 Bulk Metallic Glass. <b>2009</b> , 50, 1300-1303	12
1996	Manufacture of Porous Aluminum Using Containing Gases Inside Aluminum Alloy Die Castings. <b>2009</b> , 73, 484-486	2
1995	Fabrication of Surface-Hybrid-MMCs Layer on Aluminum Plate by Friction Stir Processing and Its Wear Characteristics. <b>2009</b> , 50, 1824-1831	24
1994	Mechanical Properties of Friction-Stir-Welded Inconel 625 Alloy. <b>2009</b> , 50, 2498-2501	31
1993	Development of Fine-Grained Structure Caused by Friction Stir Welding Process of a ZK60A Magnesium Alloy. <b>2009</b> , 50, 610-617	16
1992	Evaluation of Grain Refinement and Mechanical Property on Friction Stir Welded Inconel 600. <b>2009</b> , 50, 832-836	15
1991	Manufacture of Porous Aluminum by Utilizing Friction Stir Processing. <b>2009</b> , 73, 131-133	7
1990	Microstructural Variation and Tensile Properties of a Cast 5083 Aluminum Plate via Friction Stir Processing. <b>2009</b> , 50, 2801-2807	6
1989	Foaming Conditions of Porous Aluminum in Fabrication of ADC12 Aluminum Alloy Die Castings by Friction Stir Processing. <b>2009</b> , 50, 2154-2159	30
1988	A contribution to a critical review of friction stir welding numerical simulation. <b>2009</b> , 4, 351-369	22

1987	Effect of Welding Parameters on Weld Formation and Mechanical Properties in Dissimilar Al Alloy Joints by FSW. <b>2010</b> , 51, 1319-1325	25
1986	Effects of Amount of Added Alumina and Holding Time on Manufacture of Porous Aluminum by Utilizing Friction Stir Processing. <b>2010</b> , 5, 517-525	5
1985	Effect of Preheating Temperature on ECAP Formability of AC4CH Aluminum Casting Alloy. <b>2010</b> , 51, 918-924	3
1984	Effects of Tool Rotating Rate and Pass Number on Pore Structure of A6061 Porous Aluminum Fabricated by Using Friction Stir Processing. <b>2010</b> , 51, 542-547	13
1983	Effect of preheating temperature on ECAP formability of AC4CH aluminum casting alloy. <b>2010</b> , 60, 288-293	
1982	Manufacturing of Functionally Graded Porous Aluminum of Dissimilar Aluminum Alloy. <b>2010</b> , 74, 285-287	8
1981	Fabrication of Various Types of ADC12 Aluminum Alloy Die Castings Containing Different Amount of Gases and Porous Aluminum Fabricated by Friction Stir Processing. <b>2010</b> , 74, 592-597	4
1980	Effect of Pin Shapes on Joint Characteristics of Friction Stir Spot Welded AA5J32 Sheet. <b>2010</b> , 51, 1028-1032	38
1979	Grain Orientation and Texture Evolution in Pure Titanium Lap Joint Produced by Friction Stir Welding. <b>2010</b> , 51, 2063-2068	8
1978	Mechanical Properties of Nanometric Al <sub>2</sub> O <sub>3</sub> Particulate-Reinforced Al-Al <sub>11</sub> Ce <sub>3</sub> Composites Produced by Friction Stir Processing. <b>2010</b> , 51, 933-938	14
1977	Lightweight Stiffened Panels Fabricated Using Emerging Fabrication Technologies: Fatigue Behaviour. <b>2010</b> , 151-172	2
1976	Experimental investigation of the influence of the FSW plunge processing parameters on the maximum generated force and torque. <b>2010</b> , 47, 201-215	63
1975	On the FSW of AA2024-T4 and AA7075-T6 T-joints: an industrial case study. <b>2010</b> , 48, 1149-1157	39
1974	Evaluation of joint interface of friction stir welding between dissimilar metals using HTS-SQUID gradiometer. <b>2010</b> , 470, 1524-1528	1
1973	Effects of heat input on tensile properties and fracture behavior of friction stir welded Mg <sub>92</sub> Al <sub>8</sub> Zn alloy. <b>2010</b> , 527, 708-714	109
1972	Tensile properties and strain-hardening behavior of double-sided arc welded and friction stir welded AZ31B magnesium alloy. <b>2010</b> , 527, 2951-2961	88
1971	Numerical analysis of the dwell phase in friction stir welding and comparison with experimental data. <b>2010</b> , 527, 4152-4160	26
1970	Investigation of superplasticity in friction stir processed 2219Al alloy. <b>2010</b> , 527, 4191-4196	22

1969	Tensile properties of a friction stir welded magnesium alloy: Effect of pin tool thread orientation and weld pitch. <b>2010</b> , 527, 6064-6075	113
1968	Investigation of the welding parameter dependent microstructure and mechanical properties of friction stir welded pure copper. <b>2010</b> , 527, 6879-6886	88
1967	AA8090 Al-Li Alloy FSW parameters to minimize defects and increase fatigue life. <b>2010</b> , 3, 1003-1006	24
1966	Effect of the $\mu/v$ ratio and sheet thickness on mechanical properties of magnesium alloy FSWED joints. <b>2010</b> , 3, 1007-1010	7
1965	A new friction stir welding based technique for corner fillet joints: experimental and numerical study. <b>2010</b> , 3, 1039-1042	14
1964	Friction stir welding using unthreaded tools: analysis of the flow. <b>2010</b> , 3, 1043-1046	6
1963	A study on mechanical characteristics of the friction stir welded A6005-T5 extrusion. <b>2010</b> , 11, 931-936	15
1962	Microstructural characterization of dissimilar friction stir welds between AA2219 and AA5083. <b>2010</b> , 63, 757-764	32
1961	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of a Cast-Magnesium-Bare Earth Alloy. <b>2010</b> , 41, 73-84	59
1960	Effect of Processing Parameters on Microstructure and Mechanical Properties of an Al-Al <sub>11</sub> Ce <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> In-Situ Composite Produced by Friction Stir Processing. <b>2010</b> , 41, 513-522	40
1959	Microstructure and Cyclic Deformation Behavior of a Friction-Stir-Welded 7075 Al Alloy. <b>2010</b> , 41, 957-971	79
1958	Specific Character of Material Flow in Near-Surface Layer during Friction Stir Processing of AZ31 Magnesium Alloy. <b>2010</b> , 41, 1016-1024	31
1957	X-Ray and Neutron Diffraction Measurements of Dislocation Density and Subgrain Size in a Friction-Stir-Welded Aluminum Alloy. <b>2010</b> , 41, 1210-1216	57
1956	Effect of Heat Input Conditions on Microstructure and Mechanical Properties of Friction-Stir-Welded Pure Copper. <b>2010</b> , 41, 2010-2021	64
1955	Microstructure and Low-Cycle Fatigue of a Friction-Stir-Welded 6061 Aluminum Alloy. <b>2010</b> , 41, 2626-2641	65
1954	Fabrication of Aluminum Foam/Dense Steel Composite by Friction Stir Welding. <b>2010</b> , 41, 2184-2186	20
1953	Global and Local Mechanical Properties and Microstructure of Friction Stir Welds with Dissimilar Materials and/or Thicknesses. <b>2010</b> , 41, 3365-3378	38
1952	Investigations on the Effects of the Tool Material, Geometry, and Tilt Angle on Friction Stir Welding of Pure Titanium. <b>2010</b> , 19, 955-962	48



1951	Thinning Behavior Simulations in Superplastic Forming of Friction Stir Processed Titanium 6Al-4V. <b>2010</b> , 19, 481-487	8
1950	Simulation of Tensile Behavior in Friction Stir Welded and Superplastically Formed-Titanium 6Al-4V alloy. <b>2010</b> , 19, 510-514	9
1949	Effect of process parameters on stir zone microstructure in Ti-6Al-4V friction stir welds. <b>2010</b> , 45, 39-45	29
1948	Strain path and microstructure evolution during severe deformation processing of an as-cast hypoeutectic Al-Bi alloy. <b>2010</b> , 45, 4613-4620	26
1947	Ti particle-reinforced surface layers in Al: Effect of particle size on microstructure, hardness and wear. <b>2010</b> , 61, 1126-1134	17
1946	Nickel particle embedded aluminium matrix composite with high ductility. <b>2010</b> , 64, 664-667	77
1945	Comprehensive analysis of minimum grain size in pure aluminum using friction stir processing. <b>2010</b> , 64, 1905-1908	40
1944	Contribution of grain boundary sliding in low-temperature superplasticity of ultrafine-grained aluminum alloys. <b>2010</b> , 62, 125-128	81
1943	Influence of thermo-mechanical parameters on texture and tensile behavior of friction stir processed Mg alloy. <b>2010</b> , 63, 1112-1115	61
1942	Microstructure and properties of magnesium AZ31B-aluminum 7075 explosively welded composite plate. <b>2010</b> , 527, 2241-2245	145
1941	Flow visualization and estimation of strain and strain-rate during friction stir process. <b>2010</b> , 527, 5130-5135	25
1940	Enhanced mechanical properties of friction stir welded dissimilar Al-Cu joint by intermetallic compounds. <b>2010</b> , 527, 5723-5727	231
1939	Twist channel angular pressing (TCAP) as a method for increasing the efficiency of SPD. <b>2010</b> , 527, 6386-6392	46
1938	Elastic-plastic stress/strain response of friction stir-welded titanium butt joints using moiré interferometry. <b>2010</b> , 48, 385-392	17
1937	Microstructural characteristics and mechanical properties of friction stir welded joints of Ti-6Al-4V titanium alloy. <b>2010</b> , 31, 1650-1655	74
1936	Friction stir processing: An effective technique to refine grain structure and enhance ductility. <b>2010</b> , 31, 1231-1236	84
1935	Effect of friction stir processing on corrosion resistance of aluminum-copper alloy gas tungsten arc welds. <b>2010</b> , 31, 1576-1580	20
1934	Microstructure, residual strain, and eigenstrain analysis of dissimilar friction stir welds. <b>2010</b> , 31, S121-S125	14

1933	Effect of rotation speed on microstructure and mechanical properties of Ti <sub>6</sub> Al <sub>4</sub> V friction stir welded joints. <b>2010</b> , 31, 2631-2636	93
1932	Establishing relationship between the base metal properties and friction stir welding process parameters of cast aluminium alloys. <b>2010</b> , 31, 4567-4576	32
1931	Tribological and microstructural evaluation of friction stir processed Al <sub>2024</sub> alloy. <b>2010</b> , 31, 4891-4896	57
1930	Joining of CP-Ti to 304 stainless steel using friction stir welding technique. <b>2010</b> , 31, 4800-4807	82
1929	Immersed friction stir welding of ultrafine grained accumulative roll-bonded Al alloy. <b>2010</b> , 31, 4786-4791	37
1928	Effect of tool rotating rate on foaming properties of porous aluminum fabricated by using friction stir processing. <b>2010</b> , 210, 288-292	97
1927	Understanding the material flow path of friction stir welding process using unthreaded tools. <b>2010</b> , 210, 603-609	138
1926	Friction model for friction stir welding process simulation: Calibrations from welding experiments. <b>2010</b> , 50, 143-155	161
1925	A novel approach for development of surface nanocomposite by friction stir processing. <b>2010</b> , 527, 6734-6740	101
1924	Microstructural and mechanical characteristics of AA7020-O Al plates joined by friction stir welding. <b>2010</b> , 527, 7424-7429	23
1923	Formation of nanograin in IF steels by friction stir processing. <b>2010</b> , 528, 309-313	43
1922	Fracture toughness of ISO 3183 X80M (API 5L X80) steel friction stir welds. <b>2010</b> , 77, 2937-2945	56
1921	Structure, microhardness and damping characteristics of Al matrix composite reinforced with AlCuFe or Ti using ultrasonic impact peening. <b>2010</b> , 204, 1590-1598	46
1920	Friction surfaced tool steel (H13) coatings on low carbon steel: A study on the effects of process parameters on coating characteristics and integrity. <b>2010</b> , 205, 232-242	56
1919	Influence of process duration on structure and chemistry of borided low carbon steel. <b>2010</b> , 205, 1578-1583	24
1918	Wear characteristics of surface-hybrid-MMCs layer fabricated on aluminum plate by friction stir processing. <b>2010</b> , 268, 1111-1121	181
1917	Texture development in near- $\beta$ Ti friction stir welds. <b>2010</b> , 58, 6452-6463	48
1916	A new fixture for FSW processes of titanium alloys. <b>2010</b> , 59, 271-274	31

1915	Multiscale modeling of ductile failure in metallic alloys. <b>2010</b> , 11, 326-345	44
1914	Modelling of plastic flow localisation and damage development in friction stir welded 6005A aluminium alloy using physics based strain hardening law. <b>2010</b> , 47, 2359-2370	43
1913	FRICION STIR WELDING OF AL-MG ALLOY OPTIMIZATION OF PROCESS PARAMETERS USING TAGUCHI METHOD. <b>2010</b> , 34, 37-44	17
1912	Visualization of Material Flow in a Refill Friction Stir Spot Welding Process Using Marker Materials. <b>2010</b> , 3, 628-651	5
1911	Positional dependence of material flow in friction stir welding: analysis of joint line remnant and its relevance to dissimilar metal welding. <b>2010</b> , 15, 305-311	33
1910	Friction stir welding of ductile iron and low carbon steel. <b>2010</b> , 15, 706-711	24
1909	Effect of joint line remnant on fatigue lifetime of friction stir welded Al-Cu alloy. <b>2010</b> , 15, 694-698	30
1908	Improved FE model for simulation of friction stir welding of different materials. <b>2010</b> , 15, 199-207	30
1907	Mechanical, micro-, and macrostructural analysis of AA7075-T6 fabricated by friction stir butt welding with different rotational speeds and tool pin profiles. <b>2010</b> , 224, 419-433	21
1906	Weld metal ductility and its influence on formability of tailor welded blanks. <b>2010</b> , 258-288	2
1905	Joining for lightweight vehicles. <b>2010</b> , 275-308	23
1904	Effect of Post Annealing Treatment on Nano-Structured Low Carbon Steel Sheets Processed by Constrained Groove Pressing. <b>2010</b> , 667-669, 1009-1014	1
1903	Using the Plunging and Welding Process Windows to Determine a FSW Means of Production. <b>2010</b> , 89-91, 697-702	
1902	Mechanical Properties and Fracture Behavior of Friction Stir Spot Welded AZ61 Magnesium Alloys. <b>2010</b> , 154-155, 498-507	1
1901	Fatigue Crack Growth Behavior of Friction Stir Welding of 6063-T5 Aluminum Alloys. <b>2010</b> , 146-147, 1498-1501	
1900	Friction Stir Welding of SiCp/Al Composite and 2024 Al Alloy. <b>2010</b> , 638-642, 1500-1505	14
1899	Effects of the Parameters of Friction Stir Processing on Silicon Particles and Hardness in Hypereutectic Al-Si Alloys. <b>2010</b> , 148-149, 1689-1694	
1898	Comparison of the Electrochemical Behaviors Among 5083/6082 Friction Stir Welding Dissimilar Weld and Parent Materials. <b>2010</b> , 139-141, 299-302	2

1897	The joint properties of dissimilar aluminum plates joined by friction stir welding. <b>2010</b> , 101, 692-699	8
1896	The Relation between the Plunge Pressure and the Mechanical Properties of Friction Stir Welded 3mm Thick AA6082-T651 Sheets. <b>2010</b> , 636-637, 578-584	1
1895	Friction Stir Welding of Aluminium Based Composites Reinforced with Al <sub>2</sub> O <sub>3</sub> Particles. <b>2010</b> , 638-642, 87-92	1
1894	Friction stir welding of magnesium alloys. <b>2010</b> , 274-305	8
1893	Laser welding of magnesium alloys. <b>2010</b> , 306-350	0
1892	Study on mechanical, micro-, and macrostructural characteristics of dissimilar friction stir welding of AA6061-T6 and AA7075-T6. <b>2010</b> , 224, 1854-1864	43
1891	FSW of Lap and T-Joints. <b>2010</b> , 125-149	2
1890	Characterization of exposures to airborne nanoscale particles during friction stir welding of aluminum. <b>2010</b> , 54, 486-503	23
1889	Yield Strength and Residual Stress Measurements on Friction-Stir-Welded Aluminum Alloys. <b>2010</b> , 47, 1570-1583	12
1888	The Effect of Traveling and Rotation Speeds on Mechanical Properties during Friction Stir Welding of Dissimilar Al Alloys. <b>2010</b> , 297-301, 590-595	8
1887	Mechanical and Microstructural Characterisation of Dissimilar Friction Stir Welded AA2024-T3 and AA7075-T6 Aluminium Alloys. <b>2010</b> , 638-642, 1221-1226	3
1886	Study of the Key Issues of Friction Stir Welding of Titanium Alloy. <b>2010</b> , 638-642, 1185-1190	9
1885	Assessment of FSW Welds Made of Aluminum Alloy AW7075-T651. <b>2010</b> , 165, 201-206	1
1884	Metallurgy and weld performance in friction stir welding. <b>2010</b> , 314-410	6
1883	Effect of Compliance and Travel Angle on Friction Stir Welding With Gaps. <b>2010</b> , 132,	33
1882	Investigation of friction stir welding process with emphasis on calculation of heat generated due to material stirring. <b>2010</b> , 15, 177-184	16
1881	Fatigue crack growth under a constant amplitude loading of Al-6061-T6 welds obtained by modified indirect electric arc technique. <b>2010</b> , 15, 514-521	13
1880	Study of friction stir joining of thin aluminium sheets in lap joint configuration. <b>2010</b> , 15, 70-75	59

1879	Friction stir welding of pure titanium lap joint. <b>2010</b> , 15, 428-432	20
1878	Control of weld composition when arc welding high strength aluminium alloys using multiple filler wires. <b>2010</b> , 15, 491-496	9
1877	Fatigue strength optimisation of friction stir welded A6005-T5 alloy sheets. <b>2010</b> , 15, 473-478	6
1876	High speed friction stir welding of aluminium alloys. <b>2010</b> , 15, 676-681	40
1875	Friction stir welding of dissimilar A319 and A356 aluminium cast alloys. <b>2010</b> , 15, 414-422	17
1874	A multi-objective optimization application in Friction Stir Welding: Considering thermo-mechanical aspects. <b>2010</b> ,	9
1873	A review on friction stir welding for aluminium alloys. <b>2010</b> ,	8
1872	Optimal Design of Friction Stir Welding Process to Improve Tensile Force of the Joint of A6005 Extrusion. <b>2010</b> , 25, 637-643	31
1871	Friction Stir Processing (FSP) of As-Cast AA5083 for Grain Refinement and Superplasticity. <b>2010</b> , 433, 135-140	7
1870	Heated Friction Stir Welding: An Experimental and Theoretical Investigation into How Preheating Influences Process Forces. <b>2010</b> , 25, 1283-1291	45
1869	Weldability and mechanical properties of dissimilar aluminum-copper lap joints made by friction stir welding. <b>2010</b> , 490, 652-655	191
1868	Microstructural evolution in friction stir welding of nanostructured ODS alloys. <b>2010</b> , 504, S460-S466	49
1867	Al-Ni intermetallic composites produced in situ by friction stir processing. <b>2010</b> , 503, 494-499	135
1866	Corrosion properties of friction stir processed cast NiAl bronze. <b>2010</b> , 52, 1610-1617	94
1865	Corrosion behaviour of investment cast and friction stir processed Ti-6Al-4V. <b>2010</b> , 52, 3062-3069	63
1864	Multi-physics simulation of friction stir welding process. <b>2010</b> , 27, 967-985	29
1863	Effect of welding speed on microstructure and mechanical properties of friction stir welded copper. <b>2010</b> , 31, 3937-3942	70
1862	Multiobjective Optimization of Friction Stir Welding Process Parameters on Aluminum Alloy AA 5083 Using Taguchi-Based Grey Relation Analysis. <b>2010</b> , 25, 1206-1212	110

1861	Design and Optimization of Friction Stir Welding Tool. <b>2010</b> , 25, 1199-1205	61
1860	Mechanical properties of underwater friction stir welded 2219 aluminum alloy. <b>2010</b> , 20, 1387-1391	98
1859	Semisolid joining of aluminum A356 alloy by partial remelting and mechanical stirring. <b>2010</b> , 20, 1792-1798	26
1858	Microstructural zones and tensile characteristics of friction stir welded joint of TC4 titanium alloy. <b>2010</b> , 20, 1873-1878	25
1857	Dissimilar friction stir welding between 5052 aluminum alloy and AZ31 magnesium alloy. <b>2010</b> , 20, s619-s623	88
1856	Effects of shoulder on interfacial bonding during friction stir lap welding of aluminum thin sheets using tool without pin. <b>2010</b> , 20, 2223-2228	24
1855	Microstructure Evolution during Friction Stir Welding of Aluminum Alloy AA2219. <b>2010</b> , 26, 747-753	69
1854	Electrochemical properties in a seawater environment of 5456-H116 aluminum alloy subjected to optimal friction stir processing. <b>2010</b> , T139, 014038	1
1853	Synergetic Effect of ECAP and Friction Stir Welding on Microstructure and Mechanical Properties of Aluminium Sheets. <b>2010</b> , 667-669, 505-510	
1852	Fully coupled thermomechanical finite element analysis of material evolution during friction-stir welding of AA5083. <b>2010</b> , 224, 609-625	52
1851	Process-microstructure-property correlations in Al-AA2199 friction stir welds. <b>2010</b> , 15, 522-527	13
1850	Thermo-Mechanical Investigations during Friction Stir Spot Welding (FSSW) of AA6082-T6. <b>2010</b> , 54, R134-R146	9
1849	Simulation of a Refill Friction Stir Spot Welding Process Using a Fully Coupled Thermo-Mechanical FEM Model. <b>2010</b> , 132,	29
1848	Failure mechanisms in friction stir welds. <b>2010</b> , 164-189	
1847	. <b>2010</b> , 10, 888-892	6
1846	A Study of the Effect of Tool Pin Profiles on Tensile Strength of Welded Joints Produced Using Friction Stir Welding Process. <b>2011</b> , 26, 1111-1116	61
1845	Optimization of Friction stir welding parameter for AA 5083 by radiography and ultrasonic technique. <b>2011</b> ,	4
1844	Microstructural characterisation of friction stir processed aluminium. <b>2011</b> , 27, 1163-1169	13

1843	Investigation of the effects of critical process parameters of friction stir welding of polyethylene. <b>2011</b> , 225, 1305-1310	30
1842	Effect of heat input on the electrical resistivity of dissimilar friction stir welded joints of aluminium and copper. <b>2011</b> ,	12
1841	Tool Design and Speed Parameters Effects on Microstructure and Tensile Strength of Friction Stir Welding (FSW) 5052 Al Alloys. <b>2011</b> , 110-116, 3165-3170	3
1840	The Extrinsic Influence of Tool Plunge Depth on Friction Stir Welding of an Aluminum Alloy. <b>2011</b> , 410, 206-215	1
1839	Directional Anisotropy in the Mechanical Behavior of Friction Stir Processed and Aged AZ91 Alloy. <b>2011</b> , 702-703, 64-67	4
1838	A Novel Way to Fabricate Carbon Nanotubes Reinforced Copper Matrix Composites by Friction Stir Processing. <b>2011</b> , 391-392, 524-529	6
1837	Solid-State Joining of Metal Matrix Composites: A Survey of Challenges and Potential Solutions. <b>2011</b> , 26, 636-648	50
1836	Residual stress, microstructure and microhardness measurements in AA7075-T6 FSW welded sheets. <b>2011</b> , 26, 1-11	11
1835	Effects of friction stir welding and post-weld annealing on nanostructured ferritic alloy. <b>2011</b> , 27, 724-728	23
1834	Novel artificial neural network model for evaluating hardness of stir zone of submerge friction stir processed Al 6061-T6 plate. <b>2011</b> , 27, 990-995	12
1833	Review: friction stir welding tools. <b>2011</b> , 16, 325-342	484
1832	Friction Stir Welding (FSW) of a Hardenable Alloy Steel in "Dry" and "Wet" Environments. <b>2011</b> , 59-64	1
1831	Evolution of Stir Zone Microstructure during FSP of Cast NiAl Bronze. <b>2011</b> , 89-95	3
1830	Characterization of Friction Stir Welded Sc-Modified Al-Zn-Mg-Cu Alloy Extrusions through Differential Scanning Calorimetry. <b>2011</b> , 131-138	1
1829	Microstructural and Mechanical Properties of Friction Stir Welding Joints of 6082-T6 with 6063-T6. <b>2011</b> , 229-236	5
1828	Evaluation of Microstructure and Mechanical Properties of Aluminum to Copper Friction Stir Butt Welds. <b>2011</b> , 253-264	6
1827	Friction Stir Processing as a Base Metal Preparation Technique for Modification of Fusion Weld Microstructures. <b>2011</b> , 323-331	2
1826	Towards Process Control of Friction Stir Welding for Different Aluminum Alloys. <b>2011</b> , 381-388	8

1825	Effect of Friction Stir Processing on Corrosion Behavior of AA5083 Aluminum Alloy. <b>2011</b> , 307-313	
1824	FSW of AA2139-T8 Butt joints for aeronautical applications. <b>2011</b> , 225, 87-101	2
1823	Friction stir processing and characterisation of A380 cast aluminium alloy. <b>2011</b> , 24, 357-362	4
1822	Friction stir welded structural materials: beyond Al-alloys. <b>2011</b> , 56, 1-48	342
1821	Friction Welding of Particle Reinforced Aluminium Based Composites. <b>2011</b> , 678, 85-93	2
1820	Modelling of Friction Stir Processing with in Process Cooling Using Computational Fluid Dynamics Analysis. <b>2011</b> , 99-105	7
1819	Finite Element Analysis of Materials Flow Behavior in Friction Stir Welding of 7075 Aluminum Alloy Plate. <b>2011</b> , 117-119, 1621-1624	1
1818	Temperature Distribution of Aluminum Alloys under Friction Stir Welding. <b>2011</b> , 264-265, 217-222	4
1817	Thermo-Mechanical Coupled Analysis of Deformation Behavior in Friction Stir Welding Process of Aluminum 7075 Plate with Conical Pin. <b>2011</b> , 338, 618-621	
1816	Finite Element Simulation of Linear Friction Welding. <b>2011</b> , 411, 126-129	5
1815	The Preliminary Study of the Welds between Mg and Al by Friction Stir Welding. <b>2011</b> , 291-294, 829-832	
1814	Fabrication of in situ Cu/SiC composites using multi-pass friction stir processing: Evaluation of microstructural, porosity, mechanical and electrical behavior. <b>2011</b> , 42, 1445-1453	119
1813	Corrosion protection of AA7449-T7951 friction stir welds by laser surface melting with an Excimer laser. <b>2011</b> , 53, 3956-3969	24
1812	Enhanced mechanical properties of Mg-Al-Zr casting via friction stir processing. <b>2011</b> , 509, 2879-2884	79
1811	Effect of Rotation Rate on Microstructures and Mechanical Properties of FSW Mg-Zn-Y-Zr Alloy Joints. <b>2011</b> , 27, 1157-1164	23
1810	The Role of Tool Design in Influencing the Mechanism for the Formation of Friction Stir Welds in Aluminum Alloy 7020. <b>2011</b> , 26, 915-921	24
1809	Soldagem por ponto no estado sólido de ligas leves. <b>2011</b> , 16, 301-307	1
1808	Effect of Heat Index on Microstructure and Mechanical Behavior of Friction Stir Processed AZ31. <b>2011</b> , 205-209	2



1807	Microstructure and Mechanical Properties of Mg-1.7Y-1.2Zn Sheet Processed by Hot Rolling and Friction Stir Processing. <b>2011</b> , 565-570	
1806	Influences of Alloying Elements on Grain Sizes in Friction Stir Processed Pure Aluminum and Aluminum Alloys. <b>2011</b> , 677-684	
1805	Stirring Phenomenon of Aluminum Sheets by Ultrasonic Vibrations and Its Application to Clinching. <b>2011</b> , 5, 810-824	10
1804	Manufacturing of Sandwich Panel with Porous Aluminum/Dense Steel Plate by Friction Stir Processing Route. <b>2011</b> , 77, 1013-1016	1
1803	Manufacturing of Porous Aluminum Component by Using Die. <b>2011</b> , 77, 1017-1020	
1802	Manufacturing of A1050-A6061 Functionally Graded Porous Aluminum. <b>2011</b> , 77, 1021-1024	
1801	Correlation between Microstructural Stability and Tensile Properties of FSWed Al-Mg-Mn Cast Plate during Subsequent Thermal Exposure. <b>2011</b> , 52, 1667-1673	3
1800	Effects of Amounts of Blowing Agent and Contained Gases on Porosity and Pore Structure of Porous Aluminum Fabricated from Aluminum Alloy Die Casting by Friction Stir Processing Route. <b>2011</b> , 52, 1263-1268	16
1799	Effect of Eutectic Si Particle Morphology on ECAP Formability and Mechanical Properties of AC4CH Aluminum Casting Alloys. <b>2011</b> , 52, 2045-2051	6
1798	Liquation Cracking of Dissimilar Aluminum Alloys during Friction Stir Welding. <b>2011</b> , 52, 254-257	6
1797	Superplastic Behavior of Friction Stir Processed ZK60 Magnesium Alloy. <b>2011</b> , 52, 2278-2281	11
1796	Effect of welding parameters on microstructure and mechanical properties of AA7075-T6 friction stir welded joints. <b>2011</b> , 34, 877-886	21
1795	In-Plane Compression Response of Extruded Aluminum 6061-T6 Corrugated Core Sandwich Columns. <b>2011</b> , 94, s76-s84	13
1794	The effects of friction-stir process parameters on the fabrication of Ti/SiC nano-composite surface layer. <b>2011</b> , 206, 1372-1381	91
1793	Nanomechanical properties of friction stir welded AA6082-T6 aluminum alloy. <b>2011</b> , 176, 1585-1589	33
1792	Effect of Mg content on the minimum grain size of Al-Mg alloys obtained by friction stir processing. <b>2011</b> , 64, 355-358	73
1791	High speed pounding: A novel technique for the preparation of a thick surface layer with a hardness gradient distribution on Hadfield steel. <b>2011</b> , 64, 560-563	15
1790	Realization of exceptionally high elongation at high strain rate in a friction stir processed Al-Zn-Mg-Cu alloy with the presence of liquid phase. <b>2011</b> , 64, 572-575	35

1789	Critical grain size for change in deformation behavior in ultrafine grained Al <sub>3</sub> Mg <sub>2</sub> Sc alloy. <b>2011</b> , 64, 576-579	49
1788	Effect of texture on the mechanical behavior of ultrafine grained magnesium alloy. <b>2011</b> , 64, 580-583	93
1787	Achieving friction stir welded pure copper joints with nearly equal strength to the parent metal via additional rapid cooling. <b>2011</b> , 64, 1051-1054	78
1786	Achieving high strain rate superplasticity in Mg <sub>92</sub> Zn <sub>8</sub> alloy produced by friction stir processing. <b>2011</b> , 65, 335-338	63
1785	Analysis of the effect of friction stir welding on the minimum creep rate of an Mg <sub>80</sub> Al <sub>20</sub> Zn alloy. <b>2011</b> , 65, 626-629	7
1784	Effect of the surface preparation techniques on the EBSD analysis of a friction stir welded AA1100-B4C metal matrix composite. <b>2011</b> , 62, 865-877	61
1783	Effect of 0.5wt.% hydrogen addition on microstructural evolution of Ti <sub>60</sub> Al <sub>40</sub> V alloy in the friction stir welding and post-weld dehydrogenation process. <b>2011</b> , 62, 1036-1041	13
1782	Metallurgical characterization of pulsed current gas tungsten arc, friction stir and laser beam welded AZ31B magnesium alloy joints. <b>2011</b> , 125, 686-697	8
1781	Effect of post-weld heat treatment on the microstructure and plastic deformation behavior of friction stir welded 2024. <b>2011</b> , 32, 5055-5060	54
1780	Microstructural aspects and mechanical properties of friction stir welded AA2024-T3 aluminium alloy sheet. <b>2011</b> , 32, 4684-4688	41
1779	In situ Al <sub>3</sub> Ti and Al <sub>2</sub> O <sub>3</sub> nanoparticles reinforced Al composites produced by friction stir processing in an Al-TiO <sub>2</sub> system. <b>2011</b> , 65, 2070-2072	77
1778	Effect of Process Parameters on Microstructure and Mechanical Properties in Friction Stir Welding of Aluminum Alloy. <b>2011</b> , 64, 325-330	21
1777	Structural response of superaustenitic stainless steel to friction stir welding. <b>2011</b> , 59, 5472-5481	89
1776	Friction stir spot welding of single-crystal austenitic stainless steel. <b>2011</b> , 59, 7439-7449	57
1775	The effect of friction stir processing on the microstructure and mechanical properties of equal channel angular pressed 5052Al alloy sheet. <b>2011</b> , 46, 5527-5533	14
1774	Coupled thermo-mechanical model based comparison of friction stir welding processes of AA2024-T3 in different thicknesses. <b>2011</b> , 46, 5815-5821	47
1773	Application of electromagnetic impact technique for welding copper-to-stainless steel sheets. <b>2011</b> , 54, 949-955	32
1772	Electrical conductivity field analysis for evaluation of FSW joints in AA6013 and AA7075 alloys. <b>2011</b> , 211, 174-180	30

1771	Effect of tool design and process parameters on properties of Al alloy 6016 friction stir spot welds. <b>2011</b> , 211, 972-977	110
1770	Development of nanocrystalline structure in Cu during friction stir processing (FSP). <b>2011</b> , 528, 5458-5464	65
1769	The effect of SiC particles on the microstructure and mechanical properties of friction stir welded pure copper joints. <b>2011</b> , 528, 5470-5475	122
1768	Experimental study of electron beam welding of magnesium alloys. <b>2011</b> , 30, 364-369	2
1767	Optimization of friction stir welding with the various welding parameters for Al-Mg alloys. <b>2011</b> , 30, 628-632	5
1766	The Mechanism of Grain Coarsening in Friction-Stir-Welded AA5083 after Heat Treatment. <b>2011</b> , 42, 488-507	37
1765	Microstructure Evolution during Friction Stir Welding of Mill-Annealed Ti-6Al-4V. <b>2011</b> , 42, 745-762	58
1764	Effect of Alclad Layer on Material Flow and Defect Formation in Friction-Stir-Welded 2024 Aluminum Alloy. <b>2011</b> , 42, 1717-1726	39
1763	Effect of Multiple-Pass Friction Stir Processing Overlapping on Microstructure and Mechanical Properties of As-Cast NiAl Bronze. <b>2011</b> , 42, 2125-2135	18
1762	Microstructural Evolution in Ti-5111 Friction Stir Welds. <b>2011</b> , 42, 2312-2322	17
1761	The Effect of Concurrent Straining on Phase Transformations in NiAl Bronze During the Friction Stir Processing Thermomechanical Cycle. <b>2011</b> , 42, 2420-2430	14
1760	Friction Stir Brazing: a Novel Process for Fabricating Al/Steel Layered Composite and for Dissimilar Joining of Al to Steel. <b>2011</b> , 42, 2850-2861	75
1759	A Transient Thermal Model for Friction Stir Weld. Part I: The Model. <b>2011</b> , 42, 3218-3228	58
1758	A Transient Thermal Model for Friction Stir Weld. Part II: Effects of Weld Conditions. <b>2011</b> , 42, 3229-3239	35
1757	Fabrication of A1050-A6061 Functionally Graded Aluminum Foam by Friction Stir Processing Route. <b>2011</b> , 42, 3585-3589	30
1756	Tensile and Impact Toughness Properties of Gas Tungsten Arc Welded and Friction Stir Welded Interstitial Free Steel Joints. <b>2011</b> , 20, 82-89	12
1755	Development of a Robust and Cost-Effective Friction Stir Welding Process for Use in Advanced Military Vehicles. <b>2011</b> , 20, 11-23	32
1754	Mechanical Properties and Welding Power of Friction Stirred AA2024-T35 Joints. <b>2011</b> , 20, 839-845	15

1753	Computational Investigation of Hardness Evolution During Friction-Stir Welding of AA5083 and AA2139 Aluminum Alloys. <b>2011</b> , 20, 1097-1108	54
1752	Homogeneity of Mechanical Properties of Underwater Friction Stir Welded 2219-T6 Aluminum Alloy. <b>2011</b> , 20, 1419-1422	40
1751	Effects of SiC Particle Size and Process Parameters on the Microstructure and Hardness of AZ91/SiC Composite Layer Fabricated by FSP. <b>2011</b> , 20, 1554-1562	63
1750	Particle-reinforced aluminum matrix composites produced from powder mixtures via friction stir processing. <b>2011</b> , 71, 693-698	105
1749	Microstructure and corrosion properties of diode laser melted friction stir weld of aluminum alloy 2024 T351. <b>2011</b> , 257, 3985-3997	52
1748	Macro and microscopic observations of fatigue crack growth in friction stir welded aluminum joints. <b>2011</b> , 78, 930-943	19
1747	Characterization of AZ91/alumina nanocomposite produced by FSP. <b>2011</b> , 528, 2431-2440	133
1746	Friction stir processing of direct metal deposited copper-nickel 70/30. <b>2011</b> , 528, 3289-3294	27
1745	Dependence of Zener parameter on the nanograins formed during friction stir processing of interstitial free steels. <b>2011</b> , 528, 4325-4330	43
1744	Effect of friction stir processing (FSP) on microstructure and properties of Al <sub>2</sub> O <sub>3</sub> /TiC in situ composite. <b>2011</b> , 528, 4732-4739	168
1743	The annealing phenomena and thermal stability of severely deformed steel sheet. <b>2011</b> , 528, 5212-5218	49
1742	Microstructural, mechanical and wear behavior of A390/graphite and A390/Al <sub>2</sub> O <sub>3</sub> surface composites fabricated using FSP. <b>2011</b> , 528, 5741-5746	72
1741	Effect of overlapping direction in multipass friction stir processing. <b>2011</b> , 528, 5592-5599	51
1740	A metallurgical and mechanical study on dissimilar Friction Stir welding of aluminum 1050 to brass (CuZn30). <b>2011</b> , 528, 7093-7102	91
1739	Microstructure and properties of friction stir welded high strength Fe-6wt%Ni alloy. <b>2011</b> , 528, 7768-7773	26
1738	Process forces during friction stir channeling in an aluminum alloy. <b>2011</b> , 211, 305-311	45
1737	Functionally graded materials produced by friction stir processing. <b>2011</b> , 211, 1659-1668	102
1736	The microstructure and mechanical properties of friction stir welded Al-Mg alloy in as welded and heat treated conditions. <b>2011</b> , 32, 682-687	103

1735	Development of high strength, high conductivity copper by friction stir processing. <b>2011</b> , 32, 911-916	68
1734	Effect of welding speed on microstructures and mechanical properties of underwater friction stir welded 2219 aluminum alloy. <b>2011</b> , 32, 1548-1553	118
1733	Microstructure and microtextural studies of friction stir welded aluminium alloy 5052. <b>2011</b> , 32, 1657-1666	58
1732	Development of ultrafine-grained Al 6063 alloy by cryorolling with the optimized initial heat treatment conditions. <b>2011</b> , 32, 2172-2180	56
1731	Predicting residual distortion of aluminum alloy stiffened sheet after friction stir welding by numerical simulation. <b>2011</b> , 32, 2284-2291	55
1730	Dissimilar lap joining of 304 stainless steel to CP-Ti employing friction stir welding. <b>2011</b> , 32, 1824-1832	49
1729	Post-welding formability of AZ31 magnesium alloy. <b>2011</b> , 32, 2988-2991	10
1728	Microstructural and mechanical properties of friction stir welded Cu <sup>60</sup> Zn brass alloy at various feed speeds: Influence of stir bands. <b>2011</b> , 32, 2749-2755	40
1727	Microstructure and tribological performance of an aluminium alloy based hybrid composite produced by friction stir processing. <b>2011</b> , 32, 2727-2733	169
1726	Mechanical properties evolution during post-welding-heat treatments of double-lap Friction Stir Welded joints. <b>2011</b> , 32, 3465-3475	27
1725	Development of ultrafine grained high strength age hardenable Al 7075 alloy by cryorolling. <b>2011</b> , 32, 3150-3160	78
1724	The investigation of abnormal particle-coarsening phenomena in friction stir repair weld of 2219-T6 aluminum alloy. <b>2011</b> , 32, 3796-3802	30
1723	Comparison of corrosion behaviour of friction stir processed and laser melted AA 2219 aluminium alloy. <b>2011</b> , 32, 4502-4508	34
1722	Microstructure and mechanical properties as a function of rotation speed in underwater friction stir welded aluminum alloy joints. <b>2011</b> , 32, 4402-4407	108
1721	Fabrication of 5052Al/Al <sub>2</sub> O <sub>3</sub> nanoceramic particle reinforced composite via friction stir processing route. <b>2011</b> , 32, 4164-4172	153
1720	Processing, microstructure and mechanical properties of nickel particles embedded aluminium matrix composite. <b>2011</b> , 528, 1326-1333	96
1719	Investigation of mechanical properties of Cu/SiC composite fabricated by FSP: Effect of SiC particles size and volume fraction. <b>2011</b> , 528, 1740-1749	216
1718	Effect of friction stir welding parameters on the microstructure and mechanical properties of the dissimilar Al <sup>70</sup> Ti joints. <b>2011</b> , 528, 4683-4689	253

1717	Microstructure and mechanical behavior of friction stir processed ultrafine grained Al-Mg-Sc alloy. <b>2011</b> , 528, 5883-5887	69
1716	Mechanical and Microstructural Characterization of Al-5083/St-12 lap joints made by friction stir welding. <b>2011</b> , 10, 3297-3303	44
1715	Wear assessment of Al/Al <sub>2</sub> O <sub>3</sub> nano-composite surface layer produced using friction stir processing. <b>2011</b> , 270, 403-412	104
1714	Impact of Selected FSW Process Parameters on Mechanical Properties of 6082-T6 Aluminium Alloy Butt Joints. <b>2011</b> , 56, 965-973	11
1713	The effects of tool rotation speed and traverse speed on friction stir welding of AISI 304 austenitic stainless steel. <b>2011</b> , 102, 420-428	7
1712	Anodisation of friction stir welds in AA 5052-O alloy. <b>2011</b> , 16, 385-391	
1711	Texture development in friction stir welds. <b>2011</b> , 16, 288-294	179
1710	Softening behaviour of friction stir welded Al 6061-T6 and Mg AZ31B alloys. <b>2011</b> , 16, 267-272	28
1709	Achieving high property friction stir welded aluminium/copper lap joint at low heat input. <b>2011</b> , 16, 657-661	58
1708	Friction stir welding of precipitation strengthened aluminium alloys: scope and challenges. <b>2011</b> , 16, 343-347	30
1707	New technique of filling friction stir welding. <b>2011</b> , 16, 497-501	47
1706	Novel spot friction stir welding of 6061 and 5052 Al alloys. <b>2011</b> , 16, 605-612	29
1705	Influence of weld geometry and mismatch on formability of aluminium tailor welded blanks: numerical and experimental analysis. <b>2011</b> , 16, 662-668	13
1704	Joining of aluminium and its alloys. <b>2011</b> , 607-654	6
1703	Microstructure and mechanical properties of friction stir welded particulate reinforced AA2124/SiC/25 $\mu$ m composite. <b>2011</b> , 45, 2237-2245	41
1702	Texture and Microstructure Evolution in Friction Stir Welded Cu-Al Sheets Characterized by EBSD. <b>2011</b> , 702-703, 574-577	4
1701	Texture Development during Friction Stir Welding of Magnesium Alloys. <b>2011</b> , 702-703, 43-47	1
1700	Analysis of the Asymmetric Roll Bonding Process by Means of the Slab Method. <b>2011</b> , 704-705, 1322-1327	

1699	On the Conflicts in the Experimental Results Concerning the Mechanical Properties of Ultra-Fine Grained and Nanostructured Materials: Effects of Processing Routes and Experimental Conditions. <b>2011</b> , 683, 3-54	4
1698	Effect of Tool pin Profile and Axial Force on Tensile Behavior in Friction Stir Welding of Dissimilar Aluminum Alloys. <b>2011</b> , 415-417, 1140-1146	1
1697	Formability Evaluation of FSW Blanks Made of Aluminum Sheet: Influence of Welding Speed and Tool Rotation Speed. <b>2011</b> , 410, 287-290	6
1696	The Effects of Heat Treatment and Cold Working on the Microstructure of Aluminum Alloys Welded by Friction Stir Welding (FSW) Technique. <b>2011</b> , 409, 287-292	1
1695	Friction Stir Processing for the Modification of Laser Claded Microstructure. <b>2011</b> , 311-313, 2336-2339	1
1694	Tensile Properties and Strain Hardening Behavior of a Friction Stir Welded AA2219 Al Alloy. <b>2011</b> , 291-294, 833-840	5
1693	Characterization of Friction Stir Welded Joints in TA15 Titanium Alloy Plates. <b>2011</b> , 138-139, 852-857	
1692	Neutron diffraction measurements of residual stresses in friction stir welding: a review. <b>2011</b> , 16, 23-32	53
1691	Visual observation of effect of tilting tool on forging action during FSW of aluminium sheet. <b>2011</b> , 16, 87-91	14
1690	Tailor made blanks for the aerospace industry. <b>2011</b> , 181-201	1
1689	Effect of rotational speeds on microstructure and mechanical properties of friction stir-welded 7075-T6 aluminium alloy. <b>2011</b> , 225, 1761-1773	18
1688	MICROSTRUCTURAL PROPERTIES AND PHASE CONSTITUENTS OF 5A06 ALUMINIUM MATRIX SURFACE COMPOSITE FABRICATED BY FRICTION STIR PROCESSING. <b>2011</b> , 18, 183-188	0
1687	Influence of Post Weld Heat Treatment on Microstructure and Mechanical Properties of Friction Stir-Welded 2014Al-T6 Alloy. <b>2011</b> , 409, 299-304	4
1686	Fuzzy modelling using a new compact fuzzy system: A special application to the prediction of the mechanical properties of alloy steels. <b>2011</b> ,	2
1685	Toward Automation of Friction Stir Welding Through Temperature Measurement and Closed-Loop Control. <b>2011</b> , 133,	31
1684	Weld zone representation during the formability prediction of friction stir welded blanks with similar thickness sheets. <b>2011</b> , 46, 456-477	6
1683	Adaptive torque control of friction stir welding for the purpose of estimating tool wear. <b>2011</b> , 225, 1293-1303	9
1682	Friction stir welding of steels. <b>2011</b> , 25, 260-273	10

1681	Hydrogen generation for sensing and control in submerged friction stir welding. <b>2012</b> , 226, 72-75	1
1680	Experimental Analysis of the Influence of Process Parameters on Residual Stress in AA2024-T3 Friction Stir Welds. <b>2012</b> , 504-506, 753-758	11
1679	Characterization of Friction Modified Processing â A Novel Tool for Enhancing Surface Properties in Cast Aluminium Alloys. <b>2012</b> , 504-506, 1231-1236	9
1678	Evaluation of Texture Developed in High-Temperature $\beta$ Phase during Friction Stir Welding of Ti-6Al-4V. <b>2012</b> , 508, 106-111	4
1677	Comparison of Different Residual Stress Models of FSW Butt Joints for Thin Aluminum Alloy Plates. <b>2012</b> , 463-464, 642-646	
1676	Modeling Induced Flow Anisotropy and Phase Transformations in Air Hardening Steels. <b>2012</b> , 504-506, 443-448	
1675	The Influence of Friction Stir Welding Process Idealization on Residual Stress and Distortion Predictions for Future Airframe Assembly Simulations. <b>2012</b> , 134,	20
1674	Surface Improvement by Overlapping in Multipass FSP. <b>2012</b> , 730-732, 865-870	
1673	Superplastic Forming of Friction Stir Processed Magnesium Alloys for Aeronautical Applications: A Modeling Approach. <b>2012</b> , 735, 180-191	7
1672	Investigation of Microstructure and Mechanical Properties of Friction Stir Lap Jointed Ni Base Superalloy. <b>2012</b> , 724, 481-485	
1671	The Organization and Microhardness of the Coating of Aluminum Alloy after FSP. <b>2012</b> , 472-475, 2922-2925	
1670	New technique of self-refilling friction stir welding to repair keyhole. <b>2012</b> , 17, 649-655	33
1669	Friction Stir Processing (FSP) of Cast Metals: Processing - Microstructure - Property Relationships. <b>2012</b> , 706-709, 194-201	4
1668	Influence of Shoulder Diameter on Mechanical Response and Microstructure of FSW Welded 1050 Al-Alloy. <b>2012</b> , 57,	10
1667	Wear Assessment of Ti/SiC Surface Nano-Composite Layer and its Associated CP-Ti Substrate. <b>2012</b> , 445, 595-600	2
1666	Fatigue Crack Growth on FSW AA2024-T3 Aluminum Joints. <b>2012</b> , 498, 126-138	2
1665	Effect of Water Cooling on Grain Structures and General Mechanical Properties of 2219-T6 Friction Stir Welded Joint. <b>2012</b> , 706-709, 2986-2991	
1664	Study of hybrid welding repair process of friction stir welding groove defect. <b>2012</b> , 17, 169-173	8



1663	Characterisation of welded joints produced by FSW in AA 1100âB4C metal matrix composites. <b>2012</b> , 17, 85-91	23
1662	Effect of tool travel and rotation speeds on weld zone defects and joint strength of aluminium steel lap joints made by friction stir welding. <b>2012</b> , 17, 162-167	65
1661	High strength lap joint of aluminium and stainless steels fabricated by friction stir welding with cutting pin. <b>2012</b> , 17, 196-201	48
1660	Interface behaviours and mechanical properties of filling friction stir weld joining AA 2219. <b>2012</b> , 17, 225-230	36
1659	Friction stir welding of multilayered steel. <b>2012</b> , 17, 244-253	15
1658	Study of top sheet thinning during friction stir lap welding of AZ31 magnesium alloy. <b>2012</b> , 17, 375-380	23
1657	New technique of in situ rolling friction stir welding. <b>2012</b> , 17, 636-642	11
1656	Knowledge discovery for friction stir welding via data driven approaches. <b>2012</b> , 17, 681-693	8
1655	Investigation on friction stir lap welding of aluminium to aluminium clad steel sheets. <b>2012</b> , 17, 231-236	11
1654	FABRICATION OF TI/SIC SURFACE NANO-COMPOSITE LAYER BY FRICTION STIR PROCESSING. <b>2012</b> , 05, 367-374	5
1653	Joint properties of tilted angles of spin for 6061 aluminum alloys in friction stir welded experiments. <b>2012</b> ,	1
1652	Friction stir welding parameters optimization of heterogeneous tailored welded blank sheets of aluminium alloys 6061 and 5083 using response surface methodology. <b>2012</b> , 226, 2013-2022	18
1651	Surface Modification of Steels Using Friction Stir Surfacing. <b>2012</b> , 710, 258-263	8
1650	Knowledge discovery for friction stir welding via data driven approaches. <b>2012</b> , 17, 672-680	8
1649	Residual stress characterization in 12%-Cr steel friction stir welds by neutron diffraction. <b>2012</b> , 47, 203-213	11
1648	Corrosion protection of AA2024-T351 friction stir welds by laser surface melting with Excimer laser. <b>2012</b> , 47, 188-202	8
1647	Effect of Root Flaw on Tensile Behavior of Friction Stir Welded A6061-T6 Aluminum Alloy. <b>2012</b> , 482-484, 1343-1349	0
1646	Quality of Interfaces in Cu/Al Dissimilar Friction-Stirred Welds. <b>2012</b> , 706-709, 959-964	8

1645	Effects of pin diameter on microstructures and mechanical properties of friction stir spot welded AZ31B magnesium alloy joints. <b>2012</b> , 17, 357-363	9
1644	Predictions of tool forces in friction stir welding of AZ91 magnesium alloy. <b>2012</b> , 17, 495-500	18
1643	Periodic variation of torque and its relations to interfacial sticking and slipping during friction stir welding. <b>2012</b> , 17, 338-341	31
1642	Influences of welding parameters on mechanical properties of AZ31 friction stir spot welds. <b>2012</b> , 17, 304-308	2
1641	Effects of Tool Geometry on Hardened Layer of Friction Stir Processed Cast Iron. <b>2012</b> , 53, 1952-1955	3
1640	Effects of Porosity and Pore Structure on Compression Properties of Blowing-Agent-Free Aluminum Foams Fabricated from Aluminum Alloy Die Castings. <b>2012</b> , 53, 1515-1520	17
1639	Thermal stability of friction stir processed ultrafine grained AlMgSc alloy. <b>2012</b> , 74, 1-10	30
1638	Relationship between material flow and abnormal grain growth in friction-stir welds. <b>2012</b> , 67, 983-986	35
1637	Friction stir welding of aluminum alloy with varying tool geometry and process parameters. <b>2012</b> , 226, 641-648	33
1636	Heterogeneous Friction Stir Welding: Improved Properties in Dissimilar Aluminum Alloy Joints through Insertion of Copper Coupled with External Heating. <b>2012</b> , 27, 1429-1436	8
1635	Structure and mechanical properties of 1570C alloy welds produced by friction stir welding. <b>2012</b> , 2012, 821-825	1
1634	Interface characteristic of friction stir welding lap joints of Ti/Al dissimilar alloys. <b>2012</b> , 22, 299-304	71
1633	Correlation between welding and hardening parameters of friction stir welded joints of 2017 aluminum alloy. <b>2012</b> , 22, 1064-1072	4
1632	Microstructure and Mechanical Properties of Friction Stir Lap Welded Aluminum Alloy AA2014. <b>2012</b> , 28, 414-426	76
1631	Automation of Friction Stir Welding Process to Join Aluminum Matrix Composites by Optimization. <b>2012</b> , 38, 105-110	9
1630	Prediction and Optimization of Wear Resistance of Friction Stir Welded Dissimilar Aluminum Alloy. <b>2012</b> , 38, 578-584	17
1629	Investigation on Effect of Tool Forces and Joint Defects During FSW of Polypropylene Plate. <b>2012</b> , 38, 3927-3940	20
1628	A systematic method to identify the space group from PED and CBED patterns part II--practical examples. <b>2012</b> , 121, 61-71	10

1627	Some Investigations on Friction Stir Processed Zone of AZ91 Alloy. <b>2012</b> , 65, 735-739	11
1626	Characteristics and Formation Mechanisms of Welding Defects in Underwater Friction Stir Welded Aluminum Alloy. <b>2012</b> , 1, 269-281	29
1625	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of Cast AZ31 Magnesium Alloy. <b>2012</b> , 41, 1522-1526	29
1624	Investigation of Vibration Assisted Friction Stir Welding. <b>2012</b> , 504-506, 741-746	9
1623	Mechanical Properties, Corrosion Resistance, and Microstructural Changes during Friction Stir Processing of 5083 Aluminum Rolled Plates. <b>2012</b> , 27, 636-640	97
1622	Characterisation of friction stir welded 7042-T6 extrusions through differential scanning calorimetry. <b>2012</b> , 17, 42-48	12
1621	Microstructure and Mechanical Properties of Cu-Cr-Zr Alloy by Friction Stir Welding. <b>2012</b> , 602-604, 608-611	0
1620	Modelling of entire friction stir welding process by explicit finite element method. <b>2012</b> , 28, 812-817	25
1619	Microstructure and tensile behavior of a friction stir processed magnesium alloy. <b>2012</b> , 60, 5079-5088	62
1618	Friction stir welding of dissimilar aluminum alloys AA2219 to AA5083 – Optimization of process parameters using Taguchi technique. <b>2012</b> , 42, 1-7	183
1617	Microstructural characteristics and mechanical properties of non-combustive Mg-Al-Zn magnesium alloy friction stir welded joints. <b>2012</b> , 42, 505-512	30
1616	Influence of the microstructural changes and induced residual stresses on tensile properties of wrought magnesium alloy friction stir welds. <b>2012</b> , 551, 288-292	41
1615	Microstructure evolution and mechanical properties of dissimilar friction stir welded joints between AA1100-B4C MMC and AA6063 alloy. <b>2012</b> , 553, 149-156	47
1614	Effects of grain size on the corrosion resistance of wrought magnesium alloys containing neodymium. <b>2012</b> , 58, 145-151	280
1613	Cellular automata finite element (CAFE) model to predict the forming of friction stir welded blanks. <b>2012</b> , 58, 87-100	41
1612	Eurocode 9 to estimate the fatigue life of friction stir welded aluminium panels. <b>2012</b> , 45, 307-313	5
1611	Different stages in the continuous microstructural evolution of copper deformed to ultrahigh plastic strains. <b>2012</b> , 67, 1003-1006	10
1610	Multipass Friction-Stir Processing and its Effect on Mechanical Properties of Aluminum Alloy 5086. <b>2012</b> , 43, 4311-4319	33

1609	Super-Strong, Super-Modulus Materials. <b>2012</b> , 467-505	3
1608	Composite fabrication using friction stir processing—review. <b>2012</b> , 61, 1043-1055	167
1607	On the role of cooling and tool rotational direction on microstructure and mechanical properties of friction stir processed AZ91. <b>2012</b> , 63, 987-997	53
1606	Fabrication of SiCp/AA5083 composite via friction stir welding. <b>2012</b> , 22, s634-s638	32
1605	Fatigue and fracture behaviour of friction stir welded aluminium—titanium 2195. <b>2012</b> , 60, 1-9	29
1604	Mechanical and microstructural properties prediction by artificial neural networks in FSW processes of dual phase titanium alloys. <b>2012</b> , 14, 289-296	51
1603	Effect of SiC particles on microstructure and mechanical property of friction stir processed AA6061-T4. <b>2012</b> , 22, s614-s618	30
1602	Microstructure and mechanical properties of dissimilar pure copper/1350 aluminum alloy butt joints by friction stir welding. <b>2012</b> , 22, 1298-1306	84
1601	Visualization and simulation of plastic material flow in friction stir welding of 2024 aluminium alloy plates. <b>2012</b> , 22, 1445-1451	34
1600	Friction heat production and atom diffusion behaviors during Mg-Ti rotating friction welding process. <b>2012</b> , 22, 2665-2671	11
1599	High Strain Rate Superplasticity in a Micro-grained Al—Mg—Sc Alloy with Predominant High Angle Grain Boundaries. <b>2012</b> , 28, 1025-1030	53
1598	Effect of material location and tool rotational speed on microstructure and tensile strength of dissimilar friction stir welded aluminum alloys. <b>2012</b> , 12, 446-454	26
1597	Atom probe tomographic study of a friction-stir-processed Al—Mg—Sc alloy. <b>2012</b> , 60, 7078-7089	32
1596	Microstructure and mechanical properties of steel/TiC nano-composite surface layer produced by friction stir processing. <b>2012</b> , 209, 15-22	60
1595	Quantitative investigation of the tensile plastic deformation characteristic and microstructure for friction stir welded 2024 aluminum alloy. <b>2012</b> , 73, 114-123	42
1594	Microstructural characterization in dissimilar friction stir welding between 304 stainless steel and st37 steel. <b>2012</b> , 74, 28-41	63
1593	Superplastic tensile behavior of a fine-grained AZ91 magnesium alloy prepared by friction stir processing. <b>2012</b> , 556, 100-106	44
1592	Fabrication of aluminum—alumina metal matrix composites via cold gas dynamic spraying at low pressure followed by friction stir processing. <b>2012</b> , 556, 114-121	122

1591	Friction-stir dissimilar welding of aluminium alloy to high strength steels: Mechanical properties and their relation to microstructure. <b>2012</b> , 556, 175-183	123
1590	Influence of in-process cooling on tensile behaviour of friction stir welded joints of AA7039. <b>2012</b> , 556, 479-487	66
1589	Influence of texture on superplastic behavior of friction stir processed ZK60 magnesium alloy. <b>2012</b> , 556, 671-677	47
1588	Nondestructive observation of pore structure deformation behavior of functionally graded aluminum foam by X-ray computed tomography. <b>2012</b> , 556, 678-684	98
1587	Improvement of microstructural, mechanical and tribological characteristics of A413 cast Al alloys using friction stir processing. <b>2012</b> , 558, 502-509	41
1586	Microstructures and mechanical properties evolution during friction stir welding of SK4 high carbon steel alloy. <b>2012</b> , 558, 572-578	29
1585	Formability and microstructural stability of friction stir welded Al alloy tube during subsequent spinning and post weld heat treatment. <b>2012</b> , 558, 586-591	17
1584	Grain size and texture effects on deformation behavior of AZ31 magnesium alloy. <b>2012</b> , 558, 716-724	97
1583	Experimental Investigations on Characteristics and Welding Forces in Friction Stir Welding of AA 6061-T6 Aluminum Alloy. <b>2012</b> , 249-250, 295-302	
1582	Experimental and Finite Element Modeling of Friction Stir Seal Welding of Tube-Tubesheet Joint. <b>2012</b> , 445, 771-776	7
1581	Analysis of Plastic Flow during Friction Stir Spot Welding Using Finite Element Modelling. <b>2012</b> , 504-506, 419-424	4
1580	Dissimilar Friction-Stir Lap Joining of 5083 Aluminum Alloy to CuZn34 Brass. <b>2012</b> , 43, 1177-1186	39
1579	Processing, Microstructure, and Residual Stress Effects on Strength and Fatigue Crack Growth Properties in Friction Stir Welding: A Review. <b>2012</b> , 43, 1622-1637	37
1578	Modifications in the AA5083 Johnson-Cook Material Model for Use in Friction Stir Welding Computational Analyses. <b>2012</b> , 21, 2207-2217	45
1577	Study on the Microstructures and Tensile Behaviors of Friction Stir Welded T-joints for AA6061-T4 Alloys. <b>2012</b> , 21, 2131-2139	9
1576	The role of Metal-Matrix Composite development During Friction Stir Welding of Aluminum to Brass in Weld Characteristics. <b>2012</b> , 21, 2429-2437	17
1575	Parametric Study of Friction Stir Processing of Magnesium-Based AE42 Alloy. <b>2012</b> , 21, 2328-2339	16
1574	Microstructure and microhardness of AA1050/TiC surface composite fabricated using friction stir processing. <b>2012</b> , 37, 579-586	26

1573	Effect of friction stir welding parameters on microstructural characteristics and mechanical properties of 2219-T6 aluminum alloy joints. <b>2012</b> , 5, 235-241	41
1572	Review of tools for friction stir welding and processing. <b>2012</b> , 51, 250-261	260
1571	Corrosion analysis of GTA welded metal matrix composites. <b>2012</b> , 10, 93-109	1
1570	Microstructural Evolution During Friction Surfacing of Dissimilar Aluminum Alloys. <b>2012</b> , 43, 5224-5231	47
1569	Multiscale Study of Interfacial Intermetallic Compounds in a Dissimilar Al 6082-T6/Cu Friction-Stir Weld. <b>2012</b> , 43, 4655-4666	46
1568	Strengthening Mechanisms in NiAl Bronze: Hot Deformation by Rolling and Friction-Stir Processing. <b>2012</b> , 43, 3687-3702	15
1567	Effect of materials position on friction stir lap welding of Al to Cu. <b>2012</b> , 17, 581-588	59
1566	Joining of AA1100-6 vol.-%B4C metal matrix composite using laser welding and friction stir welding. <b>2012</b> , 51, 277-283	8
1565	Influence of welding parameters on stir zone microstructures during friction stir welding of magnesium alloys. <b>2012</b> , 51, 262-268	5
1564	Process Mechanics in Friction Stir Welding of Magnesium Alloys: Experimental and Numerical Analysis. <b>2012</b> , 504-506, 735-740	1
1563	A Friction Stir Welding Platform of Thin Plates. <b>2012</b> , 628, 206-210	1
1562	Numerical Analysis on Superplastic Forming of Friction Stir Welded AA6061-T6 Alloy Sheet. <b>2012</b> , 488-489, 753-758	1
1561	Friction Based Solid State Welding Processes. <b>2012</b> , 504-506, 3-14	2
1560	Predicting Grain Size and Tensile Strength of Friction Stir Welded Joints of AA7075-T6 Aluminium Alloy. <b>2012</b> , 27, 78-83	31
1559	Effect of Pin Profile on Friction Stir Welded Aluminum Matrix Composites. <b>2012</b> , 27, 1397-1401	22
1558	Effect of Processing Parameters on Friction Stir Welded Aluminum Matrix Composites Wear Behavior. <b>2012</b> , 27, 1419-1423	30
1557	Predicting the grain size and hardness of AZ91/SiC nanocomposite by artificial neural networks. <b>2012</b> , 63, 1095-1107	44
1556	Fracture and mechanical properties of friction stir spot welds in 6063-T6 aluminum alloy. <b>2012</b> , 62, 569-575	26

1555	Friction Stir Welding of very thin plates. <b>2012</b> , 17, 02-10	15
1554	Integrated modeling of friction stir welding of 6xxx series Al alloys: Process, microstructure and properties. <b>2012</b> , 57, 95-183	194
1553	Weld zone representation methods during the stretching of friction stir welded blanks with dissimilar sheet thickness: A study using numerical simulations. <b>2012</b> , 43, 241-252	2
1552	Effect of welding parameters on the heat affected zone and the mechanical properties of friction stir welded poly(ethylene-terephthalate-glycol). <b>2012</b> , 125, 2231-2238	35
1551	Stress corrosion cracking susceptibility of ultrafine grained AZ31. <b>2012</b> , 47, 6812-6822	25
1550	Influence of Process Parameters on Microstructure and Mechanical Properties of Friction-Stir-Processed Mg-Gd-Y-Zr Casting. <b>2012</b> , 43, 2094-2109	33
1549	Effect of Water Cooling on the Performances of Friction Stir Welding Heat-Affected Zone. <b>2012</b> , 21, 1182-1187	63
1548	On the Critical Technological Issues of Friction Stir Welding T-Joints of Dissimilar Aluminum Alloys. <b>2012</b> , 21, 1763-1771	42
1547	Effect of Post-Weld Annealing Treatment on Plastic Deformation of 2024 Friction-Stir-Welded Joints. <b>2012</b> , 21, 920-926	3
1546	Effect of Welding Parameters and Aging Process on the Mechanical Properties of Friction Stir-Welded 6063-T4 Al Alloy. <b>2012</b> , 21, 936-945	6
1545	Optimization of friction stir welding process to maximize tensile strength of AA6061/ZrB <sub>2</sub> in-situ composite butt joints. <b>2012</b> , 18, 135-142	33
1544	Effects of the types of overlap on the mechanical properties of FSSW welded AZ series magnesium alloy joints. <b>2012</b> , 19, 231-235	7
1543	Effect of Welding Parameters on Tensile Properties and Fatigue Behavior of Friction Stir Welded 2014-T6 Aluminum Alloy. <b>2012</b> , 65, 21-30	19
1542	Mechanical Properties of Friction Stir Welded Cast Al-Mg-Sc Alloys. <b>2012</b> , 65, 155-158	9
1541	Developing an Empirical Relationship to Predict the Influence of Process Parameters on Tensile Strength of Friction Stir Welded AA6061/0-10 wt% ZrB <sub>2</sub> In Situ Composite. <b>2012</b> , 65, 159-170	15
1540	Study on dissimilar friction stir butt welding of AA7075-O and AA2024-T4 considering the manufacturing limitation. <b>2012</b> , 59, 939-953	65
1539	Singly dispersed carbon nanotube/aluminum composites fabricated by powder metallurgy combined with friction stir processing. <b>2012</b> , 50, 1843-1852	213
1538	Force generation during friction stir welding of AA2024-T3. <b>2012</b> , 61, 9-12	88

1537	Critical distance method to estimate the fatigue life time of friction stir welded profiles. <b>2012</b> , 37, 60-68	19
1536	Fatigue crack propagation behavior in friction stir welding of AA6063-T5: Roles of residual stress and microstructure. <b>2012</b> , 43, 23-29	51
1535	The effect of post-welding conditions in friction stir welds: From weld simulation to ductile failure. <b>2012</b> , 33, 67-74	10
1534	Developing Empirical Relationships to Predict Grain Size and Hardness of the Weld Nugget of Friction Stir Welded AA7075-T6 Aluminium Alloy Joints. <b>2012</b> , 36, 6-17	13
1533	Evaluation of microstructure and wear behavior of friction stir processed cast aluminum alloy. <b>2012</b> , 63, 90-97	85
1532	Joining aluminum to titanium alloy by friction stir lap welding with cutting pin. <b>2012</b> , 71, 1-5	58
1531	Microstructural evolution and mechanical properties of ultrafine grained Al <sub>3</sub> Ti/Al <sub>5</sub> .5Cu composites produced via hot pressing and subsequent friction stir processing. <b>2012</b> , 134, 294-301	32
1530	A feasibility research on friction stir welding of a new-typed lap <sup>2</sup> butt joint of dissimilar Al alloys. <b>2012</b> , 34, 725-731	19
1529	Influence of tool geometry and process parameters on macrostructure and static strength in friction stir spot welded polyethylene sheets. <b>2012</b> , 33, 145-152	90
1528	Microstructures and mechanical properties of magnesium alloy and stainless steel weld-joint made by friction stir lap welding. <b>2012</b> , 33, 111-114	49
1527	Correlation between weld nugget grain size, weld nugget hardness and tensile strength of friction stir welded commercial grade aluminium alloy joints. <b>2012</b> , 34, 242-251	34
1526	Mechanical properties and microstructure of joints in AZ31 thin sheets obtained by friction stir welding using <sup>2</sup> pin <sup>2</sup> and <sup>2</sup> pinless <sup>2</sup> tool configurations. <b>2012</b> , 34, 219-229	44
1525	Effects of process parameters on strength of Mg alloy AZ61 friction stir spot welds. <b>2012</b> , 35, 350-357	35
1524	Investigating effects of process parameters on microstructural and mechanical properties of Al <sub>5052</sub> /SiC metal matrix composite fabricated via friction stir processing. <b>2012</b> , 37, 458-464	237
1523	Evaluation of microstructures and mechanical properties of friction stir welded lap joints of Inconel 600/SS 400. <b>2012</b> , 35, 126-132	19
1522	Effect of friction stir welding (FSW) parameters on strain hardening behavior of pure copper joints. <b>2012</b> , 35, 330-334	83
1521	Microstructures and fatigue properties of friction stir lap welds in aluminum alloy AA6061-T6. <b>2012</b> , 35, 175-183	39
1520	Study on the microstructure in a friction stir welded 2519-T87 Al alloy. <b>2012</b> , 35, 603-608	27



1519	Laser welding of AZ31B magnesium alloy to Zn-coated steel. <b>2012</b> , 35, 701-706	50
1518	Improvement in fatigue performance of friction stir welded A6061-T6 aluminum alloy by laser peening without coating. <b>2012</b> , 36, 809-814	77
1517	Effect of welding parameters on microstructure and mechanical properties of friction stir welded joints of AA7039 aluminum alloy. <b>2012</b> , 36, 379-390	107
1516	Plastic flow behaviour and formability of friction stir welded joints in AZ31 thin sheets obtained using the "pinless" tool configuration. <b>2012</b> , 36, 123-129	23
1515	Effect of processing parameters on fabrication of Al-Mg/Cu composites via friction stir processing. <b>2012</b> , 39, 358-365	105
1514	Corrosion behavior of aluminum 6061 alloy joined by friction stir welding and gas tungsten arc welding methods. <b>2012</b> , 39, 329-333	76
1513	Effect of tool rotational speed and pin profile on microstructure and tensile strength of dissimilar friction stir welded AA5083-H111 and AA6351-T6 aluminum alloys. <b>2012</b> , 40, 7-16	186
1512	Simulation of material flow in friction stir processing of a cast Al-Si alloy. <b>2012</b> , 40, 415-426	102
1511	Influences of tool shoulder diameter to plate thickness ratio (D/T) on stir zone formation and tensile properties of friction stir welded dissimilar joints of AA6061 aluminum-AZ31B magnesium alloys. <b>2012</b> , 40, 453-460	71
1510	Microstructure evolutions after friction stir welding of severely deformed aluminum sheets. <b>2012</b> , 40, 364-372	42
1509	Effect of the welding parameters and tool configuration on micro- and macro-mechanical properties of similar and dissimilar FSWed joints in AA5754 and AZ31 thin sheets. <b>2012</b> , 41, 50-60	67
1508	Effect of SPD and friction stir welding on microstructure and mechanical properties of Al-Cu-Mg-Ag sheets. <b>2012</b> , 66, 311-313	23
1507	Change of microstructure and cyclic deformation behavior along the thickness in a friction-stir-welded aluminum alloy. <b>2012</b> , 66, 5-8	19
1506	Microstructure and mechanical properties of Al-Cu-Mg alloy tube fabricated by friction stir welding and tube spinning. <b>2012</b> , 66, 427-430	8
1505	Partitioning evaluation of mechanical properties and the interfacial microstructure in a friction stir welded aluminum alloy/stainless steel lap joint. <b>2012</b> , 66, 531-534	85
1504	Novel nanoprocessing route for bulk graphene nanoplatelets reinforced metal matrix nanocomposites. <b>2012</b> , 67, 29-32	261
1503	Improvement of mechanical properties of a cast Al-Si base alloy by friction stir processing. <b>2012</b> , 80, 40-42	26
1502	High tensile ductility via enhanced strain hardening in ultrafine-grained Cu. <b>2012</b> , 532, 106-110	61

1501	Enhancement of static and fatigue strength of 1050 Al processed by equal-channel angular pressing using two routes. <b>2012</b> , 532, 120-129	19
1500	Fabrication of functionally graded aluminum foam using aluminum alloy die castings by friction stir processing. <b>2012</b> , 534, 716-719	87
1499	Effect of friction stir processing on microstructure and mechanical properties of aluminium. <b>2012</b> , 539, 85-92	109
1498	Characteristics of defects and tensile behaviors on friction stir welded AA6061-T4 T-joints. <b>2012</b> , 543, 58-68	65
1497	Evaluation of formability and material characteristics of aluminum alloy friction stir welded tube produced by a novel process. <b>2012</b> , 543, 210-216	23
1496	Mechanical properties of severely plastic deformed aluminum sheets joined by friction stir welding. <b>2012</b> , 543, 243-248	51
1495	Effect of friction stir welding on microstructure, mechanical and wear properties of AA6061/ZrB <sub>2</sub> in situ cast composites. <b>2012</b> , 543, 257-266	70
1494	Microstructure and mechanical property of nano-SiCp reinforced high strength Mg bulk composites produced by friction stir processing. <b>2012</b> , 547, 32-37	52
1493	Microstructural evolution in recrystallized and unrecrystallized Al <sub>3</sub> Mg <sub>2</sub> Sc alloys during superplastic deformation. <b>2012</b> , 547, 55-63	53
1492	Improvements of strength and ductility in aluminum alloy joints via rapid cooling during friction stir welding. <b>2012</b> , 548, 89-98	78
1491	Transition of deformation behavior in an ultrafine grained magnesium alloy. <b>2012</b> , 549, 123-127	19
1490	Effect of grain size on the microstructure and mechanical properties of friction stir welded non-combustive magnesium alloys. <b>2012</b> , 549, 176-184	42
1489	In situ synthesizing Al <sub>3</sub> Ni for fabrication of intermetallic-reinforced aluminum alloy composites by friction stir processing. <b>2012</b> , 550, 279-285	106
1488	Laser Shock Processing influence on local properties and overall tensile behavior of friction stir welded joints. <b>2012</b> , 206, 2422-2429	18
1487	The influence of multi-pass friction stir processing on the microstructural and mechanical properties of Aluminum Alloy 6082. <b>2012</b> , 212, 1157-1168	176
1486	Performance analysis of friction surfacing. <b>2012</b> , 212, 1676-1686	79
1485	Microstructural and tribological properties of Al5083 based surface hybrid composite produced by friction stir processing. <b>2012</b> , 278-279, 41-47	111
1484	Transient Heat and Material Flow Modeling of Friction Stir Processing of Magnesium Alloy using Threaded Tool. <b>2012</b> , 43, 724-737	62

1483	Effects of friction stir lap welding parameters on weld features on advancing side and fracture strength of AA6060-T5 welds. <b>2012</b> , 47, 1251-1261	36
1482	Effect of welding parameters on microstructure and mechanical properties of friction stir welded 2219Al-T6 joints. <b>2012</b> , 47, 4075-4086	42
1481	Friction stir welding characteristics of 2219-T6 aluminum alloy assisted by external non-rotational shoulder. <b>2013</b> , 64, 1685-1694	37
1480	Effect of Rotation Speed to Welding Speed Ratio on Microstructure and Mechanical Behavior of Friction Stir Welded Aluminum-Lithium Alloy Joints. <b>2013</b> , 15, 1051-1058	30
1479	Modified Friction Stir Channeling: A Novel Technique for Fabrication of Friction Stir Channel. <b>2013</b> , 302, 365-370	17
1478	Influence of Process Parameters on Microstructure and Mechanical Properties in AA2024-T3 Friction Stir Welding. <b>2013</b> , 2, 213-222	68
1477	Characterization of Engineered Nickel-Base Alloy Surface Layers Produced by Additive Friction Stir Processing. <b>2013</b> , 2, 1-12	16
1476	Effects of welding speed on microstructures and mechanical properties of AA2219-T6 welded by the reverse dual-rotation friction stir welding. <b>2013</b> , 68, 2071-2083	20
1475	Multi-response optimization using the Taguchi-based grey relational analysis: a case study for dissimilar friction stir butt welding of AA6082-T6/AA5754-H111. <b>2013</b> , 68, 795-804	53
1474	Design of tool system for the external nonrotational shoulder assisted friction stir welding and its experimental validations on 2219-T6 aluminum alloy. <b>2013</b> , 66, 623-634	27
1473	Internal defect and process parameter analysis during friction stir welding of Al 6061 sheets. <b>2013</b> , 65, 1515-1528	57
1472	Micro and macro mechanical characterization of friction stir welded Ti-6Al-4V lap joints through experiments and numerical simulation. <b>2013</b> , 213, 2312-2322	36
1471	Effect of Process Parameters on the Joint Integrity in Friction Stir Welding of Ti-6Al-4V Lap Joints. <b>2013</b> , 554-557, 1083-1090	3
1470	Microstructure and Mechanical Property Change During FSW and GTAW of Al6061 Alloy. <b>2013</b> , 44, 2187-2195	12
1469	An Investigation into the Microstructure of Friction-Stir Welded and Artificially Aged AA2017. <b>2013</b> , 22, 3566-3571	4
1468	Joining by plastic deformation. <b>2013</b> , 62, 673-694	294
1467	Microstructural evaluation and corrosion properties of aluminium matrix surface composite adding Al-based amorphous fabricated by friction stir processing. <b>2013</b> , 52, 137-143	38
1466	Effect of Traverse Speed on Microstructure and Microhardness of Cu/B4C Surface Composite Produced by Friction Stir Processing. <b>2013</b> , 66, 333-337	12

1465	Suppression of hydrogen-induced blisters in SK4 carbon steel alloy by friction stir processing. <b>2013</b> , 48, 4313-4320	8
1464	Investigation of microstructure and mechanical properties of friction stir lap jointed Monel 400 and Inconel 600. <b>2013</b> , 19, 571-576	7
1463	Diffusion in FSW Joints by Inserting the Metallic Foils. <b>2013</b> , 29, 1091-1095	11
1462	Microstructure and mechanical properties of hard zone in friction stir welded X80 pipeline steel relative to different heat input. <b>2013</b> , 586, 313-322	37
1461	Aluminum based in situ nanocomposite produced from Al-Mg-CuO powder mixture by using friction stir processing. <b>2013</b> , 100, 219-222	26
1460	FE modelling of microstructure evolution during friction stir spot welding in AA6082-T6. <b>2013</b> , 57, 895-902	19
1459	Prediction of mechanical properties in friction stir welds of pure copper. <b>2013</b> , 52, 1077-1087	58
1458	Effects of welding parameters and tool geometry on properties of 3003-H18 aluminum alloy to mild steel friction stir weld. <b>2013</b> , 23, 1957-1965	43
1457	Numerical simulation and experimental characterization of friction stir welding on thick aluminum alloy AA2139-T8 plates. <b>2013</b> , 585, 243-252	15
1456	Application of Taguchi optimization technique in determining aluminum to brass friction stir welding parameters. <b>2013</b> , 52, 587-592	45
1455	Mechanically activated effect of friction stir processing in Al-Ti reaction. <b>2013</b> , 139, 596-602	25
1454	Effect of applied load on the dry sliding wear behaviour and the subsurface deformation on hybrid metal matrix composite. <b>2013</b> , 305, 291-298	100
1453	Fatigue behavior of friction stir spot welded AZ31 Mg alloy sheet joints. <b>2013</b> , 23, 1949-1956	6
1452	Physical Simulation of Deformation and Microstructure Evolution During Friction Stir Processing of Ti-6Al-4V Alloy. <b>2013</b> , 44, 3577-3591	15
1451	Microstructure and Fatigue Properties of a Friction Stir Lap Welded Magnesium Alloy. <b>2013</b> , 44, 3732-3746	34
1450	Microstructure Evolution During Friction Stir Processing and Hot Torsion Simulation of Ti-6Al-4V. <b>2013</b> , 44, 3815-3825	18
1449	Facilitating Basal Slip to Increase Deformation Ability in Mg-Mn-Ce Alloy by Textural Reconstruction Using Friction Stir Processing. <b>2013</b> , 44, 3947-3960	9
1448	Grain Structure Development During Friction Stir Welding of Single-Crystal Austenitic Stainless Steel. <b>2013</b> , 44, 3157-3166	34

1447	Texture Produced by Abnormal Grain Growth in Friction Stir-Welded Aluminum Alloy 1050. <b>2013</b> , 44, 1153-1157	25
1446	Ultrafine-Grained Al-Mg-Sc Alloy via Friction-Stir Processing. <b>2013</b> , 44, 934-945	25
1445	Friction Stir Welded AZ31 Magnesium Alloy: Microstructure, Texture, and Tensile Properties. <b>2013</b> , 44, 323-336	63
1444	Effects of Rotation Rates on Microstructure, Mechanical Properties, and Fracture Behavior of Friction Stir-Welded (FSW) AZ31 Magnesium Alloy. <b>2013</b> , 44, 517-530	74
1443	Producing of AA5083/ZrO <sub>2</sub> Nanocomposite by Friction Stir Processing (FSP). <b>2013</b> , 44, 1546-1553	56
1442	The Effect of Base Metal Conditions on the Final Microstructure and Hardness of 2024 Aluminum Alloy Friction-Stir Welds. <b>2013</b> , 44, 738-743	6
1441	Establishing a Mathematical Model to Predict the Tensile Strength of Friction Stir Welded Pure Copper Joints. <b>2013</b> , 44, 175-183	43
1440	Microstructures and Properties of Friction Freeform Fabricated Borated Stainless Steel. <b>2013</b> , 22, 3034-3042	15
1439	Effect of Welding Parameters on the Microstructure and Strength of Friction Stir Weld Joints in Twin Roll Cast EN AW Al-Mn1Cu Plates. <b>2013</b> , 22, 3024-3033	8
1438	Effect of Tool Pin Insertion Depth on Friction Stir Lap Welding of Aluminum to Stainless Steel. <b>2013</b> , 22, 3005-3013	26
1437	Microstructure and Properties of TIG/FSW Welded Joints of a New Al-Zn-Mg-Sc-Zr Alloy. <b>2013</b> , 22, 2723-2729	15
1436	Numerical Analysis of Effect of Backplate Diffusivity on the Transient Temperature in Friction Stir Welding. <b>2013</b> , 22, 2446-2450	11
1435	Structure-Property Correlation of AA2014 Friction Stir Welds: Role of Tool Pin Profile. <b>2013</b> , 22, 2224-2240	50
1434	Comparison of microstructure and mechanical properties of conventional and refilled friction stir spot welds in AA 6061-T6 using filler plate. <b>2013</b> , 23, 2833-2842	36
1433	Heterogeneity of Microstructure and Mechanical Properties of Friction Stir Welded Joints of Al-Zn-Mg Alloy AA7039. <b>2013</b> , 64, 1384-1394	8
1432	Gradient micro-structured surface layer on aluminum alloy fabricated by in situ rolling friction stir welding. <b>2013</b> , 52, 821-827	16
1431	An innovative fabrication of nano-HA coatings on Ti-CaP nanocomposite layer using a combination of friction stir processing and electrophoretic deposition. <b>2013</b> , 39, 1477-1483	35
1430	Heat generation model for taper cylindrical pin profile in FSW. <b>2013</b> , 2, 370-375	61

1429	Enhanced strength and ductility of friction stir processed Cu-Al alloys with abundant twin boundaries. <b>2013</b> , 68, 751-754	46
1428	Friction powder compaction process for fabricating open-celled Cu foam by sintering-dissolution process route using NaCl space holder. <b>2013</b> , 585, 468-474	35
1427	Friction stir welding of thick plates of aluminum alloy matrix composite with a high volume fraction of ceramic reinforcement. <b>2013</b> , 54, 117-123	56
1426	Simultaneous measurement of tool torque, traverse force and axial force in friction stir welding. <b>2013</b> , 15, 495-500	80
1425	FSW of T joints in overlap configuration: process optimization in joining dissimilar aluminium alloys for the aeronautic application. <b>2013</b> , 45, 1631-1637	13
1424	Developing high-performance aluminum matrix composites with directionally aligned carbon nanotubes by combining friction stir processing and subsequent rolling. <b>2013</b> , 62, 35-42	107
1423	Effect of welding parameters on mechanical and fatigue properties of friction stir welded 2198 T8 aluminum-lithium alloy joints. <b>2013</b> , 114, 1-11	52
1422	Fine grained Mg-Al-Zn alloy with randomized texture in the double-sided friction stir welded joints. <b>2013</b> , 580, 83-91	54
1421	Residual stress measurement on AA6061-T6 aluminum alloy friction stir butt welds using contour method. <b>2013</b> , 46, 366-371	49
1420	Effect of process parameters on corrosion rate of friction stir welded aluminium SiC-Cr hybrid composites. <b>2013</b> , 48, 346-353	6
1419	Optimisation of friction-stir welding process using vibro-acoustic signal analysis. <b>2013</b> , 18, 532-540	5
1418	Microscale evaluation of mechanical properties of friction stir welded A6061 aluminium alloy/304 stainless steel dissimilar lap joint. <b>2013</b> , 18, 108-113	38
1417	Effect of welding parameters on microstructure and mechanical properties of friction stir welded EN AW 5083 H111 plates. <b>2013</b> , 29, 1354-1362	21
1416	Effect of welding parameters on lap shear tensile properties of dissimilar friction stir spot welded AA 5754-H22/2024-T3 joints. <b>2013</b> , 18, 337-345	89
1415	CAFE modeling, neural network modeling, and experimental investigation of friction stir welding. <b>2013</b> , 227, 1164-1176	12
1414	Materials flow and phase transformation in friction stir welding of Al 6013/Mg. <b>2013</b> , 23, 1253-1261	47
1413	Computational fluid dynamics studies on heat generation during friction stir welding of aluminum alloy. <b>2013</b> , 79, 540-546	63
1412	A novel manufacturing route for production of high-performance metal matrix nanocomposites. <b>2013</b> , 1, 62-65	24

1411	A study on friction stir welding of 12mm thick aluminum alloy plates. <b>2013</b> , 12, 493-499	10
1410	Forming limit investigation of friction stir welded sheets: influence of shoulder diameter and plunge depth. <b>2013</b> , 69, 2757-2772	28
1409	Optimization of process parameters to maximize ultimate tensile strength of friction stir welded dissimilar aluminum alloys using response surface methodology. <b>2013</b> , 20, 2929-2938	23
1408	Enhanced fatigue durability of Al <sub>3</sub> Mg alloy by applying ultrasonic impact peening: Effects of surface hardening and reinforcement with AlCuFe quasicrystalline particles. <b>2013</b> , 563, 138-146	46
1407	Application of CGP-cross route process for microstructure refinement and mechanical properties improvement in steel sheets. <b>2013</b> , 15, 533-541	31
1406	Numerical Studies on Friction Stir Welding of Lightweight Materials. <b>2013</b> , 743, 118-122	4
1405	Thermo-Mechanical Modelling of Friction Stir Welding Process. <b>2013</b> , 774-776, 1155-1159	3
1404	Computational Investigation of Mechanical Behaviour of FSW Joints. <b>2013</b> , 389, 260-266	3
1403	Friction Stir Welding of Al Alloys: Analysis of Processing Parameters Affecting Mechanical Behavior. <b>2013</b> , 11, 139-144	34
1402	Effect of friction stir welding parameters on properties of AA6061 aluminum alloy butt welded joints. <b>2013</b> , 33-40	5
1401	Metal Flow during Friction Stir Welding of 7075-T651 Aluminum Alloy. <b>2013</b> , 53, 1573-1582	28
1400	Development of a New Approach for Incorporating Tool Tilting in Friction Stir Welding. <b>2013</b> , 701, 378-381	6
1399	Effects of SiC on the Strengthening Activated Tungsten Inert Gas (SA-TIG) Welded of Magnesium Alloy. <b>2013</b> , 28, 1240-1247	10
1398	Investigation on friction stir welding parameter design for lap joining of pure titanium. <b>2013</b> , 159-163	2
1397	Optimization of Friction Stir Welding by fuzzy logic. <b>2013</b> ,	
1396	Channel Formation in Modified Friction Stir Channeling. <b>2013</b> , 302, 371-376	13
1395	Effect of friction stir processing on the electrical resistivity of AA 6082. <b>2013</b> ,	1
1394	Novel approach to refill probe hole in friction stir spot welding of AA 6061-T6 sheets. <b>2013</b> , 189-194	

- 1393 Optimisation of dissimilar friction stir welding parameters with grey relational analysis. **2013**, 227, 1317-1324 18
- 1392 Extreme grain refinement by severe plastic deformation: A wealth of challenging science. **2013**, 61, 782-817 1230
- 1391 Stress corrosion cracking susceptibility of ultrafine grained Al-Mg-Sc alloy. **2013**, 565, 80-89 43
- 1390 Advanced Material Designs Using Friction Stir Welding Technique. **2013**, 59-68
- 1389 Numerical modeling of friction stir welding process: a literature review. **2013**, 65, 115-126 108
- 1388 Influence of high temperature thermal treatment on grain stability and mechanical properties of medium strength aluminium alloy friction stir welds. **2013**, 213, 75-83 16
- 1387 Thermal stability during annealing of friction stir welded aluminum sheet produced by constrained groove pressing. **2013**, 45, 222-227 19
- 1386 Nanostructured aluminium alloys produced by severe plastic deformation: New horizons in development. **2013**, 560, 1-24 373
- 1385 Superplastic behavior and microstructural stability of friction stir processed AZ91C alloy. **2013**, 48, 2635-2646 23
- 1384 Microstructures and mechanical properties of friction stir processed Mg<sub>0.0Nd0.3Zn0.0Zr</sub> magnesium alloy. **2013**, 1, 122-127 44
- 1383 Effect of Yttrium Addition on Microstructural Characteristics and Superplastic Behavior of Friction Stir Processed ZK60 Alloy. **2013**, 29, 1116-1122 30
- 1382 Microstructure evolution in aluminum alloy AA 2014 during multi-layer friction deposition. **2013**, 86, 146-151 22
- 1381 The Behavior of Friction Stir Welded (FSW) Sheets of AA6061-T6 During in-plane Stretching Test. **2013**, 64, 862-867 3
- 1380 Friction stir welding of a P/M Al<sub>2</sub>O<sub>3</sub> nanocomposite: Microstructure and mechanical properties. **2013**, 585, 222-232 76
- 1379 Influence of sampling design on tensile properties and fracture behavior of friction stir welded magnesium alloys. **2013**, 576, 207-216 31
- 1378 Viscoplastic friction and microstructural evolution behavior of laser-clad Co-Cr-Ni-Mo coating. **2013**, 23, 681-691 5
- 1377 Residual stresses and high cycle fatigue properties of friction stir welded SiCp/AA2009 composites. **2013**, 55, 64-73 46
- 1376 Effects of fluxes on distribution of SiC particles and microstructures and mechanical properties of nanoparticles strengthening A-TIG (NSA-TIG) welded magnesium alloy joints. **2013**, 18, 404-413 12



1375	Effect of severe plastic deformation on hot cracking of wrought aluminium alloy in pulsed laser welding. <b>2013</b> , 18, 473-477	9
1374	Frictions stir welding of copper under different welding parameters and media. <b>2013</b> , 18, 697-702	39
1373	On use of weld zone temperatures for online monitoring of weld quality in friction stir welding of naturally aged aluminium alloys. <b>2013</b> , 52, 730-739	22
1372	Influence of FSW parameters on formation quality and mechanical properties of Al 2024-T351 butt welded joints. <b>2013</b> , 23, 3525-3539	37
1371	Formation of long-period stacking ordered phase only within grains in Mg-Al-Zn casting by friction stir processing. <b>2013</b> , 581, 585-589	41
1370	Mechanisms of fracture and inhomogeneous deformation on transverse tensile test of friction-stir-processed AZ31 Mg alloy. <b>2013</b> , 565, 333-341	58
1369	Production of in-situ hard Ti/TiN composite surface layers on CP-Ti using reactive friction stir processing under nitrogen environment. <b>2013</b> , 218, 62-70	24
1368	Microstructures and Mechanical Properties of Friction Stir Spot Welded Aluminum Alloy AA2014. <b>2013</b> , 22, 71-84	39
1367	Microstructure and Mechanical Performance of Friction Stir Spot-Welded Aluminum-5754 Sheets. <b>2013</b> , 22, 131-144	48
1366	Improving Strength of Stainless Steel/Aluminum Alloy Friction Welds by Modifying Faying Surface Design. <b>2013</b> , 22, 376-383	23
1365	Formation of Al-Mo intermetallic particle-strengthened aluminum alloys by friction stir processing. <b>2013</b> , 35, 9-14	31
1364	Investigations on the effects of friction stir welding parameters on intermetallic and defect formation in joining aluminum alloy to mild steel. <b>2013</b> , 49, 433-441	150
1363	Surface aluminizing on Ti-6Al-4V alloy via a novel multi-pass friction-stir lap welding method: Preparation process, oxidation behavior and interlayer evolution. <b>2013</b> , 49, 647-656	25
1362	Influence of welding parameters and tool pin profile on microstructure and mechanical properties along the thickness in a friction stir welded aluminum alloy. <b>2013</b> , 47, 599-606	61
1361	Microstructure and Mechanical Properties of a Dissimilar Friction Stir Weld between Austenitic Stainless Steel and Low Carbon Steel. <b>2013</b> , 29, 367-372	52
1360	Relationship between friction stir processing parameters and torque, temperature and the penetration depth of the tool. <b>2013</b> , 13, 186-191	17
1359	Friction stir welding of SiCp/2009Al composite plate. <b>2013</b> , 47, 243-247	43
1358	The optimum combination of tool rotation rate and traveling speed for obtaining the preferable corrosion behavior and mechanical properties of friction stir welded AA5052 aluminum alloy. <b>2013</b> , 50, 620-634	44

1357	Surface nitriding on Ti-6Al-4V alloy via friction stir processing method under nitrogen atmosphere. <b>2013</b> , 274, 356-364	26
1356	Achieving ultrafine dual-phase structure with superior mechanical property in friction stir processed plain low carbon steel. <b>2013</b> , 575, 30-34	41
1355	Effect of process parameters on tensile strength of friction stir welded cast A356 aluminium alloy joints. <b>2013</b> , 23, 605-615	19
1354	Numerical modelling for the hardness evaluation of friction stir welded copper metals. <b>2013</b> , 49, 913-921	16
1353	Process parameter influence on defects and tensile properties of friction stir welded T-joints on AA6061-T4 sheets. <b>2013</b> , 51, 161-174	33
1352	Achieving High Strength and High Ductility in Friction Stir-Processed Cast Magnesium Alloy. <b>2013</b> , 44, 3675-3684	31
1351	In-situ formation of Al <sub>2</sub> O <sub>3</sub> nanoparticles during friction stir processing of AlSiO <sub>2</sub> composite. <b>2013</b> , 80, 1-8	41
1350	Shared control of robotic friction stir welding in the presence of imperfect joint fit-up. <b>2013</b> , 15, 25-33	8
1349	Microstructure and mechanical properties of S45C steel prepared by laser-assisted friction stir welding. <b>2013</b> , 47, 842-849	61
1348	Gap tolerance allowance and robotic operational window for friction stir butt welding of AA6061. <b>2013</b> , 213, 631-640	26
1347	Microstructural characterization and formation of $\beta$ martensite phase in Ti-6Al-4V alloy butt joints produced by friction stir and gas tungsten arc welding processes. <b>2013</b> , 47, 143-150	49
1346	Joining of 14YWT and F82H by friction stir welding. <b>2013</b> , 442, S529-S534	24
1345	Microstructure and mechanical properties of friction stir welded 6082 AA in as welded and post weld heat treated conditions. <b>2013</b> , 46, 561-572	74
1344	Torque, temperature and hardening precipitation evolution in dissimilar friction stir welds between 6061-T6 and 2014-T6 aluminum alloys. <b>2013</b> , 213, 826-837	60
1343	Fatigue behaviour of AA6082-T6 MIG welded butt joints improved by friction stir processing. <b>2013</b> , 51, 315-322	42
1342	Effect of backplate diffusivity on microstructure and mechanical properties of friction stir welded joints. <b>2013</b> , 50, 551-557	30
1341	Natural aging behaviour of friction stir welded 6005A-T6 aluminium alloy. <b>2013</b> , 576, 29-35	36
1340	Influence of microstructural evolution on tensile properties of friction stir welded joint of rolled SiCp/AA2009-T351 sheet. <b>2013</b> , 51, 199-205	52

1339	Effect of welding residual stresses on fatigue crack growth thresholds. <b>2013</b> , 50, 10-17	24
1338	Tribological enhancement of AISI 420 martensitic stainless steel through friction-stir processing. <b>2013</b> , 302, 863-877	42
1337	Microstructure and mechanical properties of a friction stir processed Ti $\beta$ Al $\beta$ V alloy. <b>2013</b> , 573, 67-74	61
1336	Microstructure and mechanical property of A356 based composite by friction stir processing. <b>2013</b> , 23, 335-340	29
1335	Wear characteristics of Al $\beta$ Cr $\beta$ surface nano-composite layer fabricated on Al6061 plate by friction stir processing. <b>2013</b> , 304, 144-151	45
1334	Tribological and corrosion behavior of friction stir processed Ti-CaP nanocomposites in simulated body fluid solution. <b>2013</b> , 20, 90-7	22
1333	An analytical model of steady-state continuous drive friction welding. <b>2013</b> , 61, 1662-1675	30
1332	Effect of post-processing heat treatment on microstructure and microhardness of water-submerged friction stir processed 2219-T6 aluminum alloy. <b>2013</b> , 47, 101-105	40
1331	Friction and wear performance of copper $\beta$ graphite surface composites fabricated by friction stir processing (FSP). <b>2013</b> , 304, 1-12	135
1330	Surface modification of A390 hypereutectic Al $\beta$ Bi cast alloys using friction stir processing. <b>2013</b> , 228, 209-220	47
1329	High strain rate superplasticity of a fine-grained AZ91 magnesium alloy prepared by submerged friction stir processing. <b>2013</b> , 568, 40-48	76
1328	Fabrication of TiCp/Ti $\beta$ Al $\beta$ V surface composite via friction stir processing (FSP): Process optimization, particle dispersion-refinement behavior and hardening mechanism. <b>2013</b> , 574, 75-85	49
1327	Application of Taguchi approach to optimize of FSSW parameters on joint properties of dissimilar AA2024-T3 and AA5754-H22 aluminum alloys. <b>2013</b> , 51, 513-521	42
1326	Microstructure and mechanical properties of Al $\beta$ Mg $\beta$ Er sheets jointed by friction stir welding. <b>2013</b> , 52, 706-712	26
1325	Microstructure characterization of the stir zone of submerged friction stir processed aluminum alloy 2219. <b>2013</b> , 82, 97-102	61
1324	A pinless embedded tool used in FSSW and FSW of aluminum alloy. <b>2013</b> , 213, 1818-1824	17
1323	Changes in texture and microstructure of friction stir welded Mg alloy during post-rolling and their effects on mechanical properties. <b>2013</b> , 582, 178-187	54
1322	Fabrication of Carbon Nanotube Reinforced Aluminum Matrix Composites via Friction Stir Processing. <b>2013</b> , 21-28	3

1321	Processing, Microstructure and Mechanical Property Correlation in Al-B4C Surface Composite Produced via Friction Stir Processing. <b>2013</b> , 39-46	2
1320	Influence of Heat Input on Friction Stir Welding for the ODS Steel MA956. <b>2013</b> , 127-138	1
1319	Microstructural and Mechanical Investigations of Friction Stir Welded Ti/Ti- and Ti-Alloy/Ti-Alloy-Joints. <b>2013</b> , 139-140	
1318	On Friction Stir Welding of Mg-Zn-RE-Rr Alloy Using Threaded Tools for Aerospace Application. <b>2013</b> , 235-244	
1317	Magnesium Based Composite via Friction Stir Processing. <b>2013</b> , 245-252	2
1316	Evolution of Microstructure and Texture in Friction Stir Processed Al-Mg-Mn Alloy. <b>2013</b> , 753, 247-250	11
1315	Thermal modeling of underwater friction stir welding of high strength aluminum alloy. <b>2013</b> , 23, 1114-1122	47
1314	Three-Dimensional Visualization of Metallic Flow and Control of FSW Joint Properties Using New FSP Technique. <b>2013</b> , 277-288	
1313	Microstructure and mechanical properties of dissimilar spot friction stir welded Zr55Cu30Al10Ni5 bulk metallic glass to pure copper. <b>2013</b> , 33, 113-119	12
1312	Thermo-mechanical and metallurgical aspects in friction stir processing of AZ31 Mg alloy—numerical and experimental investigation. <b>2013</b> , 213, 279-290	55
1311	Microstructure and mechanical properties of friction stir welded oxide dispersion strengthened alloy. <b>2013</b> , 432, 274-280	44
1310	Modelling and Pareto optimization of mechanical properties of friction stir welded AA7075/AA5083 butt joints using neural network and particle swarm algorithm. <b>2013</b> , 44, 190-198	123
1309	Effect of weld morphology on mechanical response and failure of friction stir welds in a naturally aged aluminium alloy. <b>2013</b> , 44, 23-34	30
1308	Microstructure and failure mechanisms of refill friction stir spot welded 7075-T6 aluminum alloy joints. <b>2013</b> , 44, 476-486	148
1307	Effect of annealing treatment on joint strength of aluminum/steel friction stir lap weld. <b>2013</b> , 44, 487-492	68
1306	Characteristics of the reverse dual-rotation friction stir welding conducted on 2219-T6 aluminum alloy. <b>2013</b> , 45, 148-154	34
1305	Mathematical model and optimization for underwater friction stir welding of a heat-treatable aluminum alloy. <b>2013</b> , 45, 206-211	65
1304	Effects of welding speed on the microstructure and hardness in friction stir welding joints of 6005A-T6 aluminum alloy. <b>2013</b> , 45, 524-531	66

1303	The microstructure and mechanical properties of an Al <sub>3</sub> TiO in-situ composite produced using friction stir processing. <b>2013</b> , 90, 26-29	44
1302	The effect of process parameters on microstructural characteristics of AZ91/SiO <sub>2</sub> composite fabricated by FSP. <b>2013</b> , 559, 217-221	83
1301	Using hardness measurement for dislocation densities determination in FSPed metal in order to evaluation of strain rate effect on the tensile behavior. <b>2013</b> , 559, 917-919	15
1300	Dissimilar linear friction welding between a SiC particle reinforced aluminum composite and a monolithic aluminum alloy: Microstructural, tensile and fatigue properties. <b>2013</b> , 559, 852-860	29
1299	Effect of welding parameters on microstructure and mechanical properties of friction stir welded Al <sub>3</sub> Mg <sub>2</sub> Er alloy. <b>2013</b> , 559, 889-896	74
1298	Study of precipitates and their effect on the directional yield asymmetry of friction stir processed and aged AZ91C alloy. <b>2013</b> , 560, 500-509	37
1297	Effect of microstructural inhomogeneity on superplastic behaviour of multipass friction stir processed aluminium alloy. <b>2013</b> , 561, 78-87	31
1296	Microstructure and mechanical properties of friction stir welded dissimilar Mg alloys of ZK60 <sub>2</sub> Z31. <b>2013</b> , 561, 419-426	59
1295	Microstructure and mechanical properties of friction stir welded lean duplex stainless steel. <b>2013</b> , 561, 486-491	55
1294	An analytical model to optimize rotation speed and travel speed of friction stir welding for defect-free joints. <b>2013</b> , 68, 175-178	59
1293	A Comparative Analysis of the Impact of Tool Design to Fatigue Behavior of Single-Sided and Double-Sided Welded Butt Joints of EN AW 6082-T6 Alloy. <b>2013</b> , 22, 3818-3824	10
1292	Friction stir welding of twin-roll cast EN AW 3003 plates. <b>2013</b> , 19, 1259-1266	8
1291	3-Dimensional observation of the interior fatigue fracture mechanism on friction stir spot welded using 300MPa-class automobile steel sheets. <b>2013</b> , 435-442	3
1290	Fabrication of metal matrix composites via friction stir processing. <b>2013</b> , 395-399	1
1289	Multi-Criteria Optimization in Friction Stir Welding Using a Thermal Model with Prescribed Material Flow. <b>2013</b> , 28, 816-822	17
1288	Achieving Large-area Bulk Ultrafine Grained Cu via Submerged Multiple-pass Friction Stir Processing. <b>2013</b> , 29, 1111-1115	36
1287	Role of friction stir processing parameters on microstructure and microhardness of boron carbide particulate reinforced copper surface composites. <b>2013</b> , 38, 1433-1450	21
1286	Microstructural evolution and superplastic behavior in friction stir processed Mg <sub>2</sub> Si <sub>2</sub> Al <sub>3</sub> Zn alloy. <b>2013</b> , 48, 8539-8546	18

1285	Effects of tool rotation speed on microstructures and mechanical properties of AA2219-T6 welded by the external non-rotational shoulder assisted friction stir welding. <b>2013</b> , 43, 299-306	54
1284	Microstructure and corrosion properties of 5A06 aluminum matrix surface composite fabricated by friction stir processing. <b>2013</b> , 1-5	1
1283	Temperature and force response characteristics of friction stir welding on Invar 36 alloy. <b>2013</b> , 18, 232-238	15
1282	Novel design of tool for joining hollow extrusion by friction stir welding. <b>2013</b> , 18, 239-246	29
1281	Analysis of tool geometry in dissimilar Al alloy friction stir welds using optical microscopy and serial sectioning. <b>2013</b> , 18, 307-313	22
1280	Hydrogen embrittlement of friction stir welded SK4 high carbon steel plates. <b>2013</b> , 101-105	
1279	Friction stir welded Cu-30Zn brass joints by rapid cooling. <b>2013</b> , 169-172	0
1278	Fabrication of Hybrid Surface Composite through Friction Stir Processing and Its Impression Creep Behaviour. <b>2013</b> , 2013, 1-6	9
1277	The Role of Friction Stir Welding Process Parameter on Mechanical Properties of Magnesium Alloy AZ31B. <b>2013</b> , 849, 38-44	
1276	Similar and Dissimilar FSWed Joints in Lightweight Alloys: Heating Distribution Assessment and IR Thermography Monitoring for On-Line Quality Control. <b>2013</b> , 554-557, 1055-1064	6
1275	Microstructure Development in Single and Double-Pass Friction Stir Processing of Aluminium. <b>2013</b> , 753, 50-53	2
1274	Microstructural Refinement of Pure Copper by Friction Stir Processing. <b>2013</b> , 787, 256-261	5
1273	Analysis and Comparison of Friction Stir Welding and Laser Assisted Friction Stir Welding of Aluminum Alloy. <b>2013</b> , 6, 5923-5941	53
1272	Friction Stir Processing: An Operational Method to Improve Ductility in Pure Copper. <b>2013</b> , 818, 14-19	1
1271	Effect of Welding Parameters on AA8090 Al-Li Alloy FSW T-Joints. <b>2013</b> , 554-557, 985-995	3
1270	The Analysis of Structural Strength of UD Clutch Hub Assembly. <b>2013</b> , 303-306, 2754-2757	
1269	Joint strength of friction stir welded AISI 304 austenitic stainless steels. <b>2013</b> , 104, 1197-1204	5
1268	FSW of AA 2139 Plates: Influence of the Temper State on the Mechanical Properties. <b>2013</b> , 554-557, 1065-10748	

- 1267 Effect of microtexture distribution on inhomogeneous deformation and fracture of friction-stir-processed magnesium alloys. **2013**, 53-57
- 1266 Effect of friction stir processing on microstructures and corrosive properties in simulated body fluid of biological Mg-Zn-Y-Nd alloy. **2013**, 411-415
- 1265 In-Plane Plane-Strain Formability Investigation of Friction Stir Welded Sheets Made of Dissimilar Aluminium Alloys. **2013**, 446-447, 301-305
- 1264 Fatigue crack growth behavior in weld nugget zone of FSWed similar and dissimilar aluminum alloys joint. **2013**, 225-230 2
- 1263 Microstructure and Mechanical Properties of Friction Stir Welded Annealed Pure Copper Joints. **2013**, 787, 346-351
- 1262 Evaluating the Strength of the Friction Stir Welded Joints at Various Rotational Speeds. **2013**, 446-447, 312-315
- 1261 Fabrication of Large-Scale Porous Aluminum by Enhanced Friction Powder Compaction Process through Traversing Tool Based on Sintering and Dissolution Process. **2013**, 54, 2305-2308 1
- 1260 Effect of Friction Stir Welding pin Shape on Mechanical Properties of AA6061 Alloy Weldment. **2013**, 465-466, 1309-1313
- 1259 Microstructures and Mechanical Properties of Mg Alloy FSW Joint Characterized with Asymmetric Gradient in Three Dimension. **2013**, 749, 180-186
- 1258 Friction powder compaction process for fabricating porous Cu by space holder route. **2013**, 401-405 2
- 1257 Effect of Friction Stir Processing on Mechanical Properties of Surface Composite of Cu Reinforced with Cr Particles. **2013**, 829, 851-856 7
- 1256 Numerical Optimization of Selective Superplastic Forming of Friction Stir Processed AZ31 Mg Alloy. **2013**, 554-557, 2212-2220 4
- 1255 Optimum Rotation Speed for the Friction Stir Welding of Pure Copper. **2013**, 2013, 1-5 3
- 1254 Influence of FSW Process Parameters on Fatigue Strength of Aluminum Alloy 6082 Joints. **2013**, 257-262 1
- 1253 Design of Friction Stir Welding Tool for Avoiding Root Flaws. **2013**, 6, 5870-5877 17
- 1252 Effect of peak temperature during friction stir welding on microstructure evolution of aluminum alloy 1050. **2013**, 41-44 2
- 1251 Numerical analysis of heat transfer and material flow in reverse dual-rotation friction stir welding. **2013**, 325-331 1
- 1250 On the critical technological issues of friction stir welding lap joints of dissimilar aluminum alloys. **2013**, 45, 1643-1648 10

1249	Three-dimensional investigation on temperature distribution and mechanical properties of AZ31Mg alloy joint welded by FSW. <b>2013</b> , 67-72	
1248	Critical review of automotive steels spot welding: process, structure and properties. <b>2013</b> , 18, 361-403	291
1247	Experimental external force estimation using a non-linear observer for 6 axes flexible-joint industrial manipulators. <b>2013</b> ,	7
1246	The influence of position in overlap joints of Mg and Al alloys on microstructure and hardness of laser welds. <b>2013</b> , 25, 032001	9
1245	Friction stir welding of aluminum alloy and copper dissimilar pipes of thin wall and small diameter. <b>2013</b> , 249-254	0
1244	Notice of Retraction: Statistical aspects of fatigue crack growth life of base metal, weld metal and heat affected zone in FSWed 7075-T6 aluminum alloy. <b>2013</b> ,	
1243	Research on reverse dual rotation friction stir welding process. <b>2013</b> , 25-32	3
1242	Fatigue Crack Growth Behavior of FSWed Joint Joined with a Bobbin Type Tool in Different Aluminum Alloys. <b>2013</b> , 446-447, 32-39	1
1241	Effect of post-weld heating on microstructure and mechanical properties of friction stir welded thick 5083 Al alloy. <b>2013</b> , 165-168	1
1240	Microstructure and mechanical properties of friction stir welded X80 pipeline steel joint under additional cooling. <b>2013</b> , 445-448	1
1239	Influence of tool rotation speed and feed rate on the forming limit of friction stir welded AA6061-T6 sheets. <b>2013</b> , 227, 520-541	12
1238	Electron diffraction characterization of a new metastable Al <sub>2</sub> Cu phase in an Al-Cu friction stir weld. <b>2013</b> , 46, 430-442	4
1237	Effects of laser peening on plane bending fatigue properties of friction stir welded A6061-T6 alloy. <b>2013</b> , 419-423	2
1236	Metallurgy of friction stir processed Cu/B4C surface composite. <b>2013</b> , 2, 27-31	2
1235	Bulk NiTi/Al Composites Prepared by Friction Stir Processing. <b>2013</b> , 1387-1393	
1234	Fabrication of Carbon Nanotube Reinforced Aluminum Matrix Composites via Friction Stir Processing. <b>2013</b> , 21-28	
1233	Bulk NiTi/Al Composites Prepared by Friction Stir Processing. <b>2013</b> , 1387-1393	
1232	High Strain Rate Superplasticity of a Fine-Grained AZ91 Magnesium Alloy Prepared by Friction Stir Processing. <b>2013</b> , 1065-1071	



1231	Fabrication of an Al Foam/Dense Steel Composite by Friction Welding. <b>2013</b> , 54, 1012-1017	11
1230	Compression Properties of Three-Layered Functionally Graded ADC12 Aluminum Foam Fabricated by Friction Stir Welding. <b>2013</b> , 54, 1268-1273	10
1229	Effects of Friction Stir Process and Stabilizing Heat Treatment on the Tensile and Punch-Shear Properties of Mg&ndash;9Li&ndash;2Al&ndash;1Zn Magnesium Alloy. <b>2013</b> , 54, 505-511	6
1228	Effect of Surface Modification by Aqueous NaOH Solution on Bond Strength of Solid-State Bonded Interface of Al. <b>2013</b> , 54, 1975-1980	3
1227	Compression Properties of Al/Al-Mg-Si/Al-Si-Cu Alloy Three-Layered Functionally Graded Aluminum Foam. <b>2013</b> , 77, 430-434	3
1226	Compression Properties of Al/Al&ndash;Si&ndash;Cu Alloy Functionally Graded Aluminum Foam Fabricated by Friction Stir Processing Route. <b>2013</b> , 54, 405-408	24
1225	Effect of Die Material on Compressive Properties of Open-Cell Porous Aluminum Fabricated by Friction Powder Compaction Process. <b>2013</b> , 54, 1057-1059	13
1224	Experimental Researches on Resistance Heat Aided Friction Stir Welding of Mg Alloy. <b>2013</b> , 31, 65s-68s	9
1223	High Strain Rate Superplasticity of a Fine-Grained AZ91 Magnesium Alloy Prepared by Friction Stir Processing. <b>2013</b> , 1065-1071	
1222	Friction Stir Lap Welding of Al and Mg Alloys: Deformation and Joint Strength. <b>2013</b> , 1057-1064	
1221	Friction Stir Welding of Aluminium-Alloys. <b>2014</b> ,	1
1220	Prediction of Friction Stir Welding defect-free joints of AISI 304 austenitic stainless steel through axial force profile understanding. <b>2014</b> , 17, 1324-1327	2
1219	Dissimilar Metal Joining by Using Friction Stir Spot Welding. <b>2014</b> ,	
1218	Investigation of the nugget zone corrosion behavior in friction stir welded lap joints of 6061-T6 aluminum alloy. <b>2014</b> , 17, 1563-1574	6
1217	Optimum Speed of Friction Stir Welding on 304L Stainless Steel by Finite Element Method. <b>2014</b> , 227-236	6
1216	Influence of Process Parameters on Microstructure of Friction Stir Processed Mg AZ31 Alloy. <b>2014</b> , 2, 47-58	
1215	Heat and Material Flow Effects on Microstructures and Hardness in Friction-Stir Welded Joints. <b>2014</b> , 86, 209-214	2
1214	Effect of process parameters on optimum welding condition of DP590 steel by friction stir welding. <b>2014</b> , 28, 5143-5148	16

1213	Friction Stir Processing of SSM356 Aluminium Alloy. <b>2014</b> , 97, 732-740	20
1212	Study of Relation between Welding and Hardening Parameters of Friction Stir Welded Aluminium 2024 Alloy. <b>2014</b> , 97, 505-512	0
1211	Effect of Friction Stir Welding Speed and Post Weld Heat Treatment on the Microstructure and Hardness of AA7020. <b>2014</b> , 253-264	
1210	References. <b>2014</b> , 93-97	
1209	Investigations on the Effect of Various Tool Pin Profiles in Friction Stir Welding Using Finite Element Simulations. <b>2014</b> , 97, 1060-1068	17
1208	Layer Stability and Material Properties of Friction-Stir Welded Cu/Al Nanolamellar Composite Plates. <b>2014</b> , 2, 227-232	2
1207	Numerical and Experimental Investigations of Heat Generation during Friction Stir Processing of Copper. <b>2014</b> , 97, 1069-1078	18
1206	Fatigue Fracture Mechanism on Friction Stir Spot Welded Joints Using 300 MPa-class Automobile Steel Sheets under Constant and Variable Force Amplitude. <b>2014</b> , 3, 537-543	10
1205	Processing-Microstructure Relationships in Friction Stir Welding of MA956 Oxide Dispersion Strengthened Steel. <b>2014</b> , 1, 318-330	7
1204	Radiography and Corrosion Analysis of Sub-merged Friction Stir Welding of AA6061-T6 Alloy. <b>2014</b> , 97, 810-818	19
1203	Finite Element Simulation of Exit Hole Filling for Friction Stir Spot Welding – A Modified Technique to Apply Practically. <b>2014</b> , 97, 1265-1273	10
1202	Numerical Simulation of Temperature Distribution and Material Flow During Friction Stir Welding of Dissimilar Aluminum Alloys. <b>2014</b> , 97, 854-863	53
1201	The superplasticity of friction stir processed Al-5Mg alloy with additions of scandium and zirconium. <b>2014</b> , 105, 1218-1226	2
1200	Solid-State Welding Processes in Manufacturing. <b>2014</b> , 1-21	1
1199	Friction Stir Back Extrusion of Mg AZ31B-F: A Preliminary Investigation. <b>2014</b> , 497-503	1
1198	Full-Field Strain Behavior of Friction Stir-Welded Titanium Alloy by Digital Image Correlation. <b>2014</b> , 692, 490-496	2
1197	Equipment Modification for Friction Stir Joining Based on PLC. <b>2014</b> , 596, 52-55	
1196	Microstructure and Mechanical Properties of Friction Stir Welded Al-Zn-Mg-Cu Alloy. <b>2014</b> , 628, 7-11	

1195	Parameter Optimization of AA6061-AA7075 Dissimilar Friction Stir Welding Using the Taguchi Method. <b>2014</b> , 695, 20-23	0
1194	Evaluation of Energy Model Using Hypergeometry in Friction Stir Welding. <b>2014</b> , 984-985, 579-585	
1193	FSW Process Tolerance According to the Position and Orientation of the Tool: Requirement for the Means of Production Design. <b>2014</b> , 783-786, 1820-1825	3
1192	Unstable Temperature Distribution in Friction Stir Welding. <b>2014</b> , 2014, 1-8	4
1191	Buckling/post-buckling strength of friction stir welded aircraft stiffened panels. <b>2014</b> , 228, 178-192	3
1190	Effect of Thermal History on Microstructures and Mechanical Properties of AZ31 Magnesium Alloy Prepared by Friction Stir Processing. <b>2014</b> , 7, 1573-1589	41
1189	Analysis of the Main Factors Affecting the Surface Morphology of FSJ Joint. <b>2014</b> , 1027, 183-186	1
1188	Forming of Metal Matrix Composites. <b>2014</b> , 159-186	6
1187	Optimization of Tensile Properties Based on Spin Tool Shoulder Geometry for Friction Stir Welded 6061 Aluminum Alloy. <b>2014</b> , 568-570, 1680-1683	
1186	Robotic Friction Stir Welding of AA5754 Aluminum Alloy Sheets at Different Initial Temper States. <b>2014</b> , 622-623, 540-547	3
1185	On Line Monitoring of Quality of Friction Surfacing. <b>2014</b> , 875-877, 1285-1290	1
1184	Behaviour of Friction Stir Welded Joints Made out of Two Aluminium Alloys under Cyclic Loading Conditions. <b>2014</b> , 891-892, 1463-1468	
1183	Texture Evolution of Friction-Stir-Welded 5A30 Aluminum Alloy Plate. <b>2014</b> , 599-601, 136-139	
1182	Effect of Strain Hardening on the Joint Efficiency of an Al-Mg-Sc-Zr Alloy Subjected to Friction Stir Welding. <b>2014</b> , 922, 463-468	1
1181	Contributions of Grain Boundary Sliding and Solute Drag Creep to High-Temperature Ductility in Fine-Grained Polycrystalline 5083 Alloys. <b>2014</b> , 922, 360-365	1
1180	Numerical Investigation on Dissimilar Friction Stir Welding of Aluminum and Magnesium Sheets. <b>2014</b> , 622-623, 532-539	5
1179	CIRP Encyclopedia of Production Engineering. <b>2014</b> , 1305-1310	
1178	Effect of rotation speeds on microstructures and tensile properties of submerged friction stir processed AZ31 magnesium alloy. <b>2014</b> , 18, S4-152-S4-156	8

1177	Reducing bubbles in friction lap welded joint of magnesium alloy and polyamide. <b>2014</b> , 19, 578-587	45
1176	Fatigue Behaviour of Aluminium Lap Joints Produced by Laser Beam and Friction Stir Welding. <b>2014</b> , 74, 293-296	8
1175	Force and torque in friction stir welding. <b>2014</b> , 459-498	10
1174	Tribological aspects in friction stir welding and processing. <b>2014</b> , 329-386	3
1173	Friction stir welding of dissimilar metals. <b>2014</b> , 241-293	16
1172	Mechanical properties. <b>2014</b> , 141-197	
1171	Microstructural evolution. <b>2014</b> , 65-140	27
1170	General introduction. <b>2014</b> , 1-19	13
1169	Microstructural Characterization of Pure Copper Tubes Produced by a Novel Method Friction Stir Back Extrusion. <b>2014</b> , 5, 1502-1508	25
1168	Deformation Characterization of Friction-Stir-Welded Tubes by Hydraulic Bulge Testing. <b>2014</b> , 66, 2137-2144	3
1167	Numerical studies of effect of tool sizes and pin shapes on friction stir welding of AA2024-T3 alloy. <b>2014</b> , 24, 3293-3301	17
1166	Multi objective optimization of friction stir welding parameters using FEM and neural network. <b>2014</b> , 15, 2351-2356	50
1165	Joining of Oxide Dispersion Strengthened Steels for Advanced Reactors. <b>2014</b> , 66, 2442-2457	16
1164	Applied torque control of friction stir welding using motor current as feedback. <b>2014</b> , 228, 947-958	6
1163	Friction Stir Welding of Austenitic Stainless Steel by PCBN Tool and its Joint Analyses. <b>2014</b> , 6, 135-139	13
1162	Submerged friction stir weld of polyethylene sheets. <b>2014</b> , 131, n/a-n/a	15
1161	Microstructure mapping of a friction stir welded AA2050 Al <sub>3</sub> Sc-Cu in the T8 state. <b>2014</b> , 94, 1451-1462	47
1160	. <b>2014</b> ,	4

1159	Fatigue Behaviour of S235JR Steel after Surface Frictional-Mechanical Treatment in Corrosive Environment. <b>2014</b> , 598, 105-112	1
1158	Experimental and Numerical Study on Linear Friction Welding of AA2011 Aluminum Alloy. <b>2014</b> , 611-612, 1511-1518	3
1157	Superplastic Forming of Multipass Friction Stir Processed Aluminum-Magnesium Alloy. <b>2014</b> , 45, 6207-6216	10
1156	Statistical aspects of fatigue crack growth life of base metal, weld metal and heat affected zone in FSWed 7075-T651 aluminum alloy. <b>2014</b> , 28, 3957-3962	4
1155	Pinless friction stir welding of AA2024-T3 joint and its failure modes. <b>2014</b> , 20, 439-443	4
1154	Emerging applications for magnesium alloy powders. <b>2014</b> , 57, 236-241	4
1153	Microstructure and hardness of friction stir welded aluminium-copper matrix-based composite reinforced with 10 wt-% SiCp. <b>2014</b> , 18, S6-84-S6-89	13
1152	Effect of Weld Side Combination on Mechanical Properties of Double Sided Friction Stir Welded 5083 Aluminum Alloy. <b>2014</b> , 699, 169-174	
1151	Bending and Stamping Processes of FSWed Thin Sheets in AA1050 Alloy. <b>2014</b> , 622-623, 459-466	4
1150	Friction Stir Welding of an Al-Mg-Sc-Zr Alloy with Ultra-Fined Grained Structure. <b>2014</b> , 794-796, 365-370	1
1149	Effect of Tool Pin Thread Forms on Friction Stir Weldability of Different Aluminum Alloys. <b>2014</b> , 90, 637-642	28
1148	Effect of Welding Parameters on Mechanical and Microstructural Properties of Dissimilar Aluminum Alloy Joints Produced by Friction Stir Welding. <b>2014</b> , 592-594, 250-254	2
1147	Friction Stir Lap Welding of Aluminium Alloys. <b>2014</b> , 611-612, 1421-1428	
1146	Characteristics of Fatigue Cracks Propagating in Different Directions of FSW Joints Made of 5754-H22 and 6082-T6 Alloys. <b>2014</b> , 794-796, 371-376	3
1145	Tensile Properties and Fracture Behavior of Aluminum Alloy Foam Fabricated from Die Castings without Using Blowing Agent by Friction Stir Processing Route. <b>2014</b> , 7, 2382-2394	11
1144	Numerical Analysis of Multi-Field Coupled Phenomena in Friction Stir Welding and Applications. <b>2014</b> , 783-786, 1794-1807	
1143	Friction Stir Welding of Al Alloys: Analysis through a Multi-Objective Optimization Tool. <b>2014</b> , 783-786, 1729-1734	
1142	Influence of processing speed on microstructures and mechanical properties of friction stir processed Mg-Al-Ni-Zr casting alloy. <b>2014</b> , 18, S4-142-S4-147	2

1141	Improvement in Fatigue Strength of Friction Stir Welded Aluminum Alloy Plates by Laser Peening. <b>2014</b> , 891-892, 969-973	2
1140	Effect of R-DSFSW on Mechanical and Metallurgical Properties of Commercial Pure Aluminum. <b>2014</b> , 5, 795-801	
1139	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of a HPDC Magnesium Alloy. <b>2014</b> , 783-786, 1735-1740	3
1138	Improvement of Structural and Mechanical Properties of Al-1100 Alloy via Friction Stir Processing. <b>2014</b> , 23, 3786-3793	12
1137	Friction Stir Welding as an Effective Alternative Technique for Light Structural Alloys Mixed Joints. <b>2014</b> , 81, 74-83	8
1136	Mathematical Modeling of Weld Phenomena, Part 1: Finite-Element Modeling. <b>2014</b> , 101-109	7
1135	Microstructure and Cryogenic Mechanical Properties of AA5083 Joints Prepared by Friction Stir Welding. <b>2014</b> , 788, 243-248	4
1134	Dynamics of Electrical Conduction Field of the Sliding Current Collector. <b>2014</b> , 698, 258-263	3
1133	Friction Stir Welding of Aluminum Metal Matrix Composite Containers for Electric Components. <b>2014</b> , 611-612, 1445-1451	4
1132	Effect of Operational Parameters on AA2014 Friction Stir Weldments Using Plain Cylindrical Tool. <b>2014</b> , 592-594, 216-223	
1131	Springback of Friction Stir Welded Sheets Made of Aluminium Grades during V-Bending: An Experimental Study. <b>2014</b> , 2014, 1-15	2
1130	Friction Stir Spot Welding: A Review on Joint Macro- and Microstructure, Property, and Process Modelling. <b>2014</b> , 2014, 1-11	43
1129	Processing Parameters Influence on Wear Resistance Behaviour of Friction Stir Processed Al-TiC Composites. <b>2014</b> , 2014, 1-12	23
1128	Sustainable design and manufacture of lightweight vehicle structures. <b>2014</b> , 433-461	3
1127	Numerical Analysis of Aluminum Cellular Beams with Cells of Different Arrangement. <b>2014</b> , 1020, 158-164	5
1126	Microstructure, microhardness and corrosion susceptibility of friction stir welded AlMgSiCu alloy. <b>2014</b> , 54, 760-765	25
1125	Effect of subsequent tension and annealing on microstructure evolution and strength enhancement of friction stir welded Mg alloys. <b>2014</b> , 602, 1-10	30
1124	Analytical bonding criteria for joint integrity prediction in friction stir welding of aluminum alloys. <b>2014</b> , 214, 2102-2111	14

1123	Natural aging in friction stir welded 7136-T76 aluminum alloy. <b>2014</b> , 60, 295-301	31
1122	Tool wear and its effect on microstructure and properties of friction stir processed Ti-6Al-4V. <b>2014</b> , 146, 512-522	30
1121	A novel approach to develop aluminum matrix nano-composite employing friction stir welding technique. <b>2014</b> , 53, 217-225	121
1120	Friction stir welding: Process, automation, and control. <b>2014</b> , 16, 56-73	292
1119	Reliability Analysis and Evaluation of Automobile Welding Structure. <b>2014</b> , 30, 1293-1300	9
1118	Transient thermal behaviour in a model of linear friction welding. <b>2014</b> , 86, 89-101	
1117	Dissimilar friction stir welding of Ti-6Al-4V alloy and aluminum alloy employing a modified butt joint configuration: Influences of process variables on the weld interfaces and tensile properties. <b>2014</b> , 53, 838-848	84
1116	Joining of Nylon 6 plate by friction stir welding process using threaded pin profile. <b>2014</b> , 53, 302-307	97
1115	Design features for bobbin friction stir welding tools: Development of a conceptual model linking the underlying physics to the production process. <b>2014</b> , 54, 632-643	69
1114	Welding processes for wear resistant overlays. <b>2014</b> , 16, 4-25	124
1113	Experimental Investigation of Three-Dimensional (3-D) Material Flow Pattern in Thick Dissimilar 2050 Friction-Stir Welds. <b>2014</b> , 45, 563-578	13
1112	Investigation into the Influence of Post-Weld Heat Treatment on the Friction Stir Welded AA6061 Al-Alloy Plates with Different Temper Conditions. <b>2014</b> , 45, 864-877	110
1111	EBSD Analysis of Friction Stir Weld Textures. <b>2014</b> , 66, 149-155	30
1110	Superplasticity of the rolled and friction stir processed Al-5Mg-0.35Sc-0.15Zr alloy. <b>2014</b> , 590, 239-245	36
1109	Influence of tube spinning on formability of friction stir welded aluminum alloy tubes for hydroforming application. <b>2014</b> , 607, 245-252	9
1108	Friction stir welding of co-cast aluminium clad sheet. <b>2014</b> , 19, 9-14	7
1107	Establishing a correlation between interfacial microstructures and corrosion initiation sites in Al/Cu joints by SEM-EDS and AFM-KPFM. <b>2014</b> , 79, 148-158	56
1106	A review of numerical analysis of friction stir welding. <b>2014</b> , 65, 1-66	299

1105	Microstructure evolution during high strain rate tensile deformation of a fine-grained AZ91 magnesium alloy. <b>2014</b> , 590, 80-87	31
1104	Surface modification of Ti-6Al-4V alloy via friction-stir processing: Microstructure evolution and dry sliding wear performance. <b>2014</b> , 239, 160-170	44
1103	Achieving ultrafine-grained structure in a pure nickel by friction stir processing with additional cooling. <b>2014</b> , 56, 848-851	28
1102	Improving mechanical properties of friction stir welded AA2024-T3 joints by using a composite backplate. <b>2014</b> , 598, 312-318	36
1101	Influence of probe offset distance on interfacial microstructure and mechanical properties of friction stir butt welded joint of Ti6Al4V and A6061 dissimilar alloys. <b>2014</b> , 57, 269-278	64
1100	Microstructural evolution of the thermomechanically affected zone in a Ti-6Al-4V friction stir welded joint. <b>2014</b> , 78-79, 17-20	41
1099	Effect of weld curvature radius and tool rotation direction on joint microstructure in friction stir welding casting alloys. <b>2014</b> , 53, 124-128	4
1098	Defects and tensile properties of 6013 aluminum alloy T-joints by friction stir welding. <b>2014</b> , 57, 146-155	63
1097	Friction stir welding of dissimilar materials between AA6061 and AA7075 Al alloys effects of process parameters. <b>2014</b> , 56, 185-192	218
1096	Welding equality and mechanical properties of aluminum alloys joints prepared by friction stir welding. <b>2014</b> , 56, 929-936	25
1095	Effect of multipass friction stir processing on corrosion resistance of hypereutectic Al-30Si alloy. <b>2014</b> , 83, 198-208	40
1094	Plastic deformation behavior of ultrafine-grained Al-Mg-Sc alloy. <b>2014</b> , 49, 4202-4214	13
1093	A study on natural aging behavior and mechanical properties of friction stir-welded AA6061-T6 plates. <b>2014</b> , 71, 933-941	24
1092	Microstructural and Mechanical Characteristics of Aluminum Alloy AA5754 Friction Stir Spot Welds. <b>2014</b> , 23, 898-905	19
1091	Effects of Processing Parameters on the Microstructures and Mechanical Properties of In Situ (Al <sub>3</sub> Ti + Al <sub>2</sub> O <sub>3</sub> )/Al Composites Fabricated by Hot Pressing and Subsequent Friction-Stir Processing. <b>2014</b> , 45, 2776-2791	16
1090	Effects of tool-workpiece interface temperature on weld quality and quality improvements through temperature control in friction stir welding. <b>2014</b> , 71, 165-179	66
1089	Effect of plunge speeds on hook geometries and mechanical properties in friction stir spot welding of A6061-T6 sheets. <b>2014</b> , 71, 2003-2010	36
1088	Effect of process parameters on tensile strength of friction stir welding A356/C355 aluminium alloys joint. <b>2014</b> , 28, 285-291	20



1087	Microstructure and surface mechanical property of AZ31 Mg/SiCp surface composite fabricated by Direct Friction Stir Processing. <b>2014</b> , 59, 274-278	72
1086	Effect of tool pin profile on microstructure and mechanical properties of friction stir welded AZ31B magnesium alloy. <b>2014</b> , 59, 221-226	81
1085	Fatigue life improvement by friction stir processing of 5083 aluminium alloy MIG butt welds. <b>2014</b> , 70, 68-74	48
1084	The effect of SiC nanoparticles on the friction stir processing of severely deformed aluminum. <b>2014</b> , 602, 110-118	33
1083	Numerical simulation and experimental investigation on friction stir welding of 6061-T6 aluminum alloy. <b>2014</b> , 60, 94-101	47
1082	On the joining of steel and aluminium by means of a new friction melt bonding process. <b>2014</b> , 77, 25-28	47
1081	On the role of pin geometry in microstructure and mechanical properties of AA7075/SiC nano-composite fabricated by friction stir welding technique. <b>2014</b> , 53, 519-527	115
1080	Effect of self-support friction stir welding on microstructure and microhardness of 6082-T6 aluminum alloy joint. <b>2014</b> , 55, 197-203	64
1079	Achieving friction stir welded SiCp/Al <sub>70</sub> Ti <sub>20</sub> Mg composite joint of nearly equal strength to base material at high welding speed. <b>2014</b> , 589, 271-274	37
1078	Microstructure and mechanical properties of friction spot welded 6061-T4 aluminum alloy. <b>2014</b> , 54, 766-778	88
1077	Effects of nano-Al <sub>2</sub> O <sub>3</sub> particle addition on grain structure evolution and mechanical behaviour of friction-stir-processed Al. <b>2014</b> , 602, 143-149	66
1076	Grain size and particle dispersion effects on the tensile behavior of friction stir welded MA956 oxide dispersion strengthened steel from low to elevated temperatures. <b>2014</b> , 589, 217-227	34
1075	Influence of tool geometries and process variables on friction stir butt welding of Al <sub>70</sub> 5%Cu/TiC in situ metal matrix composites. <b>2014</b> , 59, 406-414	28
1074	Cold metal transfer spot plug welding of AA6061-T6-to-galvanized steel for automotive applications. <b>2014</b> , 585, 622-632	61
1073	The influence of assembly friction stir weld location on wing panel static strength. <b>2014</b> , 76, 56-64	9
1072	Enhanced mechanical properties in friction stir welded low alloy steel joints via structure refining. <b>2014</b> , 606, 322-329	23
1071	Mechanical behaviour of dissimilar friction stir welded tailor welded blanks in Al-Mg alloys for Marine applications. <b>2014</b> , 59, 323-332	23
1070	Mechanical Properties and Microstructure of 6082-T6 Aluminum Alloy Joints by Self-support Friction Stir Welding. <b>2014</b> , 30, 1243-1250	55



1051	Friction-stir welding of an Al-Mg-Sc-Zr alloy in as-fabricated and work-hardened conditions. <b>2014</b> , 600, 159-170	45
1050	Numerical and experimental investigation of FSP of PA 6/MWCNT composite. <b>2014</b> , 214, 2300-2315	23
1049	Evolution of microstructure and hardness of aluminum after friction stir processing. <b>2014</b> , 24, 975-981	32
1048	Influence of rotational speed on mechanical properties of friction stir lap welded 6061-T6 Al alloy. <b>2014</b> , 24, 1004-1011	22
1047	Joining of metal to plastic using friction lap welding. <b>2014</b> , 54, 236-244	193
1046	Low cycle fatigue properties of friction stir welded joints of a semi-solid processed AZ91D magnesium alloy. <b>2014</b> , 56, 1-8	25
1045	RETRACTED: Elucidating of rotation speed in friction stir welding of pure copper: Thermal modeling. <b>2014</b> , 81, 296-302	10
1044	Prediction of mechanical and wear properties of copper surface composites fabricated using friction stir processing. <b>2014</b> , 55, 224-234	53
1043	Numerical investigation on the mechanical, thermal, metallurgical and material flow characteristics in friction stir welding of copper sheets with experimental verification. <b>2014</b> , 55, 619-632	50
1042	Exploring the effects of SiC reinforcement incorporation on mechanical properties of friction stir welded 7075 aluminum alloy: Fatigue life, impact energy, tensile strength. <b>2014</b> , 595, 173-178	61
1041	Strain-Controlled Low-Cycle Fatigue Behavior of Friction Stir-Welded AZ31 Magnesium Alloy. <b>2014</b> , 45, 2101-2115	14
1040	Evolution of the Microstructure and Strength in the Nugget Zone of Friction Stir Welded SiCp/Al-Ti-Mg Composite. <b>2014</b> , 30, 54-60	47
1039	Non-uniform deformation in a friction stir welded Mg-Al-Zn joint during stress fatigue. <b>2014</b> , 59, 9-13	19
1038	Nano-hydroxyapatite reinforced AZ31 magnesium alloy by friction stir processing: a solid state processing for biodegradable metal matrix composites. <b>2014</b> , 25, 975-88	67
1037	Friction surfacing—A review. <b>2014</b> , 214, 1062-1093	134
1036	Comparison of mechanical properties of pure copper welded using friction stir welding and tungsten inert gas welding. <b>2014</b> , 16, 296-304	26
1035	Ultrasonic thermometry for friction stir spot welding. <b>2014</b> , 49, 226-235	10
1034	Effect of microstructure on the uniaxial tensile deformation behavior of Mg-Y-BE alloy. <b>2014</b> , 590, 116-131	44

1033	Effect of Carbon Nanotube Orientation on Mechanical Properties and Thermal Expansion Coefficient of Carbon Nanotube-Reinforced Aluminum Matrix Composites. <b>2014</b> , 27, 901-908	31
1032	Shape Memory Alloy-Reinforced Metal-Matrix Composites: A Review. <b>2014</b> , 27, 739-761	30
1031	Emission of nanoparticles during friction stir welding (FSW) of aluminium alloys. <b>2014</b> , 77, 924-30	5
1030	Improvement in grain refinement efficiency of Mg-Zr master alloy for magnesium alloy by friction stir processing. <b>2014</b> , 2, 239-244	24
1029	Multi Objective Optimization of Friction Stir Welding Parameters for Joining of Two Dissimilar Thin Aluminum Sheets. <b>2014</b> , 6, 178-187	42
1028	Microstructure and Mechanical Properties of 316L Stainless Steel Filling Friction Stir-Welded Joints. <b>2014</b> , 23, 3718-3726	11
1027	Grain Growth Behavior and Hall-Petch Strengthening in Friction Stir Processed Al 5059. <b>2014</b> , 45, 5635-5644	25
1026	Friction Stir Welding of Discontinuously Reinforced Aluminum Matrix Composites: A Review. <b>2014</b> , 27, 816-824	35
1025	An Energy Absorption Behaviour of Foam Filled Structures. <b>2014</b> , 5, 164-172	20
1024	Influence of Traverse Speed on Microstructure and Mechanical Properties of AA6082-TiC Surface Composite Fabricated by Friction Stir Processing. <b>2014</b> , 5, 2115-2121	17
1023	Overview of coating technologies. <b>2014</b> , 1-24	4
1022	Mechanical and microstructural characterization of friction stir welded skin and stringer joints. <b>2014</b> , 228, 278-290	3
1021	Numerical investigations of size effects on residual states of friction stir weld. <b>2014</b> , 228, 572-581	14
1020	Thermal energy generation and distribution in friction stir welding of aluminum alloys. <b>2014</b> , 77, 720-731	108
1019	Microstructure-property characterization of a friction-stir welded joint between AA5059 aluminum alloy and high density polyethylene. <b>2014</b> , 98, 73-82	77
1018	Effect of Grain Size on the Corrosion Resistance of Friction Stir Welded Mg Alloy AZ31B Joints. <b>2014</b> , 161, C405-C411	27
1017	Corrosion and Cavitation Erosion Behaviors of Friction Stir Processed Ni-Al Bronze: Effect of Processing Parameters and Position in the Stirred Zone. <b>2014</b> , 70, 261-270	25
1016	Tool wear mechanisms in friction stir welding of Ti-6Al-4V alloy. <b>2014</b> , 321, 25-32	70

1015	Influence of water cooling on microstructure and mechanical properties of friction stir welded 2014Al-T6 joints. <b>2014</b> , 614, 6-15	55
1014	Studying microstructure and mechanical properties of SiC-incorporated AZ31 joints fabricated through FSW: the effects of rotational and traveling speeds. <b>2014</b> , 75, 1189-1196	30
1013	Friction stir welding window for AA6061-T6 aluminium alloy. <b>2014</b> , 228, 1172-1181	24
1012	On the cold rolling of AZ31 Mg alloy after Equal Channel Angular Pressing. <b>2014</b> , 2, 203-207	10
1011	Time Efficient Simulations of Plunge and Dwell Phase of FSW and its Significance in FSSW. <b>2014</b> , 5, 630-639	12
1010	Microstructural evolution and mechanical properties of friction stir welded joint of Fe-13Mn-0.02Mo austenite stainless steel. <b>2014</b> , 64, 355-359	38
1009	Experimental Study of the Forces Acting on the Tool in the Friction-Stir Welding of AA 2024 T3 Sheets. <b>2014</b> , 23, 3754-3761	43
1008	Thermomechanical deformation behaviour of DH36 steel during friction stir welding by experimental validation and modelling. <b>2014</b> , 19, 653-663	14
1007	Improvement of wear resistance of sprayed layer on 52100 steel by friction stir processing. <b>2014</b> , 316, 501-507	21
1006	Friction stir welding of mild steel: tool durability and steel microstructure. <b>2014</b> , 30, 1050-1056	31
1005	Effects of use of higher strength interlayer and external cooling on properties of friction stir welded AA6061-T6 joints. <b>2014</b> , 19, 715-720	105
1004	Surface reinforcements of light alloys. <b>2014</b> , 113-152	0
1003	Effect of post-weld heat treatment on dissimilar friction stir welded AA6063 and A319 aluminium alloys. <b>2014</b> , 105, 507-511	3
1002	Welding Aspects of Aluminum-Lithium Alloys. <b>2014</b> , 259-302	2
1001	Micro- and Macro- Mechanical Properties of Pinless Friction Stir Welded Joints in AA5754 Aluminium Thin Sheets. <b>2014</b> , 18, 9-14	16
1000	Serration behavior and shear band characteristics during tensile deformation of an ultrafine-grained 5024 Al alloy. <b>2014</b> , 616, 189-195	12
999	Experimental Investigation of Tool Geometry on Mechanical Properties of Friction Stir Welding of AA 2014 Aluminium Alloy. <b>2014</b> , 5, 824-831	33
998	In situ formation of Al <sub>3</sub> Ni composites on commercially pure aluminium by friction stir processing. <b>2014</b> , 75, 1331-1337	22

997	Influence of welding parameter on mechanical properties and fracture behavior of friction stir welded Al-Mg-Bi joints. <b>2014</b> , 612, 236-245	43
996	Microstructure and Mechanical Properties of AZ31B Magnesium Alloy by Friction Stir Welding. <b>2014</b> , 6, 1600-1609	29
995	Microstructure and mechanical properties of friction stir welded 18Cr-2Mo ferritic stainless steel thick plate. <b>2014</b> , 63, 238-246	38
994	Investigation on dissimilar underwater friction stir lap welding of 6061-T6 aluminum alloy to pure copper. <b>2014</b> , 64, 74-80	88
993	Wear assessment of composite surface layers in Al-Mg alloy reinforced with AlCuFe quasicrystalline particles: Effects of particle size, microstructure and hardness. <b>2014</b> , 319, 84-95	41
992	Optimization of microstructural and mechanical properties of friction stir welding using the cellular automaton and Taguchi method. <b>2014</b> , 64, 660-666	41
991	Effects of Artificial Aging and Precipitation on Tensile Mechanical Properties and Failure Mechanism of the Friction Stir Processed Dual-phase Mg-Li Alloy. <b>2014</b> , 75, 88-92	2
990	Microstructure and mechanical properties of friction stir processed Al-Mg-Si alloys dispersion-strengthened by nanosized TiB <sub>2</sub> particles. <b>2014</b> , 616, 128-136	46
989	Influences of Tool Geometry on Metallurgical and Mechanical Properties of Friction Stir Welded Dissimilar AA 2024 and AA 5052. <b>2014</b> , 75, 154-158	4
988	Friction stir welding of as-extruded Mg-Al-Zn alloy with higher Al content. Part II: Influence of precipitates. <b>2014</b> , 96, 135-141	15
987	Aging of medium strength aluminum alloy friction stir welds produced by different process parameter after tensile strain hardening. <b>2014</b> , 147, 1123-1133	4
986	Studies on Effect of Tool Design and Welding Parameters on the Friction Stir Welding of Dissimilar Aluminium Alloys AA 5052 and AA 6061. <b>2014</b> , 75, 93-97	34
985	Friction stir welding of as-extruded Mg-Al-Zn alloy with higher Al content. Part I: Formation of banded and line structures. <b>2014</b> , 96, 142-150	19
984	Cellular automaton modelling of dynamic recrystallisation microstructure evolution during friction stir welding of titanium alloy. <b>2014</b> , 30, 700-711	29
983	Low Cost Friction Stir Welding of Aluminium Nanocomposite – A Review. <b>2014</b> , 6, 1761-1769	8
982	A Novel Approach for Fabrication of Cu-Al <sub>2</sub> O <sub>3</sub> Surface Composites by Friction Stir Processing. <b>2014</b> , 5, 434-443	12
981	Fabrication and characterization of functionally graded Al-SiC nanocomposite by using a novel multistep friction stir processing. <b>2014</b> , 63, 419-426	59
980	Microstructure and Strain Hardening of a Friction Stir Welded High-Strength Al-Zn-Mg Alloy. <b>2014</b> , 27, 723-729	16

979	Friction stir processing. <b>2014</b> , 73-111	4
978	Mechanical Properties, Microstructure and Crystallographic Texture of Magnesium AZ91-D Alloy Welded by Friction Stir Welding (FSW). <b>2014</b> , 45, 4983-4996	19
977	Solid mechanics-based Eulerian model of friction stir welding. <b>2014</b> , 72, 1647-1653	35
976	A fundamental investigation on rotating tool cold expansion: numerical and experimental perspectives. <b>2014</b> , 73, 1189-1200	9
975	Effective predictions of ultimate tensile strength, peak temperature and grain size of friction stir welded AA2024 alloy joints. <b>2014</b> , 73, 1213-1218	19
974	Predictions of the optimized friction stir welding process parameters for joining AA7075-T6 aluminum alloy using preheating system. <b>2014</b> , 73, 1717-1737	22
973	Numerical analysis of heat generation and temperature field in reverse dual-rotation friction stir welding. <b>2014</b> , 74, 319-334	20
972	Low-cycle fatigue of a friction stir welded 2219-T62 aluminum alloy at different welding parameters and cooling conditions. <b>2014</b> , 74, 209-218	25
971	Effects of deep cryogenic treatment and low-temperature aging on the mechanical properties of friction-stir-welded joints of 2024-T351 aluminum alloy. <b>2014</b> , 609, 147-153	22
970	Characterization, Removal and Evaluation of Oxide Film in the Diffusion Bonding of Zr55Cu30Ni5Al10 Bulk Metallic Glass. <b>2014</b> , 30, 722-730	6
969	Characterization of friction stir welded boron carbide particulate reinforced AA6061 aluminum alloy stir cast composite. <b>2014</b> , 55, 176-182	67
968	Processing and Deformation Characteristics of Metals Reinforced with Ceramic Nanoparticles. <b>2014</b> , 269-304	19
967	Investigations for the effect of parameters on the weld performance of AA 5083-H111 joined by friction stir welding. <b>2014</b> , 228, 937-946	11
966	Superplasticity in and Superplastic Forming of Aluminum-Lithium Alloys. <b>2014</b> , 221-258	3
965	Texture Development in a Friction Stir Lap-Welded AZ31B Magnesium Alloy. <b>2014</b> , 45, 4333-4349	17
964	Optimizing Powder Distribution in Production of Surface Nano-Composite via Friction Stir Processing. <b>2014</b> , 45, 821-826	21
963	Production of Wire From AA7277 Aluminum Chips via Friction-Stir Extrusion (FSE). <b>2014</b> , 45, 1484-1489	26
962	Characterization of the Influence of Tool Pin Profile on Microstructural and Mechanical Properties of Friction Stir Welding. <b>2014</b> , 45, 1887-1894	52

961	Effect of Pin Length on Hook Size and Joint Properties in Friction Stir Lap Welding of 7B04 Aluminum Alloy. <b>2014</b> , 23, 1881-1886	23
960	Modeling the Material Flow and Heat Transfer in Reverse Dual-Rotation Friction Stir Welding. <b>2014</b> , 23, 2918-2929	21
959	A Preliminary Study of Deformation Behavior of Friction Stir Welded Ti-6Al-4V. <b>2014</b> , 23, 3027-3033	12
958	Role of Tool Shoulder Diameter in Friction Stir Welding: An Analysis of the Temperature and Plastic Deformation of AA 2014 Aluminium Alloy. <b>2014</b> , 67, 769-780	23
957	Effects of Pin Shape on the Tool Plunge Stage in Friction Stir Welding. <b>2014</b> , 67, 989-995	11
956	The potential adaptation of stationary shoulder friction stir welding technology to steel. <b>2014</b> , 64, 614-624	22
955	Effect of Preheat Temperature on Friction Stir Welded Aluminum Alloy 5052 Joints. <b>2014</b> , 597, 253-256	3
954	Effect of post-weld natural aging on mechanical and microstructural properties of friction stir welded 6063-T4 aluminium alloy. <b>2014</b> , 64, 675-686	14
953	A Comparison of FSW, BHLW and TIG Joints for Al-Si-Mg Alloy (EN AW-6082 T6). <b>2014</b> , 18, 120-125	6
952	Characterization of oxide dispersion strengthened copper based materials developed by friction stir processing. <b>2014</b> , 60, 343-357	65
951	Fabrication and mechanical properties of bulk NiTi/Al composites prepared by friction stir processing. <b>2014</b> , 586, 368-374	76
950	Friction taper plug welding for S355 steel in underwater wet conditions: Welding performance, microstructures and mechanical properties. <b>2014</b> , 611, 15-28	43
949	Using a neural network for qualitative and quantitative predictions of weld integrity in solid bonding dominated processes. <b>2014</b> , 135, 1-9	12
948	Improvement in cavitation erosion resistance of AISI 316L stainless steel by friction stir processing. <b>2014</b> , 308, 184-192	77
947	Fatigue life estimation of ultrasonic spot welded Mg alloy joints. <b>2014</b> , 62, 124-132	23
946	Fatigue life improvement of mig welded aluminium T-joints by friction stir processing. <b>2014</b> , 61, 244-254	43
945	Growth kinetics of Al <sub>3</sub> Be intermetallic compounds during annealing treatment of friction stir lap welds. <b>2014</b> , 90, 121-126	29
944	Modification of mechanical properties of friction stir welded Cu joint by additional liquid CO <sub>2</sub> cooling. <b>2014</b> , 56, 20-25	52



943	Thermal history in UNS S32205 duplex stainless steel friction stir welds. <b>2014</b> , 19, 150-156	40
942	Characterisation of periodic variation in torque occurred in friction stir welding process. <b>2014</b> , 19, 350-354	6
941	Friction stir welding of mild steel to alloy 625 âdevelopment of welding parameters. <b>2014</b> , 19, 343-349	12
940	Effects of Initial Temper Condition and Postweld Heat Treatment on the Properties of Dissimilar Friction-Stir-Welded Joints between AA7075 and AA6061 Aluminum Alloys. <b>2014</b> , 45, 3074-3087	119
939	Effects of temper condition and post weld heat treatment on the microstructure and mechanical properties of friction stir butt-welded AA7075 Al alloy plates. <b>2014</b> , 70, 201-213	108
938	A study of the temperature field during ultrasonic-assisted friction-stir welding. <b>2014</b> , 73, 321-327	36
937	Study of ultrasonic vibrationsâeffect on friction stir welding. <b>2014</b> , 73, 127-135	75
936	Optimization of process parameters for friction stir processing (FSP) of AlâTiC in situ composite. <b>2014</b> , 37, 571-578	19
935	Analysis of the unstressed lattice spacing, $d_0$ , for the determination of the residual stress in a friction stir welded plate of an age-hardenable aluminum alloy âUse of equilibrium conditions and a genetic algorithm. <b>2014</b> , 74, 189-199	16
934	Effect of friction stir processing on erosionâcorrosion behavior of nickelâaluminum bronze. <b>2014</b> , 62, 282-287	26
933	Fabrication and compression properties of functionally graded foam with uniform pore structures consisting of dissimilar A1050 and A6061 aluminum alloys. <b>2014</b> , 613, 163-170	45
932	Friction Stir Welding of Age-Hardenable Aluminum Alloys: A Parametric Approach Using RSM Based GRA Coupled With PCA. <b>2014</b> , 95, 127-141	16
931	Microstructure and tensile properties of a friction stir welded AlâMgâBi alloy. <b>2014</b> , 105, 883-893	5
930	Sustainable and green manufacturing and materials design through computations. <b>2014</b> , 228, 1581-1605	7
929	Enhanced mechanical properties of 70/30 brass joint by rapid cooling friction stir welding. <b>2014</b> , 610, 132-138	55
928	Effect of tool geometry on friction stir processing and fatigue strength of MIG T welds on Al alloys. <b>2014</b> , 214, 2450-2460	16
927	Formation and mechanical properties of stationary shoulder friction stir welded 6005A-T6 aluminum alloy. <b>2014</b> , 62, 113-117	68
926	Microstructure and mechanical properties of friction stir weld of dissimilar AZ31-O magnesium alloy to 6061-T6 aluminum alloy. <b>2014</b> , 24, 1317-1322	49

925	Effects of post-annealing on the microstructure and mechanical properties of friction stir processed Al <sub>3</sub> Mg <sub>2</sub> TiO <sub>2</sub> nanocomposites. <b>2014</b> , 63, 30-41	36
924	Texture of friction stir welded Ti <sub>6</sub> Al <sub>4</sub> V alloy. <b>2014</b> , 24, 368-372	19
923	Effect of Friction Stir Processing on the Microstructural Evolution and Tensile Behaviors of an $\alpha/\beta$ ; Dual-Phase Mg-Li-Al-Zn Alloy. <b>2014</b> , 55, 371-377	6
922	Technical Topics and Automobile Applications of Friction Stir Welding. <b>2014</b> , 53, 603-607	5
921	Hall-Petch Tensile Yield Stress and Grain Size Relation of Al-5Mg-0.5Mn Alloy in Friction-Stir-Processed and Post-Thermal-Exposed Conditions. <b>2014</b> , 55, 357-362	5
920	Mechanical Properties and Tool Life of Friction-Stir-Welded DP590 Using the Si <sub>3</sub> N <sub>4</sub> Tool. <b>2014</b> , 55, 1557-1563	5
919	EBSD Analysis of Microstructure Evolution of Pure Iron Subjected to Sliding Wear and Related Change in Vickers Microhardness. <b>2014</b> , 55, 85-92	5
918	Microstructural Evolution and Its Relationship to the Mechanical Properties of Mg AZ31B Friction Stir Back Extruded Tubes. <b>2014</b> , 263-268	
917	Nondestructive observation of compression behavior of pores in three-layered functionally graded aluminum foam of A1050/A6061/ADC12 by X-ray computed tomography. <b>2014</b> , 64, 587-592	
916	Study of stirred layers on 316L steel created by friction stir processing. <b>2014</b> , 63, 012007	1
915	Neutron and X-Ray Diffraction Residual Stress Measurements in Aluminium Alloys MIG Welded T-Joints after Friction Stir Processing. <b>2014</b> , 996, 439-444	4
914	Fabrication of porous aluminum by tool-traversing friction powder sintering process. <b>2014</b> , 64, 582-586	1
913	Design, Fabrication and Testing of Fixture for Implementation of a New Approach to Incorporate Tool tilting in Friction Stir Welding. <b>2014</b> , 13, 04020	4
912	Aluminum Tailor-Welded Blanks for High Volume Automotive Applications. <b>2014</b> , 265-270	1
911	Formation of Nanostructure in AISI 316L Austenitic Stainless Steel by Friction Stir Processing. <b>2015</b> , 11, 397-402	12
910	Investigations on the Effect of Tool Geometries on Friction Stir Welded 5052 H32 Aluminium Alloy. <b>2015</b> , 766-767, 712-720	
909	Finite Element Analysis of Stress-Strain Response at the Tool Pin During Friction Stir Process. <b>2015</b> , 76, 522-527	1
908	Microstructure and mechanical properties of Mg/Al bimetallic composite fabricated by compound casting. <b>2015</b> , 19, S73-S78	6

907	Parameter Optimization for Friction Stir Welding AA1100. <b>2015</b> , 813-814, 462-466	5
906	Dynamics layer of the sliding contact collector elements. <b>2015</b> ,	9
905	Evaluation of torque as a means of in-process sensing of tool wear in friction stir welding of metal matrix composites. <b>2015</b> , 42, 192-199	6
904	Experimental and Numerical Analysis of Residual Stress in Cast Aluminum Alloy after FSP Process. <b>2015</b> , 651-653, 1563-1568	4
903	Challenges in Fabrication of Surface Composites by Friction Stir Processing Route. <b>2015</b> , 93-100	2
902	Structure and Hardness of Friction Stir Welds out of High-Strength Non-Heat Hardenable Cast and Wrought Aluminum Alloys. <b>2015</b> , 830-831, 270-273	
901	Friction Stir Welding of Composite Materials with Metallic Matrix: A Brief Review. <b>2015</b> , 809-810, 449-454	4
900	Heat Reduction in a Tool Holder during Friction Stir Welding of Aluminium Alloy. <b>2015</b> , 766-767, 705-711	1
899	Evolution of the microstructure of a VT6 alloy during friction stir welding. <b>2015</b> , 2015, 301-308	2
898	Assessment Of Joints Using Friction Stir Welding And Refill Friction Stir Spot Welding Methods. <b>2015</b> , 60, 2297-2306	11
897	The Effect of Eccentricity of the Tool on the Surface Morphology of FSJ Joint. <b>2015</b> , 656-657, 387-390	
896	Investigation of the Microstructure and Corrosion Properties of Friction Stir Processed Cast NiAl Bronze. <b>2015</b> , 56, 1523-1529	11
895	Fabrication of porous aluminum plate by multi-pass friction powder sintering process. <b>2015</b> , 81, 14-00600-14-00600	
894	Frictional stir burnishing on double helical path to satisfy both high hardness and compressive residual stress. <b>2015</b> , 81, 15-00350-15-00350	3
893	Analysis of the strain behaviour of a friction stir processed superplastic aluminium alloy. <b>2015</b> , 21, 04006	
892	Effect of friction stir welding parameters on defect formation. <b>2015</b> ,	8
891	Comparative analysis of the friction stir welded aluminum-magnesium alloy joint grain structure. <b>2015</b> ,	
890	Superior Mechanical Properties of Nanostructured Light Metallic Materials and Their Innovation Potential. <b>2015</b> , 17-33	

889	Mechanical and microstructural characterization of single and double pass Aluminum AA6061 friction stir weld joints. <b>2015</b> , 100, 012016	5
888	Friction Stir Welding of Dissimilar Lightweight Metals with Addition of Adhesive. <b>2015</b> , 127-135	
887	Influence of vibrational treatment on thermomechanical response of material under conditions identical to friction stir welding. <b>2015</b> ,	
886	Corrosion behavior of the friction-stir-welded joints of 2A14-T6 aluminum alloy. <b>2015</b> , 22, 627-638	29
885	Influence of the kissing bond defect on the fatigue life in friction stir welds of 2024 aluminium alloy. <b>2015</b> , 27, 92-99	2
884	The effect of welding direction in the fatigue life of aluminium FS welded lap joints. <b>2015</b> , 6, 775-786	1
883	Microstructure and hardness investigation of different welding passes in weld zones. <b>2015</b> , 46, 492-497	
882	Al/SiCp Metal Matrix Composites Fabricated via Friction Stir Powder Processing. <b>2015</b> , 62, 258-262	1
881	Fracturing behavior of aluminum alloys with welded joints. <b>2015</b> ,	2
880	Design and experiment verification of a new heavy friction-stir-weld robot for large-scale complex surface structures. <b>2015</b> , 42, 332-338	10
879	Microestrutura de uma Solda Dissimilar entre o Aço Inoxidável Ferrítico AISI 410S e o Aço Inoxidável Austenítico AISI 304L Soldado pelo Processo FSW. <b>2015</b> , 20, 467-478	1
878	Effects of Thermal Aging on Microstructure and Corrosion Resistance of AISI 317L Steel Weld Metal in the FSW Process. <b>2015</b> , 18, 98-103	4
877	Lattice Rotation in Fe-20%Cr Alloy Single Crystals Subjected to Sliding Wear. <b>2015</b> , 64, 281-286	1
876	An Evaluation of Global and Local Tensile Properties of Friction-Stir Welded DP980 Dual-Phase Steel Joints Using a Digital Image Correlation Method. <b>2015</b> , 8, 8424-8436	21
875	Effect of Post Heat Treatment on the Microstructure and Microhardness of Friction Stir Processed NiAl Bronze (NAB) Alloy. <b>2015</b> , 5, 1695-1703	17
874	Investigation on AA5083/AA7075+Al <sub>2</sub> O <sub>3</sub> Joint Fabricated by Friction Stir Welding: Characterizing Microstructure, Corrosion and Toughness Behavior. <b>2015</b> , 18, 1156-1162	28
873	Fabrication of Friction Stir Processed Al-Ni Particulate Composite and Its Impression Creep Behaviour. <b>2015</b> , 2015, 1-9	3
872	Fabrication of Surface Level Cu/SiCp Nanocomposites by Friction Stir Processing Route. <b>2015</b> , 2015, 1-10	6

871	Effect of multi-pass friction stir processing on microstructure and mechanical properties of Al3Ti/A356 composites. <b>2015</b> , 106, 62-69	97
870	Springback and Formability Studies on Friction Stir Welded Sheets. <b>2015</b> , 141-165	1
869	Heterodyning based portable instrument for eddy currents non-destructive testing. <b>2015</b> , 73, 146-157	3
868	Friction Stir Welding of AA2024-T3 plate –the influence of different pin types. <b>2015</b> , 6, 51-55	10
867	Interface behavior and mechanical properties of 316L stainless steel filling friction stir welded joints. <b>2015</b> , 81, 577-583	5
866	Modeling of the Plastic Characteristics of AA6082 for the Friction Stir Welding Process. <b>2015</b> , 639, 309-316	1
865	Effect of Interfacial Microstructure Evolution on Mechanical Properties and Fracture Behavior of Friction Stir-Welded Al-Cu Joints. <b>2015</b> , 46, 3091-3103	48
864	Microstructural Origin of Friction Stir Processed Zone in a Magnesium Alloy. <b>2015</b> , 46, 3333-3336	4
863	Thermal Management in Friction-Stir Welding of Precipitation-Hardened Aluminum Alloys. <b>2015</b> , 67, 1022-1031	16
862	Simulation of thermal behavior during friction stir welding process for predicting residual stresses. <b>2015</b> , 6, 271-278	0
861	Part-through fracture toughness (K <sub>Ic</sub> ) and crack-tip opening displacement (CTOD) of welded joints of AA2014-T6 at low temperatures. <b>2015</b> , 71, 55-61	4
860	Influence of tool pin profile on microstructure and corrosion behaviour of AA2219 Al–Cu alloy friction stir weld nuggets. <b>2015</b> , 11, 197-208	34
859	Effect of tool pin design on the microstructural evolutions and tribological characteristics of friction stir processed structural steel. <b>2015</b> , 68, 111-116	46
858	Microstructure and tensile properties of friction stir welded dissimilar AA6061–AA5086 aluminium alloy joints. <b>2015</b> , 25, 1080-1090	57
857	Development of small sized friction stir welding equipment for hand operated welding. <b>2015</b> , 20, 249-253	2
856	Modification of the Hall–Petch equation for friction-stir-processing microstructures of high-nitrogen steel. <b>2015</b> , 640, 190-194	16
855	Optimization of friction stir welding parameters for improved corrosion resistance of AA2219 aluminum alloy joints. <b>2015</b> , 11, 330-337	79
854	Investigation of mechanical properties and microstructures of aluminum-fly ash composite processed by friction stirring. <b>2015</b> , 640, 314-319	14

853	Structure and Hardness of 01570 Aluminum Alloy Friction Stir Welds Processed Under Different Conditions. <b>2015</b> , 58, 756-761	
852	Mechanical Properties and Corrosion Resistance of Friction Stir Welded Dissimilar Aluminum Alloys 2219 to 5083. <b>2015</b> , 813-814, 203-207	
851	Microstructures and tensile properties of submerged friction stir processed AZ91 magnesium alloy. <b>2015</b> , 3, 203-209	44
850	Effect of Friction Stir Welding Process Parameters on Mechanical Properties and Macro Structure of Al-Li Alloy. <b>2015</b> , 2, 325-330	10
849	About Abnormal Grain Growth in Joints Obtained by Friction Stir Welding. <b>2015</b> , 57, 40-47	7
848	Influence of tool material and rotational speed on mechanical properties of friction stir welded AZ31B magnesium alloy. <b>2015</b> , 3, 335-344	37
847	Investigation of weld defects in friction-stir welding and fusion welding of aluminium alloys. <b>2015</b> , 10,	65
846	Friction Stir Welding of ODS and RAFM Steels. <b>2015</b> , 2, 164-172	2
845	Parametric Optimization of Age Hardenable Aluminum Alloys Using TGRA Coupled with PCA. <b>2015</b> , 813-814, 613-619	3
844	Surface Residual Stresses in Ti-6Al-4V Friction Stir Welds: Pre- and Post-Thermal Stress Relief. <b>2015</b> , 24, 3263-3270	24
843	Microstructure evolution along thickness in double-side friction stir welded 7085 Al alloy. <b>2015</b> , 25, 3212-3222	15
842	Multiobjective optimal design of friction stir welding considering quality and cost issues. <b>2015</b> , 20, 607-615	6
841	Microstructural Investigation of Friction-Stir-Welded 7005 Aluminum Alloy. <b>2015</b> , 24, 4297-4306	8
840	Natural Aging Behavior Of Friction Stir Welded Al-Zn-Mg-Cu Aluminum Alloys. <b>2015</b> , 60, 875-879	1
839	Dynamic Model Identification of Axial Force in Robotic Friction Stir Welding. <b>2015</b> , 48, 1936-1941	1
838	Effect of Heat Input on AA5052 Friction Stir Welds Characteristics. <b>2015</b> , 8, 914-923	22
837	Analysis of process parameters effects on dissimilar friction stir welding of AA1100 and A441 AISI steel. <b>2015</b> , 20, 553-562	53
836	Thermal Mechanical Modeling of the Plunge Stage During Friction-Stir Welding of Dissimilar Al 6061 to TRIP 780 Steel. <b>2015</b> , 137,	28

835	Joining of AZ31 and AZ91 Mg alloys by friction stir welding. <b>2015</b> , 3, 330-334	34
834	Characterization of the Corrosion Product Films Formed on the As-Cast and Friction-Stir Processed Ni-Al Bronze in a 3.5 wt% NaCl Solution. <b>2015</b> , 71, 606-614	33
833	Vertical compensation friction stir welding assisted by external stationary shoulder. <b>2015</b> , 68, 72-79	31
832	The dissimilar friction stir lap welding of 1A99 Al to pure Cu using Zn as filler metal with "pinless" tool configuration. <b>2015</b> , 68, 54-62	59
831	Effects of the Reversely Rotating Assisted Shoulder on Microstructures During the Reverse Dual-rotation Friction Stir Welding. <b>2015</b> , 31, 375-383	17
830	Influence of Stored Strain on Fabricating of Al/SiC Nanocomposite by Friction Stir Processing. <b>2015</b> , 46, 2021-2034	13
829	The evolution of precipitation and microstructure in friction stir welded 2195-T8 Al-Li alloy. <b>2015</b> , 626, 322-329	62
828	Suppression of hydrogen-induced damage in friction stir welded low carbon steel joints. <b>2015</b> , 94, 88-98	20
827	Dissimilar friction stir welding between polycarbonate and AA 7075 aluminum alloy. <b>2015</b> , 106, 258-266	37
826	Analytical and numerical studies of fatigue stresses in friction stir welding. <b>2015</b> , 78, 1371-1380	9
825	Thermal analysis of friction stir welding process and investigation into affective parameters using simulation. <b>2015</b> , 29, 861-866	34
824	Influence of texture on strain localization in stir zone of friction stir welded titanium. <b>2015</b> , 626, 304-308	32
823	Microstructure evolution and mechanical properties of Mg-Li alloy in different friction stir processing conditions. <b>2015</b> , 636, 12-19	39
822	Role of welding parameters on interfacial bonding in dissimilar steel/aluminum friction stir welds. <b>2015</b> , 18, 270-277	57
821	Optimizing weld quality of a friction stir welded aluminum alloy. <b>2015</b> , 222, 188-196	30
820	Friction Stir Processing of Al-TiB <sub>2</sub> In Situ Composite: Effect on Particle Distribution, Microstructure and Properties. <b>2015</b> , 24, 1116-1124	24
819	Reactive friction stir processing of AA 5052-TiO <sub>2</sub> nanocomposite: process-microstructure-mechanical characteristics. <b>2015</b> , 31, 426-435	55
818	The effect of the welding parameters and tool size on the thermal process and tool torque in reverse dual-rotation friction stir welding. <b>2015</b> , 91, 1-11	44

817	Studying of tool rotation speed on mechanical properties of copperâAl5083 butt joint welded by friction stir welding. <b>2015</b> , 229, 1734-1741	7
816	Enhancing strength, ductility and machinability of a AlâSi cast alloy by friction stir processing. <b>2015</b> , 18, 67-74	51
815	Prediction of unit process life cycle inventory (UPLCI) energy consumption in a friction stir weld. <b>2015</b> , 18, 46-54	11
814	Pin axis effects on forces in friction stir welding process. <b>2015</b> , 78, 1795-1801	12
813	Friction stir welding joint of dissimilar materials between AZ31B magnesium and 6061 aluminum alloys: Microstructure studies and mechanical characterizations. <b>2015</b> , 101, 189-207	107
812	Heterogeneity of the Nugget Microstructure in a Thick 2050 Al Friction-Stirred Weld. <b>2015</b> , 46, 300-314	19
811	Study on distribution of long-period stacking ordered phase in MgâCdâZnâZr alloy using friction stir processing. <b>2015</b> , 626, 275-285	21
810	Solid State Welding Processes in Manufacturing. <b>2015</b> , 569-592	5
809	Hot deformation behavior of an aluminum-matrix hybrid nanocomposite fabricated by friction stir processing. <b>2015</b> , 626, 458-466	40
808	Fabrication of metal matrix composites by friction stir processing with different Particles and processing parameters. <b>2015</b> , 626, 505-513	112
807	Mechanical behaviour of AA 7475 friction stir welds with the kissing bond defect. <b>2015</b> , 74, 7-19	56
806	Comparison of energy consumption and environmental impact of friction stir welding and gas metal arc welding for aluminum. <b>2015</b> , 9, 159-168	52
805	Fabrication of novel fiber reinforced aluminum composites by friction stir processing. <b>2015</b> , 632, 50-57	26
804	Friction Stir Additive Manufacturing: Route to High Structural Performance. <b>2015</b> , 67, 616-621	58
803	Characterizations of friction stir welding of dissimilar Monel400 and stainless steel 316. <b>2015</b> , 77, 573-579	12
802	Dissimilar Friction Stir Welding Between UNS S31603 Austenitic Stainless Steel and UNS S32750 Superduplex Stainless Steel. <b>2015</b> , 46, 1440-1447	15
801	Tool geometry, rotation and travel speeds effects on the properties of dissimilar magnesium/aluminum friction stir welded lap joints. <b>2015</b> , 75, 95-112	65
800	Ultrasonically assisted friction stir welding of aluminium alloy 6061. <b>2015</b> , 20, 216-221	31



799	Microstructure evolution and mechanical properties of a submerged friction-stir-processed AZ91 magnesium alloy. <b>2015</b> , 50, 3212-3225	20
798	Friction stir welding effect on transverse rigidity and sound transmission characteristics of AZ31B magnesium alloy. <b>2015</b> , 21, 64-68	
797	Prediction of temperature at weldline in air and immersed friction stir welding and its experimental validation. <b>2015</b> , 79, 1239-1246	24
796	Effect of friction stir processing on the tribological performance of Steel/Al <sub>2</sub> O <sub>3</sub> nanocomposites. <b>2015</b> , 276, 507-515	22
795	Superplastic behavior and microstructure evolution of a fine-grained Mg-7Al alloy processed by submerged friction stir processing. <b>2015</b> , 642, 157-166	29
794	Effects of heat input in friction stir welding on microstructure and mechanical properties of AA3003-H18 plates. <b>2015</b> , 25, 2147-2155	35
793	Influence of tool traverse speed on the characteristics of dissimilar friction stir welded aluminium alloy, AA5052 and HSLA steel joints. <b>2015</b> , 15, 822-830	37
792	Material flow in ultrasonic vibration enhanced friction stir welding. <b>2015</b> , 225, 32-44	56
791	Influence of fibre distribution and grain size on the mechanical behaviour of friction stir processed Mg-Al composites. <b>2015</b> , 107, 125-133	19
790	Microstructural characteristics and formation mechanism of friction stir welds of SiC particulates reinforced Al-Si matrix composites. <b>2015</b> , 158, 136-139	15
789	Ductilizing of a brittle as-cast hypereutectic Al-Si alloy by friction stir processing. <b>2015</b> , 159, 417-419	18
788	Evaluation of wear and corrosion resistance of pure Mg wire produced by friction stir extrusion. <b>2015</b> , 25, 1847-1855	23
787	Effects of friction stir processing on wear properties of WC-12%Co sprayed on 52100 steel. <b>2015</b> , 86, 98-104	22
786	Rapid surface hardening and enhanced tribological performance of 4140 steel by friction stir processing. <b>2015</b> , 332-333, 962-970	22
785	Joining of dissimilar materials. <b>2015</b> , 64, 679-699	301
784	Effect of rotation rate on microstructure and texture evolution during friction stir welding of Ti-Al-V plates. <b>2015</b> , 106, 352-358	52
783	Microstructure and mechanical properties of dissimilar friction stir welding of 6061-to-7050 aluminum alloys. <b>2015</b> , 83, 60-65	125
782	Effects of nanometric inclusions on the microstructural characteristics and strengthening of a friction-stir processed aluminum-magnesium alloy. <b>2015</b> , 642, 215-229	46

781	Dissimilar joining of aluminum alloy and stainless steel thin sheets by thermally assisted plastic deformation. <b>2015</b> , 225, 393-404	21
780	Microstructure, mechanical properties and formability of friction stir processed interstitial-free steel. <b>2015</b> , 642, 57-64	23
779	Microstructure and anisotropic mechanical behavior of friction stir welded AA2024 alloy sheets. <b>2015</b> , 107, 112-118	21
778	Microstructure and mechanical properties of friction spot welding aluminiumâ€thium 2A97 alloy. <b>2015</b> , 83, 719-727	32
777	Effects of initial oxide on microstructural and mechanical properties of friction stir welded AA2219 alloy. <b>2015</b> , 86, 49-54	31
776	Taguchi optimization of process parameters in friction stir processing of pure Mg. <b>2015</b> , 3, 168-172	29
775	Corrosion susceptibility of dissimilar friction stir welds of AA5083 and AA6082 alloys. <b>2015</b> , 107, 85-97	47
774	In-situ aluminum matrix composite produced by friction stir processing using FE particles. <b>2015</b> , 641, 380-390	44
773	The Grain Structure and Phase Transformations of TWIP Steel During Friction Stir Processing. <b>2015</b> , 24, 2826-2835	29
772	Investigations on tunneling and kissing bond defects in FSW joints for dissimilar aluminum alloys. <b>2015</b> , 648, 360-367	100
771	Flow patterns in friction stir welds of AA5083 and AA6082 alloys. <b>2015</b> , 83, 203-213	45
770	Fabrication and wear characterization of an A413/Ni surface metal matrix composite fabricated via friction stir processing. <b>2015</b> , 85, 471-482	26
769	Effects of Sc and Zr on mechanical property and microstructure of tungsten inert gas and friction stir welded aerospace high strength Alâ€Znâ€Mg alloys. <b>2015</b> , 639, 500-513	45
768	Influence of Test Temperature on the Tensile Properties along the Thickness in a Friction Stir Welded Aluminum Alloy. <b>2015</b> , 31, 953-961	23
767	Fatigue crack initiation behaviors throughout friction stir welded joints in AA7075-T6 in ultrasonic fatigue. <b>2015</b> , 81, 171-178	22
766	A review of friction stir welding of aluminium matrix composites. <b>2015</b> , 86, 61-71	193
765	Microstructure and mechanical properties of friction stir welded AA7075â€651 aluminum alloy thick plates. <b>2015</b> , 25, 1770-1778	48
764	Shear coefficient determination in linear friction welding of aluminum alloys. <b>2015</b> , 82, 238-246	31

763	Effect of tool rotation rate on constituent particles in a friction stir processed 2024Al alloy. <b>2015</b> , 160, 64-67	19
762	Effect of equal-channel angular pressing on room temperature superplasticity of quasi-single phase Zn-0.3Al alloy. <b>2015</b> , 644, 17-24	31
761	Monitoring of Weld Quality in Friction Stir Welding Based on Spindle Speed and Motor Current Signals. <b>2015</b> , 233-253	
760	The microstructural evolution of friction stir welded AA6082-T6 aluminum alloy during cyclic deformation. <b>2015</b> , 642, 366-376	20
759	RETRACTED ARTICLE: Finite element simulation of material flow in friction stir process of nylon 6 and nylon 6/MWCNTs composite This article has been retracted. Please see Retraction Statement ( <a href="http://dx.doi.org/10.1080/23311916.2015.1106100">http://dx.doi.org/10.1080/23311916.2015.1106100</a> ) View all notes. <b>2015</b> , 2, 1-24	75
758	A Study on Mechanical Properties of Friction Stir Welded and Electron Beam Welded AA2195 Sheets. <b>2015</b> , 1105, 178-181	
757	Friction stir spot welding of low-carbon steel using an assembly-embedded rod tool. <b>2015</b> , 224, 149-155	16
756	Enhancing mechanical properties of friction stir welded 2219Al-T6 joints at high welding speed through water cooling and post-welding artificial ageing. <b>2015</b> , 106, 255-265	45
755	Parameters optimization in FSW of polypropylene based on RSM. <b>2015</b> , 11, 32-42	5
754	Effect of Post-Welded Heat Treatments on Microstructure and Mechanical Properties of Friction Stir Welded Joints of 7A04-O Aluminum Alloy. <b>2015</b> , 817, 212-218	
753	Surface composites by friction stir processing: A review. <b>2015</b> , 224, 117-134	323
752	Mechanics in frictional penetration with a blind rivet. <b>2015</b> , 222, 268-279	18
751	Surface Modification of Cast Al-17%Si Alloys Using Friction Stir Processing. <b>2015</b> , 100, 1522-1531	32
750	Process operational windows and industrialization scenarios for assembly of large aluminium structures by robotic friction stir welding. <b>2015</b> , 1-12	
749	Behaviour of AlMg3 Base Material and its Friction Stir Welded Joints under Cyclic Loading Conditions. <b>2015</b> , 812, 155-160	
748	Influence of rotational speed on the formation of friction stir processed zone in pure copper at low-heat input conditions. <b>2015</b> , 18, 124-130	21
747	Influence of tool design and process parameters on dissimilar friction stir welding of copper to AA6061-T651 joints. <b>2015</b> , 80, 2073-2082	70
746	Effect of tool pin profile on microstructure and tensile properties of friction stir welded dissimilar AA 6061-5086 aluminium alloy joints. <b>2015</b> , 11, 174-184	111

745	Modeling the effects of ultrasonic vibration on friction stir welding. <b>2015</b> , 222, 91-102	81
744	A novel Bi-processing technique for metal matrix nanocomposites. <b>2015</b> , 78, 907-915	5
743	Effect of friction stir spot weld parameters on Cu/CuZn30 bimetal joints. <b>2015</b> , 80, 161-170	8
742	Parametric study of transient temperature distribution in FSW of 304L stainless steel. <b>2015</b> , 80, 1223-1239	9
741	Characterization of Newly Developed Semisolid Stir Joining Method for Cast Cu Base Alloy (Cu-Al-Si-Fe) and Effect of Stirrer Type on Uniformity of Microstructure. <b>2015</b> , 46, 762-770	2
740	Friction Stir Welding of Al-Cu Bilayer Sheet by Tapered Threaded Pin: Microstructure, Material Flow, and Fracture Behavior. <b>2015</b> , 46, 2544-2553	16
739	Experimental Investigations on Formability of Aluminum Tailor Friction Stir Welded Blanks in Deep Drawing Process. <b>2015</b> , 24, 1038-1049	30
738	Development of Surface Nanocomposite Based on Al-Ni-O Ternary System on Al6061 Alloy by Friction-Stir Processing and Evaluation of Its Properties. <b>2015</b> , 67, 998-1006	18
737	Analysis of heat transfer and material flow in reverse dual-rotation friction stir welding. <b>2015</b> , 59, 629-638	15
736	Biocompatible coatings for metallic biomaterials. <b>2015</b> , 287-343	4
735	Interfacial microstructure and properties of copper clad steel produced using friction stir welding versus gas metal arc welding. <b>2015</b> , 104, 1-9	35
734	Development of Cu particles and Cu core-shell particles reinforced Al composite. <b>2015</b> , 31, 494-500	18
733	Effect of the Zener-Hollomon parameter on the microstructure evolution of dual phase TWIP steel subjected to friction stir processing. <b>2015</b> , 638, 15-19	48
732	Investigation on the effects of SiC particle addition in the weld zone during friction stir welding of Al 6351 alloy. <b>2015</b> , 80, 1919-1926	23
731	General regularities of the microstructure formation during friction stir welding and sliding friction. <b>2015</b> , 36, 127-131	17
730	Fatigue Damage Evaluation of Friction Stir Spot Welded Cross-Tension Joints Under Repeated Two-Step Force Amplitudes. <b>2015</b> , 24, 2494-2502	9
729	Physics-based interpretation of tool-workpiece interface temperature signals for detection of defect formation during friction stir welding. <b>2015</b> , 5, 7-11	6
728	Effect of backing plate material in friction stir butt and lap welding of 6063-T4 aluminium alloy. <b>2015</b> , 77, 2181-2195	18

727	The contribution of grain boundary sliding in tensile deformation of an ultrafine-grained aluminum alloy having high strength and high ductility. <b>2015</b> , 50, 3549-3561	31
726	Fabrication of Al5083/B4C surface composite by friction stir processing and its tribological characterization. <b>2015</b> , 4, 398-410	161
725	Introduction. <b>2015</b> , 1-13	4
724	Improved resistance to hydrogen embrittlement of friction stir welded high carbon steel plates. <b>2015</b> , 40, 8219-8229	8
723	Microstructure and pitting corrosion resistance of AA2219 Al-Cu alloy friction stir welds -Effect of tool profile. <b>2015</b> , 11, 123-131	31
722	Improved weld macrosection, microstructure and mechanical properties of 2024Al-T4 butt joints in ultrasonic vibration enhanced friction stir welding. <b>2015</b> , 20, 345-352	73
721	Effect of tool axis offset and geometry of tool pin profile on the characteristics of friction stir welded dissimilar joints of aluminum alloy AA5052 and HSLA steel. <b>2015</b> , 639, 219-233	72
720	Investigation for Microstructure and Hardness of Welded Zone of Cu-Ni Alloy using W92-Ni-Fe Sintering Tool. <b>2015</b> , 22, 181-186	
719	Influences of pin profile on the macrostructure and mechanical properties of friction stir welded AA6061-T6 alloy T-joints. <b>2015</b> , 57, 992-996	1
718	Effect of Process Parameters on the Strength of Swept Friction Stir Spot Welded Plates. <b>2016</b> , 105-110	0
717	Guideline for Development of Innovative Processing -FSW-. <b>2016</b> , 85, 599-608	
716	Microstructure Evolution and Mechanical Properties Investigation of Friction Stir Welded AlMg5-Al <sub>2</sub> O <sub>3</sub> Nanocomposites. <b>2016</b> , 729-736	
715	Effect of Nano-Particle Addition on Grain Structure Evolution of Friction Stir Processed Al 6061 During Post-Weld Annealing. <b>2016</b> , 77-84	
714	Peculiarities of structure of Cu-Cu, Ni-Cu and Steel-Cu joints produced by overlap friction stir welding method. <b>2016</b> , 2016, 82-87	
713	Process Control of Friction Stir Welding and Four-dimensional X-ray Visualization. <b>2017</b> , 6, 12-16	
712	Study on Microstructure and Properties of Friction Stir Welding Aluminum-Lithium Alloy in Lapped Joints. <b>2017</b> , 05, 189-193	
711	Flow Features in Shoulder Zone During Scroll Tool Friction Stir Welding Thick 6061 Aluminum Plates. <b>2017</b> , 137-143	
710	High-temperature microstructural evolution and room-temperature mechanical properties of friction-stir-processed 5083 aluminum alloy. <b>2017</b> , 67, 361-366	

- 709 Influence of Process Parameters on Microstructure of Friction Stir Processed Mg AZ31 Alloy. **2017**, 1293-1305 1
- 708 Influence of welding conditions on crack opening displacements in welded CT specimens. **2017**, 59, 635-641
- 707 Friction Stir Processing and Surfacing. **2017**, 696-705
- 706 CIRP Encyclopedia of Production Engineering. **2018**, 1-6
- 705 Application of Friction Stir Processing to Weld Toe for Fatigue Strength Improvement of High-Strength Low-Alloy Steel Joint. **2018**, 36, 1WL-4WL 3
- 704 Improvement of Mechanical Properties and Morphological Studies of Friction Stir Processed Composites. **2018**, 152-179
- 703 Multi-Performance Optimization in Friction Stir Welding of Aluminum Alloy Using Response Surface Methodology. **2018**, 240-263
- 702 Application of Computational Fluid Dynamics in Friction Stir Welding. **2018**, 06, 134-142
- 701 Influence of Tool Rotational Speed on the Formation of Friction Stir Processing Zone in Cast Zk60/SiCp Magnesium Alloy Surface Composites. **2018**, 7, 20180056 3
- 700 Effects of Friction Stir Processing on the Microstructure and Mechanical Properties of Al-Mg-Sc Alloy. **2018**, 55, 370-386
- 699 SERTİME KARIŞIRMA KAYNAĞI BİRLEŞTİRİLMİŞ BAĞANTILARDA PM AKI MASININ MEKANİK ÖZELLİKLER ÜZERİNE ETKESİ
- 698 Thermo-mechanical testing of TiO<sub>2</sub> functional coatings using friction stir processing. **2018**, 60, 818-824 1
- 697 Estudo dos Parâmetros do Processo de Soldagem a Ponto por Fricção de Chapa Fina da Liga de Alumínio AA2198-T8. **2018**, 23, 393-401
- 696 A Comparative Study on Formability of a Different Thickness FSWed AA 5052 Blank by Conventional and EM Forming. **2019**, 47, 20170463
- 695 Influence of Workpiece Tilting Angle on Joint Properties in Tailor Friction Stir Welded Blanks of Aluminium Alloy 5052-H32. **2018**, 36, 39-44 1
- 694 Friction Stir Welding of Aluminum Alloys. **2018**, 748-762 0
- 693 A Comparative Study on Mechanical and Dry Sliding Wear Behaviour of Al 7075-T6 Welded Joints Fabricated by FSW, TIG and MIG. **2019**, 499-506
- 692 Effect of multi-pass friction stir processing on the microstructure and mechanical properties of dual phase steel. **2018**, 2018, 158-163 0

- 691 Effect of plate thickness on weld speed in friction stir welding of AA6061-T6 Al-alloy plates. **2018**, 2018, 86-92
- 690 Tensile Strength, Micro-hardness and Microstructure of Friction-Stir-Welding AA6061-T4 Joints. **2018**, 25, 50-55 1
- 689 Fabrication of surface nano composites of Al/B4C at selected regions by Friction stir processing. **2019**, 4, 7-15
- 688 Evaluation of Abrasive Wear in UNS S32101 and S32750 Duplex Stainless Steels Submitted to Friction Stir Processing. **2019**, 22, 1
- 687 Research Progress on Graphene Reinforced Aluminum-Based Composites. **2019**, 09, 803-812
- 686 Experimental Investigation of Friction Coefficient of Magnesium Alloy Developed Through Friction Stir Processing with PKS Ash Powder Particles. **2019**, 95-99 0
- 685 Kinematics Analysis of a novel Deployable Inner Support Fixture for Fuel Tankâ Circumferential Girth Welding Process. **2019**, 489-499
- 684 Motion-Induced Eddy Current Testing. **2019**, 781-825 1
- 683 Review Paper: Production and Microstructural Phenomena Affecting Friction Stir Welding Mechanical Behaviour and Applications..
- 682 Three-dimensional Visualization of Material Flow During Friction Stir Welding by X-ray Radiography. **2019**, 88, 170-173 1
- 681 CIRP Encyclopedia of Production Engineering. **2019**, 1815-1820
- 680 MECHANICAL & MICROSTRUCTURE ASPECTS OF FRICTION STIR WELDED ALUMINUM ALLOY AA2014 BUTT JOINTS. **2019**, 14, 27
- 679 Developing and Deploying FSW&P Through Standardization. **2019**, 123-133
- 678 Effects of Microstructural Modification by Friction Stir Processing on Fracture Toughness of Low-carbon Steel Welds. **2019**, 8, 29-35 1
- 677 Fatigue and Static Properties of Built-up Friction Stir Welded Ti-6Al-4V I-Beams. **2019**, 8, 20170136 3
- 676 Transformation Behavior of Austenite in Friction Stir Weld and Effects for Strength and Ductility. **2019**, 88, 116-119
- 675 Smoothed Particle Hydrodynamics for Ductile Solid Continua. **2019**, 1415-1463
- 674 Strength and hardness of post-weld heat-treated thick section 7075 Al alloy friction stir welds. **2019**, 61, 411-416 3

- 673 Friction and Wear of Aluminum Alloys and Composites. **2019**, 130-151
- 672 Biaxial deformation behavior of friction stir processed TRIP steel sheets. **2019**, 3, 56-61
- 671 Friction Stir Dissimilar Butt Welding of Mild Steel and Aluminum 5052-O Alloy. **2019**, 36, 675-680 1
- 670 Influence of tool shape for friction stir welding on physicommechanical properties of zones of welds of aluminium alloy EN AW 6082-T6. **2019**, 2019, 7-11 0
- 669 Development and Influence of Setting Process Variables in Single Point Incremental Sheet Metal Forming of AA 8011 Using Complex Proportional Assessment and ANOVA.
- 668 Modification of Aluminium Alloy Surface Composite Reinforced with ZrO<sub>2</sub> Particles Fabricated Through Friction Stir Processing. **2020**, 579-586
- 667 Microhardness of TiNi alloy after friction stir processing. **2020**,
- 666 Mechanical behavior associated with metallurgical aspects of friction stir welded Al<sub>70</sub>Ni alloy exposed to exfoliation corrosion test. **2020**, 7, 066502 0
- 665 Local binary pattern for the evaluation of surface quality of dissimilar Friction Stir Welded Ultrafine Grained 1050 and 6061-T6 Aluminium Alloys. **2020**, 9, 69-77 0
- 664 INVESTIGATION OF MICROSTRUCTURE AND HARDNESS PROPERTIES OF AGED AA 7075 MATRIX B<sub>4</sub>C / SiC REINFORCED COMPOSITE-HYBRID MATERIALS. 2
- 663 Experimental Analysis of FSW Process Forces. **2020**, 44, 51-56
- 662 Surface Hardening of Aluminium Alloy with Addition of Zinc Particles by Friction Stir Processing. **2020**, 10, 408-414
- 661 Friction stir welding of ultra high-purity aluminium thin sheets never to lower high conductivity at ultra-low temperature. **2020**, 34, 125-137 0
- 660 Meta-heuristic optimization of copper friction stir weldments. **2020**, 12, 163-171 1
- 659 Effect of Friction Stir Processing on the Sliding Wear Characteristics of AZ91 Mg Alloy. **2021**, 663-669 1
- 658 Multi objective optimization of process parameters of AA2014 Friction Stir Weldments using Genetic Algorithm. **2020**, 12, 183-193 1
- 657 An Analysis on the Advanced Research in Additive Manufacturing. **2021**, 229-277 1
- 656 Advanced manufacturing of titanium propellant tanks for space applications part 1: tank design and demonstrator manufacturing. 1



655	A review on friction stir welding of thermoplastic materials: recent advances and progress. 1	1
654	Microstructure evolution during friction stir welding of 1Cr11Ni2W2MoV martensitic stainless steel at different tool rotation rates. <b>2021</b> , 111561	0
653	The effect of prior adhesive bonding on the corrosion behavior of AA2024 FSWed single lap joints. <b>2021</b> , 104122	0
652	Optimization of friction stir process parameters for fabrication of AA7075/TiO <sub>2</sub> based surface composites.	1
651	Effect of multi-pass friction stir processing and SiC nanoparticles on microstructure and mechanical properties of AA6082-T6. <b>2021</b> , 3, 100062	11
650	Subminiature Eddy Current Transducer for Inspection of Welded Joints Obtained by Friction Stir Welding. <b>2022</b> , 529-541	
649	Meshfree simulation and experimental validation of extreme thermomechanical conditions in friction stir extrusion. 1	1
648	Enhanced cytocompatibility and mechanical properties of electron beam melted Ti-6Al-4V by friction stir processing. <b>2021</b> , 72, 400-410	2
647	Friction Stir Processing Technology: A Case Study. <b>2020</b> , 115-130	
646	Effect of Nanoparticles Addition on Microstructural and Mechanical Properties of Friction Stir Welded 2014 Aluminium Alloy. <b>2020</b> , 1127-1136	
645	Fabrication and Characterization of Functionally Graded Composites Using Friction Stir Processing. <b>2020</b> , 1103-1111	
644	Three-Dimensional FE Model and Temperature Evaluation on AA 2014 Friction Stir Weldments with Steel and Cu-Backing Plates. <b>2020</b> , 505-513	
643	Effect of tool rotational speed on microstructure and mechanical properties of friction stir welded AA6061-T6 alloy using brass interlayer. <b>2020</b> , 33, 5486-5491	2
642	Study of Friction Stir Welding on Aerospace Grade ZE41AMg Alloy and Its Comparison with Laser Beam Welding on ZE41AMg Alloy. <b>2021</b> , 249-262	0
641	Stüme Karşıma Kaynak Tekniđile Birleđirilen Pirinđ (CuZn63) Levhaların Mekanik Özelliklerinin İncelenmesi.	
640	Prediction of wear resistance model for magnesium metal composite by response surface methodology using central composite design. <b>2021</b> , 18, 316-327	1
639	Discrete Wavelet Transformation Approach for Surface Defects Detection in Friction Stir Welded Joints. <b>2020</b> ,	
638	Effects of bottom plate in friction stir welding of AA6061-T6. <b>2021</b> , 118, 108	0

637	Friction Stir Welding of a TRIP Fe49Mn30Cr10Co10C1 High Entropy Alloy. <b>2021</b> , 11, 66	2
636	Effect of Friction Stir Welding Process Parameters on Tensile Strength and Forming Height of Tailor Welded Blanks. <b>2021</b> , 123-134	1
635	Influence of probe length on the formation of an interface in friction stir welded T-lap joints. <b>2021</b> , 36, 693-701	2
634	Experimental Analysis and Optimization to Maximize Ultimate Tensile Strength and Ultimate Elongation of Friction Stir Welded AA6082 Aluminum Alloy. <b>2021</b> , 11, 69	0
633	Fabrication of Tailor-Made Metallic Structures for Lightweight Applications and Mechanical Behaviour. <b>2022</b> , 216-261	0
632	Maximization of Tensile Strength of Aluminum 6061 Alloy T6 Grade Friction Welded Joints by Using the Desirability Function. <b>2022</b> , 195-205	
631	Finite Element Analysis of the Heat Generated During FSP of 1100 Al Alloy. <b>2020</b> , 425-431	1
630	The influence of samples production parameters on the structure and mechanical properties of wrought aluminum alloys of the Al-Cu-Mg system. <b>2020</b> ,	
629	Friction Stir Processing of AA6063-T6 Tubes and End Forming Characterization at Varying Tool Pin Profiles. <b>2020</b> , 9, 20190248	3
628	Influence of Tool Probe Offset and Traverse Speed on Microstructure and Mechanical Properties of Friction Stir Weld Dissimilar Joints of AA2024-T351 and AA7075-T651. <b>2020</b> , 555-567	
627	Comparative Analysis of Friction Stir Welded Joints using Water run and Air stream cooling for Superior Strength. <b>2020</b> , 22, 1517-1523	
626	Microstructural Evolution and Mechanical Properties of Aluminum Alloy 7075-T651 Processed by Friction Stir Processing. <b>2020</b> , 171-183	
625	Effects of process parameters on tensile strength of friction stir welded Al-Cu double-layer sheets. <b>2020</b> , 21, 503	1
624	Improving GMAW weld metal and HAZ properties through friction stir processing. <b>2020</b> , 65, 137-142	
623	Specifics of structural-phase and stress States in TiNi alloy formed by friction stir processing. <b>2020</b> ,	
622	On the possibility of applying severe plastic deformation by high pressure torsion for the manufacture of Al-Nb metal matrix composites. <b>2020</b> , 10, 475-480	1
621	The influence of welding speed on mechanical properties of friction stir welded joints of AA2024 T351 aluminum alloy. <b>2020</b> , 70, 53-57	
620	The Effects of Pin Offset for FSW of Dissimilar Materials: A Study for AA 7075 & AA 6013. <b>2020</b> , 25,	0

619	A comprehensive review of recent progress in fabrication of magnesium base composites by friction stir processing techniqueâ review. <b>2020</b> , 7, 684-704	2
618	PROCESSING OF GRADE A LOW CARBON STEEL BY EQUAL CHANNEL ANGULAR PRESSING.	
617	Assessing the Effect of Altering Secondary Phase in Friction Stir Processed AZ91 Mg Alloy by Solution Heat Treatment.	
616	Future Research Direction in Friction Welding, Friction Stir Welding and Friction Stir Processing. <b>2020</b> , 131-142	
615	Supervised Machine Learning in Friction Stir Welding (FSW). <b>2020</b> , 119-185	1
614	Surface Quality Analysis of Friction Stir Welded Joints by Using Fourier Transformation and Local Binary Patterns Algorithms. 25,	
613	The influence of the rolling direction of aluminum alloy AA2024 sheets on mechanical properties of welded joints produced at different friction stir welding modes. <b>2020</b> ,	
612	Friction stir welding of ultrahigh-purity aluminum thin sheets never to lower high conductivity at ultra-low temperature. <b>2020</b> , 38, 253-262	
611	Parameters governing in-service corrosion resistance. <b>2020</b> , 323-355	
610	Influence of the Microstructural and Mechanical Properties of Reinforced Graphene in Magnesium Matrix Fabricated by Friction Stir Processing. <b>2020</b> , 235-247	
609	Suppression of root flaw in friction stir welded 6061-T6 aluminum alloy using double spiral tool. <b>2020</b> , 38, 351-354	2
608	Cambio tecnolgico en la industria naval utilizando el proceso de soldadura de punto por Friccin-Agitacin. <b>2020</b> , 19, 61-68	
607	Characterization of AZ31-NbC surface composite fabricated by friction stir processing. <b>2020</b> , 64, 29-37	
606	Statistical Modeling and Optimization of Two-Layer AluminumâCopper Pipe Fabrication by Friction Stir Welding. 1	0
605	Enhancements in the Bonding Properties of a Friction Stir Lap-Welded Interstitial Free Steel and Al Alloy by Introducing a Ni Interlayer. <b>2021</b> , 11, 1782	0
604	Effect of the Gap Width in AZ31 Magnesium Alloy Joints Obtained by Friction Stir Welding. <b>2021</b> ,	5
603	Microstructural and Mechanical Characterization of Additive Friction Stir-Deposition of Aluminum Alloy 5083 Effect of Lubrication on Material Anisotropy. <b>2021</b> , 14,	0
602	MULTI OBJECTIVE OPTIMIZATION OF FSW PROCESS PARAMETERS USING GENETIC ALGORITHM AND TLBO ALGORITHM. <b>2020</b> , 15,	

601	EFFECT OF SIC AND TIB2 PARTICLES ON MICROSTRUCTURE AND MECHANICAL PROPERTIES OF COPPER SURFACE COMPOSITES FABRICATED BY FRICTION STIR PROCESSING. <b>2020</b> , 15,	
600	A Study on the Tribological Behavior of Al/B4C/Graphite Hybrid Composite Fabricated by Friction Stir Processing. <b>2021</b> , 225-231	
599	Application of Artificial Neural Network to Friction Stir Welding Process of AA7050 Aluminum Alloy. <b>2021</b> , 407-414	0
598	Impact of Process Parameters on Peak Temperature Inside the Workpiece During Friction Stir Welding of AA5083 Aluminum Alloys. <b>2021</b> , 109-119	
597	Influence of Process Variables on the Ultimate Tensile Strength of Friction Stir Welded AA6061 Matrix Composite. <b>2021</b> , 55-63	
596	The influence of multi-pass friction stir processing on microstructure and sliding wear behavior of Cu/ZrO <sub>2</sub> surface composite. <b>2020</b> , 111, 814-825	
595	Aluminium composites prepared by laser cladding assisted by friction stir processing. <b>2020</b> , 7, 116521	
594	Local Electrochemical Behavior of Friction Stir Welded Mg-Al-Mn Alloy Joints. <b>2021</b> , 77, 183-191	1
593	Inhomogeneous microstructure and properties along the thickness of stir zone in friction stir welded SAF 2507 super duplex stainless steel joint. <b>2022</b> , 73, 611-623	2
592	Suppression of abnormal grain growth in friction-stir welded aluminum by pre-strain rolling: Limitation of the approach. <b>2022</b> , 832, 142388	0
591	Mechanical properties and tribological performance of A356/Cr <sub>3</sub> C <sub>2</sub> -NiCr surface composite developed by high-velocity oxy-fuel and post friction stir processing treatment. <b>2022</b> , 28, 101627	1
590	Studies on Polymer Composites for Producing Hybrid Material Sheets Processed by Friction Stir Welding. <b>2022</b> , 227-235	
589	Application of Electron Beam Welding Technique for Joining Ultrafine-Grained Aluminum Plates. <b>2022</b> , 53, 18	2
588	Mechanical and Formability Evaluation of ST14 Alloys Welded by Friction Stir Welding. <b>2021</b> , 2021, 1-12	
587	Tensile behaviour and microstructure evolution in friction stir welded 2195â219 dissimilar aluminium alloy joints. <b>2022</b> , 66, 227	
586	Recent development in friction stir processing of aluminum alloys: Microstructure evolution, mechanical properties, wear and corrosion behaviors. 095440892110580	3
585	A novel approach to measure three-dimensional surface topography for stationary shoulder friction stir processing. <b>2021</b> , 15, 5608-5614	0
584	Effects of Heat Dissipation from Friction Stir Welding to Microstructures of Semi-Solid Cast 6063 Al Alloy. 904, 70-75	

583	Friction Stir Welding of Thick Plates of 4Y3Gd Mg Alloy: An Investigation of Microstructure and Mechanical Properties. <b>2021</b> , 14,	1
582	Characterisation of Microstructure and Mechanical Properties of Linear Friction Welded ̢ Titanium Alloy to Nitinol. <b>2021</b> , 11, 10680	0
581	Study of optimum welding performance in friction stir welding of dissimilar Mg alloys using integrated RSM-TLBO algorithm. 095440892110581	1
580	Influence of hybrid pin profile on microstructural and mechanical properties of Al/SiC graded composites produced by friction stir processing. <b>2021</b> , 2070, 012187	0
579	A Review of Structural Adhesive Joints in Hybrid Joining Processes. <b>2021</b> , 13,	5
578	Process parameter optimization for ultimate tensile strength of friction stir welded joint of Al-10Mg-8Ce-3.5Si aluminium alloy plates using Taguchi technique. <b>2021</b> ,	0
577	Local changes in the microstructure, mechanical and electrochemical properties of friction stir welded joints from aluminium of varying grain size. <b>2021</b> , 15, 5968-5987	
576	Investigating the effects of tool offset distance and SiC particles on microstructural and mechanical properties of AA6082/SiC composites via friction stir processing. <b>2021</b> ,	0
575	Friction Stir Welding/Processing of Mg-Based Alloys: A Critical Review on Advancements and Challenges. <b>2021</b> , 14,	2
574	Effects of tool wear on the microstructure evolution and mechanical properties of friction stir welded TA5 alloy. 1	0
573	Strength-ductility synergic enhancement in friction stir welded AA2024 alloy and copper joints: unravelling the role of Zn interlayer's thickness. <b>2021</b> , 16, 251-251	4
572	Microstructural and Mechanical Properties of Friction Stir Welding of AZ91D. <b>2021</b> , 64-71	
571	Future Research Directions and Applications for High-Entropy Materials. <b>2021</b> , 721-763	
570	Excellent High-Strain-Rate Superplasticity of Fine-Grained ZK60 Magnesium Alloy Produced by Submerged Friction Stir Processing. 2101268	1
569	Microstructure characterization and evaluation of mechanical properties in 2A97 aluminum-lithium alloys welded by stationary shoulder friction stir welding. <b>2022</b> , 16, 416-432	2
568	Understanding Radiation Effects in Friction Stir Welded MA956 using Ion Irradiation and a Rate Theory Model. <b>2022</b> , 561, 153530	2
567	Formation and dissociation of shear-induced high-energy dislocations: insight from molecular dynamics simulations. <b>2022</b> , 30, 025012	0
566	Microstructural, mechanical and wear behavior of A7075 surface composite reinforced with WC nanoparticle through friction stir processing. <b>2022</b> , 276, 115476	0

565	Effects of tool pin thread on temperature field and material mixing in friction stir welding of dissimilar Al/Mg alloys. <b>2022</b> , 74, 112-122	2
564	Tribological and mechanical properties of surface nanocomposite AlCoCrFeNi <sub>2.1</sub> high-entropy alloy produced by FSP. <b>2022</b> , 896, 163052	1
563	Microstructure Evolution and Mechanical Property of the Retractable Pin Tool Friction Stir Welding (RPT-FSW) Joints of A356 Aluminum Alloy Wheels.	
562	Study the effect of welding pass number on the mechanical and metallurgical properties of Aluminum type Al 1050 H14 produced by friction stir welding. <b>2021</b> , 28, 1-13	
561	An Analytical Method for Predicting Temperature Rise Due to Multi-body Thermal Interaction in Deformation Processing. <b>2022</b> , 74, 513-525	2
560	Microhardness and microstructure of AA7075-T651/graphene surface composite through FSP. <b>2022</b> , ,	0
559	A Review on Improving the Surface Characteristics of Aluminum Alloy via Friction Stir Processing. <b>2022</b> , 427-436	0
558	An Exhaustive Evaluation of Fracture Toughness, Microstructure, and Mechanical Characteristics of Friction Stir Welded Al6061 Alloy and Parameter Model Fitting Using Response Surface Methodology. 1	1
557	Self-Reacting Friction Stir Welding of Al <sub>3</sub> ZnMg Aluminum Alloy. 1	1
556	Joining techniques for polymer matrix composites. <b>2022</b> , 11-32	0
555	A novel approach to dissimilar joining of AA7075 to AZ31B by friction stir soldering using Sn intermediate layer. 1-14	0
554	Determination of the friction stir welding window from the solid-state-bonding mechanics under severe thermomechanical conditions. <b>2022</b> , 21, 101350	0
553	Investigations on the material flow and the influence of the resulting texture on the tensile properties of dissimilar friction stir welded ZK60/Mg <sub>2</sub> Al <sub>3</sub> Zn joints. <b>2022</b> , 17, 1716-1730	0
552	Microstructure and Mechanical Properties of Friction Stir Processed AISI 316 Stainless Steel: Evaluation of the Effect of Cooling Media and Multi-Step Processing on Microstructure and Mechanical Properties of Friction Stir Processed AISI 316 Stainless Steel. <b>2022</b> , 11, 72	0
551	Friction stir welding of nano/ultrafine-grained AA2024 alloy produced through an accumulative roll bonding process. <b>2022</b> , 12, 51	0
550	Fatigue strength improvement due to alloying steel weld toes with WC tool constituent elements through friction stir processing. <b>2022</b> , 119, 6203	
549	Friction stir-based additive manufacturing. 1-25	4
548	Influence of Fly Ash and Emery based particulate reinforced AA7075 surface composite processed through friction stir processing. 095440892110727	2

547	Process Relationship in High-Stress Friction Coupled with Complex Shaped Counterbody and Friction Stir Welding Al-Mg-Sc-Zr Alloy. 1049, 39-44	
546	Investigation of the influence of bimetallic micro SiC particles reinforced in FSW of Al6061-Al7075 composite. <b>2022</b> ,	
545	Friction-based welding of metal to polymer. <b>2022</b> , 349-444	0
544	Study on process characteristics of friction stir welding based on vortex material flow using 6061-T6 aluminum alloy. <b>2022</b> , 119, 5025	0
543	Friction stir butt-welding of roll clad aluminum thin sheets: effect of microstructural and texture changes on mechanical properties. <b>2022</b> , 832, 142490	2
542	Structure and Mechanical Properties of Double Side Friction Stir Welded Aluminium AA6061 with the Addition of Cu Powder. 1051, 111-118	0
541	A comparative analysis of friction stir and tungsten inert gas dissimilar AA5082-AA7075 butt welds. <b>2022</b> , 5, 74-80	0
540	Current status and development of external energy-assisted friction stir welding processes: a review. <b>2022</b> , 66, 577	2
539	Application of Friction Stir Welding (FSW) in Automotive and Electric Vehicle. <b>2022</b> , 289-304	0
538	Effect of copper donor material-assisted friction stir welding of AA6061-T6 alloy on downward force, microstructure, and mechanical properties. <b>2022</b> , 119, 2847	1
537	Dynamic Recrystallization and Dynamic Precipitation in AA6061 Aluminum Alloy During Friction Stir Welding. 1	1
536	Friction stir welding of dissimilar alloy combinationsâA Review. 095440622110692	2
535	A contemporary investigation of metal additive manufacturing techniques. <b>2022</b> , 47, 1	1
534	The role of thermal contribution in the design of AA2024 friction stir welded butt and lap joints: mechanical properties and energy demand. 1	2
533	Fabrication of surface composites on different aluminium alloys via friction stir process - A review report. 1-24	1
532	Role of geometrically necessary dislocations on mechanical properties of friction stir welded single-phase copper with medium stacking fault energy. <b>2022</b> , 16, 194-200	0
531	Effects of process parameters on microstructure and mechanical properties of Al0.5CoCrFeNi high entropy alloy thin sheets using pinless friction stir welding. <b>2022</b> , 16, 1069-1089	0
530	Fabrication of surface metal matrix composites for structural applications using friction stir processing âA review. <b>2022</b> ,	2

- 529 Joining of aluminium matrix composites using friction stir welding: A review. 146442072110696
- 528 Investigations on the process window for friction stir assisted double-sided incremental forming with synchronous bonding of steel and aluminum alloy sheets. **2022**, 15, 1 0
- 527 Advances in FSW and FSSW of dissimilar Al-alloy plates. 1-33 17
- 526 Role of ultrasonic in synergistic strengthening of friction stir welded alloys by grain refinement and rapid nanoscale precipitation. **2022**, 838, 142751 0
- 525 Microstructural and Mechanical Properties of Aluminum Matrix Composite Reinforced with Cu-Zn-Al Particles Fabricated by Friction Stir Processing. 1 0
- 524 Effect of external cooling on fatigue crack growth behaviour of friction stir processed AA6061 alloy. **2022**, 261, 108236 0
- 523 Welding behavior of an ultrahigh-strength quenching and partitioning steel by fusion and solid-state welding methods. **2022**, 17, 1289-1301 0
- 522 Deformation behavior of friction-stir welded Al-Mg-Mn alloy with ultrafine-grained structure. **2022**, 185, 111758 2
- 521 Indentation investigation of 304L stainless steel friction stir weld simulated crack repair. **2022**, 836, 142691 0
- 520 Friction stir processing of thick tempered martensitic steels: Correlation between microstructure and mechanical properties. **2022**, 836, 142698 2
- 519 Evaluation and Origin of Residual Stress in Hybrid Metal and Extrusion Bonding and Comparison with Friction Stir Welding. **2022**, 218, 107089 2
- 518 The occurrence of deformation induced ferrite transition (DIFT) during back heating assisted friction stir welding pipeline steel: The influence on the toughness of welded joint. **2022**, 836, 142697 0
- 517 Effect of loading path on grain misorientation and geometrically necessary dislocation density in polycrystalline aluminum under reciprocating shear. **2022**, 205, 111221 0
- 516 Root cause analysis of premature simulated life cycle failure of friction stir welded aluminum 2219. **2022**, 134, 106059 0
- 515 Investigation of notch effects on load-bearing capacity of AA7075-AA7075 friction-stir welded joints under mixed mode I/II loading. **2022**, 118, 103252 1
- 514 Microstructure and Texture Analysis of Dissimilar Friction Stir Welded AZ31 Mg and Al 6061 Joint. **2022**, 191-196 1
- 513 Dissimilar Metal Micro Friction Stir Welding of AZ31 to 6061. **2022**, 201-206
- 512 Exploring the Microstructure-Property Relationship of Mg-Al-Mn Alloys Enhanced via Friction Stir Processing. **2022**, 197-200



511	Reinforcing material addition techniques in friction stir processing: A review. <b>2022,</b>	
510	Microstructure and Eddy-Current Analysis of Aluminum 01570 Welded Joints Obtained by Friction Stir Welding. 909, 60-69	
509	Experimental investigation on microstructure and mechanical properties of functionally graded AA7075 using friction stir processing. <b>2022,</b>	0
508	Effect of Multipass FSP on Si-rich TIG Welded Joint of Dissimilar Aluminum Alloys AA8011-H14 and AA5083-H321: EBSD and Microstructural Evolutions. 1	3
507	Influence of tool offset on mechanical properties of solid-state-welded steel and AA7XXX joints. <b>2022,</b>	
506	Microstructure evolution and hardness distribution of linear friction welded AA5052-H34 joint and AA5083-O joint. <b>2022,</b> 17, 2419-2419	2
505	Determination of local constitutive behavior of AA6061-T6 friction stir welds using digital image correlation. 146442072210754	
504	Role of enhanced surface grain refinement and hardness improvement induced by the combined effect of friction stir processing and ultrasonic impact treatment on slurry abrasive wear performance of silicon carbide particle reinforced A356 composites. <b>2021,</b> 8, 126513	0
503	Friction Stir Welded AA5052-H32 under Dissimilar Pin Profile and Preheat Temperature: Microstructural Observations and Mechanical Properties. <b>2022,</b> 12, 4	
502	Friction Stir Welding of Heat-Treated Inconel 718 Alloy, and Its Mechanical and Microstructural Analysis. <b>2022,</b> 523-532	
501	Advances in Welding Techniques for Similar and Dissimilar Materials. <b>2022,</b> 183-197	1
500	Review on Friction-Based Additive Manufacturing Processes: Types, Defects, and Applications. <b>2022,</b> 885-903	
499	Recent developments in tensile properties of friction welding of carbon fiber-reinforced composite: A review. <b>2022,</b> 11, 1408-1436	0
498	Microstructural characterization of Friction stir assisted laminated lap welding of AA6063 sheets. <b>2022,</b> 56, 949-953	0
497	Investigation of the Directional Characteristics of the Emitted Airborne Sound by Friction Stir Welding for Online Process Monitoring. <b>2022,</b> 41-56	
496	Friction stir processing as a strengthening technique for medium carbon low alloy steels. <b>2022,</b> 56, 862-867	0
495	Performing a comparative study of mechanical properties of Al-Cu composite reinforced with or without bimetallic SiC micro-particle. <b>2022,</b> 52, 1739-1743	
494	Microstructural and micro-hardness study on the fabricated Al 5083-O/6061-T6/7075-T6 gradient composite component via a novel route of friction stir additive manufacturing. <b>2022,</b> 56, 819-825	1

- 493 Fabrication of Al-Zr -Mg-Ni matrix composite with TiC reinforcement by multi-pass recursive friction stir processing and its characterization. **2022,**
- 492 Effect of Scandium Addition on Mechanical Properties and Microstructural Evolution in Al-Zn-Mg Alloys Processed through the Friction Stir Processing. **2022, 11, 158-167**
- 491 Dissimilar friction stir welding process-a review. 1-23 3
- 490 Influence of Sliding-Friction Induced Strain Hardening on the Tribological Behavior of Friction Stir Processed AA2219 Alloy. **2022, 17, 9-18** 0
- 489 A review of nanoparticle reinforced surface composites processed by friction stir processing. 1-37 4
- 488 Fabrication of Precursor by Consolidating Aluminum Alloy Powder Using Friction Stir Welding and Its Foaming. **2022, 12, 338**
- 487 A multi-objective optimization using response surface model coupled with particle swarm algorithm on FSW process parameters.. **2022, 12, 2837** 2
- 486 Microstructure Evolution of AZ91 Alloy Processed by Twin Parallel Channel Angular Extrusion Technique. 1 0
- 485 Microstructure, mechanical properties, and pitting corrosion resistance of SAF 2205 duplex stainless steel after friction hydro-pillar processing. **2022, 120, 2047**
- 484 A comparative analysis on friction stir welding of similar and dissimilar polymers: acrylonitrile butadiene styrene and polycarbonate plates. 1 0
- 483 Center Stir Zone Investigations of Dissimilar AA6082, AA2014 and AA7075 Welds.
- 482 Joining of Fibre-Reinforced Thermoplastic Polymer Composites by Friction Stir WeldingâA Review. **2022, 12, 2744** 1
- 481 Material characterization of pure aluminium blended with graphene by friction stir processing technique. **2022,**
- 480 Texture Evolution of Friction Stir-Processed Dual-Phase Steel. **2022, 53, 1889-1905** 1
- 479 Influence of reinforcement on weld bead characteristics of friction stir processed Al5083/NFA composite. **2022,**
- 478 Prediction of mechanical properties and hardness of friction stir welding of Al 5083/pure Cu using ANN, ICA and PSO model. **2022, 4, 1** 1
- 477 Effect of tool rotational speed on the friction stir welded aluminum alloys: A review. **2022,** 0
- 476 Development of Nano-Composites on Rare-Earth Mg-ZE41 Alloy Via Friction Stir Processing (FSP): Microstructure, Mechanical, and Tribological Properties. **2022, 74, 2047** 0

475	Experimental investigation of mechanical and tribological properties of AA2024-T3 friction stir welded butt joint. <b>2022,</b>	1
474	Superplasticity of a friction stir processed overaged WE54 magnesium alloy. <b>2022,</b>	1
473	New Trends in Friction Stir Processing: Rapid CoolingâA Review. 1	0
472	Effect of friction stir processing parameters on producing AA6061/ tungsten carbide nanocomposite. 095440892210835	1
471	Defects analysis in friction stir processing of magnesium based surface composites. <b>2022,</b>	
470	Investigation on aluminum based surface composite through FSP using metal (Fe-Sn-Mn) and ceramic (SiC) reinforcements. <b>2022,</b>	
469	Optimization of FSP parameters to fabricate AA7075-based surface composites using Taguchi technique and TOPSIS approach. 1-25	1
468	Effect of Friction stir processing parameters on microstructure and microhardness of aluminium based Metal matrix composites. <b>2022,</b>	1
467	Evaluation of the wear resistance of aluminium-based hybrid composite brake discs under relevant city rail environments. <b>2022,</b> 215, 110504	1
466	Microstructural and mechanical behavior of micro-sized SiC particles reinforced friction stir processed/welded AA7075 and AA6061. 1	0
465	Study on surface modification and fabrication of surface composites of magnesium alloys by friction stir processing: a review. <b>2022,</b> 69,	1
464	Numerical prediction of various defects and their formation mechanism during friction stir welding using coupled Eulerian-Lagrangian technique. 1-14	1
463	Microstructure and Mechanical Properties of Dissimilar Friction Stir Welded Joint AA7020/AA5083 with Different Joining Parameters.. <b>2022,</b> 15,	1
462	Prediction and validation of intermetallic compound formation during friction stir welding of AA6061 to commercially pure copper. 1-14	0
461	Welding Techniques for High Entropy Alloys: Processes, Properties, Characterization, and Challenges.. <b>2022,</b> 15,	0
460	Influence of process parameters and its effects on friction stir welding of dissimilar aluminium alloy and its composites â review. 1-34	1
459	Influence of Tool Probe Profiles on the Microstructure and Mechanical Properties of Underwater Friction Stir Welded AA5083 Material. 1	3
458	Work hardening in metastable high entropy alloys: A modified five-parameter model. <b>2022,</b>	0

457	A specific analytical study of friction stir welded Ti-6Al-4V grade 5 alloy: Stir zone microstructure and mechanical properties. <b>2022</b> , 76, 611-623	1
456	Influence of FSP Parameters on Wear and Microstructural Characterization of Dissimilar TIG Welded Joints with Si-rich Filler Metal. 1	3
455	Understanding the ductility versus toughness and bendability decoupling of large elongated and fine grained Al 7475 - T6 alloy. <b>2022</b> , 839, 142816	2
454	Microstructure and tensile behavior of a Bobbin friction stir welded magnesium alloy. <b>2022</b> , 840, 142861	2
453	Impact of tool offset and friction stir welding speed on interface morphology of a dissimilar T-lap joints. 1-7	
452	Influence of Reinforcement with Multi-Pass FSW on the Mechanical and Microstructural Behavior of Dissimilar Weld Joint of AA5083 and AA6061. 1	1
451	Microstructural Observations of an AA6082-T6 Hybrid Metal Extrusion & Bonding (HYB) Butt Weld. <b>2022</b> , 103489	
450	Mathematical modeling of friction stir welding and processing – A short review. <b>2022</b> ,	1
449	Effect of Microstructure and Tensile Shear Load Characteristics Evaluated by Process Parameters in Friction Stir Lap Welding of Aluminum-Steel with Pipe Shapes.. <b>2022</b> , 15,	0
448	Tensile property response of AZ91 Mg alloy subjected to pre-aging and high-force friction stir processing. <b>2022</b> , 841, 143033	0
447	Effect of tool eccentricity on the periodic material flow in friction stir welding process. <b>2022</b> , 220, 107164	1
446	Investigation of friction diffusion bonding of Al/Cu lap joint. 1	0
445	Friction stir processing of Al/B4C nanocomposites prepared by Stir-Ultrasonication casting method. <b>2022</b> ,	
444	Effect of ultrasonic impact treatment on microstructure and corrosion behavior of friction stir welding joints of 2219 aluminum alloy. <b>2022</b> , 18, 1631-1642	1
443	Experimental study on heat-affected zones of aluminum alloys in flow drill riveting. <b>2022</b> , 18, 1230-1244	
442	Effect of post-weld heat treatment on multi-scale microstructures and mechanical properties of friction stir welded T-joints of Al-Mg-Si alloys. <b>2022</b> , 18, 496-507	0
441	Effect of multi-pass friction stir processing on the microstructure evolution and corrosion behavior of ZrO <sub>2</sub> /AZ31 magnesium matrix composite. <b>2022</b> , 18, 1166-1179	2
440	Evaluation of microstructure and tribological behavior of FS-processed Al/SiC-BN <sub>h</sub> hybrid composite on the Al-1050 substrate. <b>2022</b> , 31, 103304	1

439	Design of a metallic glass dispersion in pure copper by friction stir processing. <b>2022</b> , 907, 164522	0
438	Investigation of the effect of tool probe profile on reinforced particles distribution using experimental and CEL approaches. <b>2022</b> , 5, 213-223	0
437	An investigation of microstructural background for improved corrosion resistance of WE43 magnesium-based composites with ZnO and Cu/ZnO additions. <b>2022</b> , 908, 164437	1
436	Improving toughness of medium-Mn steels after friction stir welding through grain morphology tuning. <b>2022</b> , 118, 243-254	0
435	Microstructure and corrosion behavior of Al-Ti-TiC-CNTs/AZ31 magnesium matrix composites prepared using laser cladding and high speed friction stir processing. <b>2022</b> , 152, 108078	3
434	Influence of rotation speed, transverse speed, and pin length during underwater friction stir welding (UW-FSW) on aluminum AA6063: A novel criterion for parametric control. <b>2022</b> , 5, 295-305	1
433	Effect of post weld artificial aging and water cooling on microstructure and mechanical properties of friction stir welded 2198-T8 Al-Li joints. <b>2022</b> , 123, 92-112	1
432	Effect of TIG and FSW Welding Processes on Mechanical Properties of Al-4.2Mg-0.6Mn-0.4Sc-0.1Zr Alloy. <b>2021</b> , 71, 299-304	1
431	Influencing Geometrical Parameters of Tools in Friction Stirring Technology: A Short Review. <b>2021</b> , 71, 257-290	
430	Effect of friction stir processing on microstructural and mechanical properties of lightweight composites and cast metal alloys – a review. <b>2021</b> , 34, 169-195	2
429	Effect of Carbonitriding on Tribomechanical and Corrosion-Resistant Properties of Friction Stir Welded Aluminium 2024 Alloy. <b>2021</b> , 71, 199-212	
428	WITHDRAWN: Analyzing of mechanical properties and microstructure of friction stir welded AZ31 magnesium alloy joint. <b>2021</b> ,	0
427	A crystal plasticity based approach to establish role of grain size and crystallographic texture in the Tension-Compression yield asymmetry and strain hardening behavior of a Magnesium-Silver-Rare Earth alloy. <b>2021</b> ,	0
426	Effect of Al <sub>2</sub> O <sub>3</sub> nanoparticles on microstructure and mechanical properties of friction stir-welded dissimilar aluminum alloys AA7075-T6 and AA6061-T6. 095440892110655	2
425	Assisted cooling approach for FSW of pure copper. <b>2022</b> , 36, 1-8	
424	Various welding processes for joining aluminium alloy with steel: Effect of process parameters and observations – a review. 095440622110596	2
423	Investigation for mechanical properties of dissimilar friction stir welded joints of AA5083 and pure Cu. <b>2021</b> ,	0
422	Friction Stir Processing of Additively Manufactured Ti-6Al-4V Alloy: Structure Modification and Mechanical Properties. <b>2022</b> , 12, 55	1

421	Evaluation of the thermodynamic possibility of in-situ composites fabrication in aluminum-metal and aluminum-metal oxide systems through friction stir processing. <b>2021</b> , 11, 544-547	
420	Basic Tool Design Guidelines for Friction Stir Welding of Aluminum Alloys. <b>2021</b> , 11, 2042	2
419	A Review on Friction Stir Welding of Steels. <b>2021</b> , 34,	8
418	Tool tilt angle induced variation of shoulder-workpiece contact condition in friction stir welding. <b>2022</b> , 27, 68-76	1
417	Influence of plasma electrolytic oxidation coating on corrosion characteristics of friction stir welded ZE41 rare earth magnesium alloy. <b>2021</b> , 9, 045049	1
416	Friction stir welding: Types, merits & demerits, applications, process variables & effect of tool pin profile. <b>2021</b> ,	1
415	Microstructure and Mechanical Properties of Friction Stir-Welded Dissimilar Joints of ZK60 and Mg-4.6Al-1.2Sn-0.7Zn Alloys.. <b>2021</b> , 15,	0
414	Effect of Welding Emissions on Health and Its Remedy by Friction Stir Welding. <b>2022</b> , 159-167	
413	Influence of welding parameters on joint properties and possibility of post-weld cold-rolling of Friction stir welded aluminum alloy 5083. <b>2022</b> , 67, 3-10	
412	The influence of process parameters on the preparation of closed-cell aluminum foam by friction stir processing. <b>2022</b> , 120, 2489-2501	1
411	Novel correlations between process forces and void morphology for effective detection and minimization of voids during friction stir welding. 1-14	
410	Selection of the optimal process parameters in friction stir welding/processing using particle swarm optimization algorithm. <b>2022</b> ,	1
409	Optimization of Aluminum-to-Steel Friction Stir Lap Welding for the Fabrication of High-Integrity Structural Components. <b>2022</b> , 100114	2
408	On the Heterogeneous Distribution of Secondary Precipitates in Friction-Stir-Welded 2519 Aluminium Alloy. <b>2022</b> , 12, 671	0
407	NUMERICAL MODELING OF DEFECT FORMATION IN FRICTION STIR WELDING. <b>2022</b> , 103539	0
406	A Numerical and Experimental Study into Thermal Behavior of Micro Friction Stir Welded Joints of Al 1050 and Copper Sheets. 1170, 49-60	1
405	A review of recent progress in the fabrication of surface composites through friction stir processing. <b>2022</b> ,	2
404	Contour Method with Uncertainty Quantification: A Robust and Optimised Framework via Gaussian Process Regression. 1	0

403	A coupled experimental and numerical analysis of AA6063 friction stir welding. 095440622210858	0
402	Effects of Welding Process Conditions on Friction Stir Welding of Polymer Composites: A Review. <b>2022</b> , 100269	1
401	Friction Stir Spot Welding of Different Thickness Sheets of Aluminum Alloy AA6082-T6.. <b>2022</b> , 15,	4
400	A Review of the Friction Stir Welding of Dissimilar Materials between Aluminum Alloys and Copper. <b>2022</b> , 12, 675	3
399	Identification of a Quaternary Intermetallic Compound in the Stirred Zone of Friction Stir Welded 5083 Aluminum Alloy with 316L Steel.	
398	Effect of Friction Stir Welding Speeds on Interface Formation of Dissimilar T-joint Aluminum Alloys. <b>2022</b> , 130-134	
397	Numerical Simulation of Heat Generation During Plunging Stage in Orbital Friction Stir Welding on Pipe Aluminum Alloys AA6061-T6 Adapting a Pure Lagrangian Formulation. <b>2022</b> , 453-464	
396	Friction stir welding of Ti-2Al-1.5Mn alloy. <b>2022</b> ,	
395	High-Quality Dissimilar Friction Stir Welding of Al to Steel with No Contacting between Tool and Steel Plate.	
394	EBSD characterization of friction-stir processed 6061-T6 aluminum alloy. <b>2022</b> ,	
393	In-Situ Formation of Al-Ni Intermetallic Particulates and Property Improvement in 7075 Aluminum Alloy by Friction Stir Processing Using Ni Nano Powders.	
392	Effect of Square Pin Tool on Friction Stir Welded AA 6061-T6 from the Perspective of Revolution Pitch. 27,	
391	Review on the advancements and relevance of emerging joining techniques for aluminium to polymers/carbon fibre-reinforced polymer lightweight hybrid structures. 146442072210903	2
390	A critical review on mechanical and microstructural properties of dissimilar aluminum (Al)-magnesium (Mg) alloys. 1-33	1
389	Effect of friction stir processing on the high cycle fatigue behavior of AZ31B alloy. <b>2022</b> ,	
388	A Mechanical and Microstructural Study on Friction Stir Welding of 5083 Aluminum Alloy Based on Optimal Values of the Response Surface Method.	1
387	Superplastic behavior of friction-stir welded Al-Mg-Sc-Zr alloy in ultrafine-grained condition. <b>2022</b> , 32, 1083-1095	1
386	No ball milling needed: Alternative ODS steel manufacturing with gas atomization reaction synthesis (GARS) and friction-based processing. <b>2022</b> , 153768	0

- 385 Tribo-informatics approaches in tribology research: A review. 1 1
- 384 Review of various methods of keyhole removal in friction stir welding sheets and pipes. **2022**,
- 383 Analysis on the Process ParametersâImpact on the Temperature of Friction Stir Jointing Process of 7022 Aluminum Alloy.
- 382 Strength optimization of low-pressure transient liquid phase bonded TiâAlâV similar joint with CuâNi multi-interlayer. **2022**, 143275 0
- 381 Investigation on the friction stir assisted lap joining of pure copper and aluminium 6063 alloy. **2022**, 0
- 380 Microstructure, hardness, and wear properties of AA6061/WC nanocomposite fabricated by friction stir processing. 095440622210919 0
- 379 Investigation on thermo-mechanical performances of friction stir welding of aluminum alloys (AA6063). 1-15
- 378 Friction stud riveting (FSR) of thick high-strength aluminum alloy structure. **2022**, 177, 103889 0
- 377 Improving Adhesion Strength and Electrical Conductivity of Cold-Sprayed Al Deposit on Cu Substrate Through Friction-Stir-Processing. 1
- 376 Microstructure transition and mechanical properties of friction stir processed CoCrFeMnNi high entropy alloy fabricated by laser powder bed fusion. **2022**, 845, 143254 1
- 375 Superb strengthening behavior in a precipitation strengthened Co-rich CoCrNiAlTi medium entropy alloy with acceptable ductility. **2022**, 146, 107582 0
- 374 Force data-driven machine learning for defects in friction stir welding. **2022**, 217, 114765 0
- 373 Optimization of Process Parameters for Friction Stir Welding of Different Aluminum Alloys AA2618 to AA5086 by Taguchi Method. **2022**, 2022, 1-9 1
- 372 Influence of welding parameters on mechanical, microstructure, and corrosion behavior of friction stir welded Al 7017 alloy. **2022**, 143303 0
- 371 Friction stir welding of Nb-1Zr alloy. **2022**, 132463
- 370 Tensile behavior of friction stirs welded (Aa6061-T6 & Aa5083- H111) dissimilar aluminum alloy joints using response surface methodology. **2022**,
- 369 A novel through-length gradient structure assisted strength-ductility synergy in hot-rolled tungsten. **2022**, 110775 1
- 368 Exfoliation corrosion susceptibility on friction stir welded aluminium 6061/Cr2O3 composite. **2022**, 4, 025029 0



367	Review on latest trends in friction-based additive manufacturing techniques. 095440622211017	0
366	Nanocomposite AlCoCrFeNi <sub>2.1</sub> high-entropy alloy produced by FSP. <b>2022,</b>	1
365	A comparative study on friction stir welding of tailor weld blanks. 1-14	1
364	Finite Element Analysis and Experimental Investigation on Effect of Process Parameters in Plasma-Assisted Friction Stir Welding of Low Carbon Steel.	1
363	Stress state analysis of friction stir welding.	
362	Improved joint strength between friction-stir welded plates of Al alloy and thermoplastic vulcanizate. <b>2022,</b> 126251	0
361	Influence of Pin Shape Geometry on the Torque, Forces, and Residual Stresses in Friction Stir Welding of 5052-H34 Aluminum Alloy. 27,	
360	Corrosion, stress corrosion cracking and corrosion fatigue behavior of magnesium alloy bioimplants. <b>2022,</b>	1
359	Effect of static annealing on superplastic behavior of a friction stir welded Ti-6Al-4V alloy joint and microstructural evolution during deformation. <b>2022,</b>	1
358	Characterization of Microstructure and Mechanical Properties of Friction Stir Welded Reduced Activation Ferriticâ€Martensitic Steel in As-Received, As-Welded and Post-weld Heat-Treated States.	
357	Effect of high tool rotational speed and pin diameter on mechanical properties, microstructure and formability of friction stir tailor welded blanks. 1-29	
356	Properties Augmentation of Cast Hypereutectic Alâ€Si Alloy Through Friction Stir Processing.	1
355	Influence of Tool and Welding Parameters on the Risk of Wormhole Defect in Aluminum Magnesium Alloy Welded by Bobbin Tool FSW. <b>2022,</b> 12, 969	
354	Achieving ultra-high strength using densely ultra-fine LPSO phase. <b>2022,</b> 129, 135-138	0
353	Obtaining of aluminum alloys weld joints with specified strength properties by friction stir welding. <b>2022,</b>	
352	Fabrication of aluminum foam by friction stir processing with zero-degree tilt angle. <b>2022,</b> 72, 271-273	
351	Microstructure and mechanical properties of a welded joint obtained by friction stir welding of thin copper and aluminum plates. <b>2022,</b> 12, 106-110	1
350	Effect of process parameters on friction stir welded joints of AA 7039. <b>2022,</b>	1

- 349 Optimization of the Welding Properties of Friction Stir Weld Butt Joints Using the Response Surface Method Based on Taguchi's Design.
- 348 Influence of Nano-Sized Al<sub>2</sub>O<sub>3</sub> Nanoparticles and Multipass FSW on Microstructure and Mechanical Characteristics of Dissimilar Welded Joints of AA6061 and AA5083.
- 347 Corrosion Properties of Dissimilar AA6082/AA6060 Friction Stir Welded Butt Joints in Different NaCl Concentrations. 0
- 346 Toward devising pilot experiments to establish parameter window for FSP of aluminum alloys. **2022**, 14, 168781322211082 0
- 345 Experimental Investigations into the Mechanical and Metallurgical Characteristics of Friction Stir Welded AZ31 Magnesium Alloy. 0
- 344 Improving appearance and mechanical strength of aluminum-polypropylene/talc composite friction stir joint using a novel tool design.
- 343 Process of simultaneously fabricating and foaming precursor using frictional heat generated during friction stir welding.
- 342 Numerical investigation of dissimilar friction stir welding of AISI 304L and 410S stainless steels. **2022**, 121, 2721-2733 0
- 341 Quantitated heterogeneity of serrated flow and the microstructural analysis in stirred zone. **2022**, 848, 143414 0
- 340 Texture features and strengthening mechanisms in welding nugget zone of SSFSWed thick-plate Al<sub>7075</sub> alloy joint. **2022**, 848, 143459 0
- 339 Coupling effect of axial ultrasonic vibration and tool thread on the microstructure and properties of the friction stir lap welding joint of Al/Mg dissimilar alloys. **2022**, 80, 95-107 0
- 338 The evolution of main textures and the formation of P orientation with nanoprecipitates after friction stir processing. **2022**, 80, 591-599 0
- 337 An investigation of mechanical and electrical properties of friction stir welded Al and Cu busbar for battery pack applications. **2022**, 287, 126373 0
- 336 Manufacturing of coarse and ultrafine-grained aluminum matrix composites reinforced with Al<sub>2</sub>O<sub>3</sub> nanoparticles via friction stir processing. **2022**, 80, 359-373 2
- 335 Effects of biaxial residual stress components on mixed-mode fatigue crack propagation behavior in friction stir welded 7075-T6 aluminium alloy panel. **2022**, 121, 103437 1
- 334 Thermomechanical analysis of induction assisted friction stir welding of Inconel 718 alloy: A finite element approach. **2022**, 199, 104731 0
- 333 Microstructure, mechanical and corrosion behaviour of friction stir welding of AA6061 Al alloy and AZ31B Mg alloy. **2022**, 119, 413 1
- 332 Friction Stir Channel Pressing of Carbon Nanotubes Reinforced 7075 Aluminium Alloy Composite.

331	Optimization of process parameters for friction stir welding of dissimilar aluminum alloys using different Taguchi arrays. <b>2022</b> , 121, 3935-3964	0
330	Material extrusion 3D printing and friction stir welding: an insight into the weldability of polylactic acid plates based on a full factorial design. <b>2022</b> , 121, 3817-3839	1
329	Effect of tool offsetting on friction stir welding of dissimilar aluminium matrix composite and aluminium alloy. 1-8	0
328	Effect of rotational speed and double-sided welding in friction stir welded dissimilar joints of aluminum alloy and steel.	0
327	Numerical Simulation of the Thermo-Mechanical Behavior of 6061 Aluminum Alloy during Friction-Stir Welding. <b>2022</b> , 6, 68	1
326	A Survey of Machine Learning in Friction Stir Welding, including Unresolved Issues and Future Research Directions. <b>2022</b> , 2022, 1-28	2
325	Evaluating Interlayer Gaps in Friction Stir Spot Welds for Rapid Tooling Applications. 1-17	
324	Pin length, pin offset, and reversed metal flow interaction in the improvement of dissimilar friction stir welded T-lap joints.	0
323	Microstructure and Mechanical Properties Correlation of FSAM Employed AA5083/AA7075 Joints.	1
322	Effect of the microstructure on the corrosion behavior of dissimilar friction stir-welded 304 austenitic stainless steel and Q235 low-carbon steel joints.	
321	Effect of nano-Sized Al <sub>2</sub> O <sub>3</sub> Particles on Microstructure and Mechanical Properties of Aluminum Matrix Composite Fabricated by Multipass FSW. 095440622211108	1
320	Investigation on the effect of process parameters on mechanical and microstructural properties of AA8011 similar FSW weld joints. <b>2022</b> , 14, 168781322211121	
319	Mechanical Properties of Weld Joint by Friction Stir Welding on Aluminum Alloy 5083. <b>2023</b> , 37-42	
318	Effect of Rotation Speed on Microstructure and Mechanical Properties of Continuous Drive Friction Welded Dissimilar Joints of 6061-T6 Al and Copper. <b>2022</b> , 12, 1173	0
317	Optimization and effect of B <sub>4</sub> C/Al <sub>2</sub> O <sub>3</sub> with graphite particulates on tribological properties of Al7075 surface hybrid nanocomposite.	
316	Multi-objective parametric optimization of FSW for mechanical properties of AA5083 joint. <b>2022</b> ,	1
315	Effect of friction stir spot welding parameters on the microstructure and properties of joints between aluminium and copper.	
314	Influence of machine variables on the microstructure and mechanical properties of AA6061/TiO <sub>2</sub> friction stir welds. 1-16	

- 313 Dynamic recrystallization, Laves phase evolution and mechanical performance of Nb containing FeCrAl alloy joints fabricated by friction stir welding. **2022**, 143575 ○
- 312 Friction Stir Welding of Similar Aluminum Alloys Thick Plates: Understanding the Material Flow, Microstructure Evolution, Defect Formation, and Mechanical Properties. **2022**, 24, 101508 ○
- 311 High-quality dissimilar friction stir welding of Al to steel with no contacting between tool and steel plate. **2022**, 191, 112128 1
- 310 Friction stir welding of SS 316 LN and Nitronic 50 jacket sections for application in superconducting fusion magnet systems. **2022**, 221, 110949 1
- 309 The heterogeneity of dynamic recrystallization and texture evolution in stirring zone of Al-Mg-Sc alloy. **2022**, 191, 112092 ○
- 308 Investigation of through-thickness microstructural evolution and mechanical properties variation in friction stir alloyed Al-Fe alloy system. **2022**, 921, 166154 ○
- 307 Analysis of the influence of welding parameters on defects and welding characteristics of aluminum-magnesium alloy 5052-H34 in the FSW process. ○
- 306 Effect of microstructure and intermetallic precipitates on the electrochemical behavior of dissimilar AA6061-T6/ER5183/AA5086-H32 aluminum TIG weld. ○
- 305 Heterogeneous deformation of friction stir welded aluminum alloy 6061 in tension and high cycle fatigue. ○
- 304 Multifunctional Metal Matrix Composites by Friction Stir Additive Manufacturing. 1
- 303 Interface microstructure of friction stir welded aluminum alloy and stainless steel. ○
- 302 Influence of cooling environment on microstructure and mechanical properties of AA6082-T6 and AA7050-T7 dissimilar friction stir welds. 095440622211145 ○
- 301 Impression creep behavior of different zones in friction stir welded ZE41 magnesium-rare earth alloy. **2022**, 851, 143615 1
- 300 Mechanical and stress corrosion cracking behavior of welded 5059H116 alloy. **2022**, 206, 110528 ○
- 299 Analysis of the impact factors from the friction stir welding process for dissimilar butt joints between semi-solid cast aluminum 356 and AISI 1018 carbon steel. **2021**, 31, 1-9 ○
- 298 Material Properties and Tool selection for Friction Stir Welding: A Review. **2022**, ○
- 297 Microstructures and mechanical properties of non-thinning and penetrating friction stir welded 2219-T6 aluminum alloy. **2022**, 121, 6569-6579 ○
- 296 A stationary shoulder with fluid temperature control for friction stir welding of polymers: development and investigation. **2022**, 121, 5901-5911 ○

295	Thermomechanical analysis of friction stir welding using a new velocity-based model for tool-workpiece interaction. <b>2022</b> , 121, 7341-7357	
294	Prediction of intrinsic fatigue crack growth rates in friction stir welded aluminum alloys. <b>2022</b> , 57, 13756-13766	
293	Impression creep behavior of different zones in friction stir welded Mg-Zn-Mn wrought alloy. <b>2022</b> , 57, 15059-15077	
292	Closed-Loop Temperature and Force Control of Additive Friction Stir Deposition. <b>2022</b> , 6, 92	2
291	Unveiling the enhanced mechanical properties of friction stir welded AZ31 joint by pre-ultrasonic surface rolling. <b>2022</b> ,	
290	Numerical simulation for the comparison of thermal and plastic material flow behavior between symmetrical and asymmetrical boundary conditions during friction stir welding.	
289	Review of post-processing methods for high-quality wire arc additive manufacturing. 1-18	1
288	A review on magnesium alloys for biomedical applications. 10,	2
287	Study on the Temperature Field and Flow Behavior of Magnesium-Based Biocomposites Prepared by Friction Stir Processing with High Rotating Speed: Experiment and Numerical Simulation.	0
286	Regularities of Structure Formation in AA2024 Alloy During High-Intensity Plastic Deformation Under Conditions of Adhesion-Diffusion Friction Interaction.	
285	Influence of hybrid pin profile on enhancing microstructure and mechanical properties of AA5052/SiC surface composites fabricated via friction stir processing. 1-14	2
284	Effect of processing parameters and heat treatment techniques on foaming properties of aluminium foam developed by friction stir processing route. 146442072211175	2
283	Review Parametric Study and Various Strategies of Aluminium Metal Matrix Composites Fabricated by Friction Stir Processing.	0
282	Mathematical modeling and optimization of friction stir welding process parameters for armor-grade aluminium alloy.	0
281	Microstructure, mechanical and corrosion properties of differently cooled friction stir welded joints of Al and Mg alloys. <b>2022</b> , 10, 035017	1
280	Tailoring surface properties of aerospace-grade aluminium alloy through solid-state friction stir processing. 146442072211197	
279	The role of pin eccentricity in friction stir welding of Al-Mg-Si alloy sheets: microstructural evolution and mechanical properties. <b>2022</b> , 121, 7661-7675	2
278	Development of Carbon Nanotube (CNT)-Reinforced Mg Alloys: Fabrication Routes and Mechanical Properties. <b>2022</b> , 12, 1392	0

- 277 Evolution of Residual Stresses in Friction Stir Welded Joints of AA7039. 2
- 276 A Comprehensive Review of Friction Stir Techniques in Structural Materials and Alloys: Challenges and Trends. **2022**, 4
- 275 Exit-Hole-Free Friction Stir Spot Welding of Aluminum Alloy Sheets Using a Consumable Pin.
- 274 Multi-Response Optimization and Investigation of Dry Sliding Wear Behavior of Al7075 Surface Hybrid Nano Composite Using Response Surface Methodology.
- 273 Experiment and simulation of SiC particle-reinforced aluminum matrix composites fabricated by friction stir processing.
- 272 Laser powder bed fusion: a state-of-the-art review of the technology, materials, properties & defects, and numerical modelling. **2022**, 20, 2109-2172 3
- 271 Three-dimensional microstructure of a friction stir welded magnesium/steel interface characterized via high-energy synchrotron X-rays. **2022**, 852, 143708
- 270 Analyzing time series of serrated flow and the dependence on structural heterogeneity in Al-Mg-Sc alloy. **2022**, 221, 111006 0
- 269 New methodology of dynamical material response of dissimilar FSWed Al alloy joint under high strain rate laser shock loading. **2022**, 222, 111080 0
- 268 Microstructure and texture characterization in friction stir lap welded TIMETAL 21S. **2022**, 192, 112216 1
- 267 Influence of heat input on the appearance, microstructure and microhardness of pulsed gas metal arc welded Al alloy weldment. **2022**, 21, 121-130 0
- 266 Ambient, elevated temperature tensile properties and origin of strengthening in friction stir welded 6 mm thick reduced activation ferritic-martensitic steel plates in as-welded and post-weld normalised conditions. **2022**, 857, 144019 1
- 265 Determination of self-adaptive slip rate at tool/workpiece interface in numerical model of friction stir welding. **2022**, 33, 104428 0
- 264 Heterogenous activation of dynamic recrystallization and twinning during friction stir processing of a Cu-4Nb alloy. **2022**, 928, 167007 0
- 263 Applications of reinforcement particles in the fabrication of Aluminium Metal Matrix Composites by Friction Stir Processing - A Review. **2022**, 9, 26 0
- 262 Fabrication of metal matrix composites based on aluminum alloys by friction stir processing. **2022**, 0
- 261 Influence of Welding Parameters on the Mechanical Properties and Microstructure of 7075-T651 Aluminum Alloys Welded Joints Performed by FSW Process. 25, 0
- 260 Microstructure and Mechanical Behaviour of Reinforced Aluminium-Based Surface Composites Synthesized by Friction Stir Processing Route: A Review. **2022**, 397-408 0

- 259 Forming Mechanism, Mechanical Properties, and Corrosion Properties of Aluminum Alloy Sheet with Gradient Structure Processed by Plastic Flow Machining. ○
- 258 Electrochemical Corrosion Behavior of 6061 Aluminum Alloy at High Rotating Speed Submerged Friction Stir Processing. ○
- 257 Introduction. **2022**, 1-19 ○
- 256 Deposition Process. **2022**, 95-150 ○
- 255 Sustainable design and manufacture of lightweight vehicle structures. **2022**, 431-457 ○
- 254 Friction stir welding of additively manufactured blanks in thermoplastic polymer. **2022**, 112, 448-453 ○
- 253 Identification of a Pseudoternary Intermetallic Compound in the Stirred Zone of Friction Stir Welded 5083 Aluminum Alloy with 316l Steel. ○
- 252 Effect of the offset between double-pass on texture and tensile properties of dissimilar friction stir welded joints of ZK60 and Mg-4.6Al-1.2Sn-0.7Zn alloys. **2023**, 330, 133272 ○
- 251 Welding of Polymeric Materials in Aircrafts. **2022**, 29-59 ○
- 250 Effect of friction stir welding parameters on corrosion behaviour of aluminium alloys: an overview. **2022**, 57, 696-707 ○
- 249 Surface hardening of an Al-Si-Cu-Ni-Mg aluminum alloy by friction stir processing and T6 heat treatment. **2022**, 12, 255-260 1
- 248 Dissimilar metal welding on Mg AZ31 and AA 6061 alloys by using friction stir welding. ○
- 247 Microstructure and Mechanical Properties of Brass L63 after Friction Mixing Treatment. **2022**, 67-73 ○
- 246 Microstructural Characteristics and Hardness Enhancement of Super Duplex Stainless Steel by Friction Stir Processing. **2022**, 15, 6267 ○
- 245 Manufacturing of Ultrafine-Grained Copper via Rolling and Cooling-Assisted Friction Stir Processing: Effect of Traverse Speed. ○
- 244 Softening behavior of stationary shoulder friction stir welded joint for thick-plate Al<sub>70</sub>Si<sub>3</sub>Cu alloy. **2022**, 20, 3008-3024 ○
- 243 Numerical Simulation of Friction Stir Welding Process to Investigate the Material Flow in AA7020. **2023**, 165-175 ○
- 242 3D printing of fine-grained aluminum alloys through extrusion-based additive manufacturing: Microstructure and property characterization. **2022**, ○

- 241 Enhanced Fatigue Properties of 2219 Al Alloy Joints via Bobbin Tool Friction Stir Welding. ○
- 240 Characterization of AA7075 Surface Composites with Ex Situ Al<sub>2</sub>O<sub>3</sub>/SiC Reinforcements Tailored Using Friction Stir Processing. ○
- 239 A Review on Solid-State-Based Additive Friction Stir Deposition. **2022**, 9, 565 1
- 238 Investigating the Effect of Multi-pass Friction Stir Processing of SiC Particles on Temperature Distribution, Microstructure and Mechanical Properties of AA6061-T6 Plate. ○
- 237 Microstructural characterization and mechanical properties of AlMg alloy fabricated by additive friction stir deposition. ○
- 236 Mechanical properties and weld characteristics of friction stir welding of thermoplastics using heat-assisted tool. ○
- 235 Crystal plasticity model of induction heating-assisted incremental sheet forming with recrystallisation simulation in cellular automata. ○
- 234 Microstructure and corrosion resistance of friction stir-welded AZ61A/AZ40M Mg-alloy dissimilar joint. ○
- 233 Fatigue behaviour and impact strength assessment of friction stir-welded carbon steel joints. 095440892211306
- 232 Material flow visualization during friction stir welding using high-speed X-ray imaging. **2022**, 34, 62-66 ○
- 231 Successful joining of ultra-thin AA3003 aluminum alloy sheets by the novel GTAW process. **2022**, 111558 ○
- 230 Microstructural basis for improved corrosion resistance and mechanical properties of fabricated ultra-fine grained Mg-Akermanite composites. **2022**, 292, 126765 ○
- 229 Challenges and Solutions for Fabrication of Magnesium-Based Composites by Friction Stir Processing Technique. **2021**, 19, ○
- 228 Computation of Properties for a Friction Stir Welded 6082 Aluminum Alloy Using Artificial Neural Network Model. **2022**, 1-15 ○
- 227 The methods of processing to produce fine grain structure in magnesium alloys: An overview. **2022**, ○
- 226 Influence of friction stir process on the MIG cladded AA 6063 to study the wear performance. 1
- 225 Pre-weld friction stir processing enabling strong and ductile fusion welds on AZ91 magnesium alloy. 1-10 ○
- 224 Integrated Computational Materials Engineering for Advanced Automotive Technology: With Focus on Life Cycle of Automotive Body Structure. 2201057 ○



223	Heterogeneous microstructural characteristics of aluminum-addition friction stir-processed Al0.1CoCrFeNi alloy with strength&ductility synergy.	0
222	Comparison Study between Surface Bending and Base Bending in the Bending Strength and the Microstructure Variation for FSWed ZM6 Sheet. 2200936	0
221	Optimisation of underwater friction stir welding parameters of aluminum alloy AA5083 using RSM and GRA. 095440892211344	2
220	Present status and future trend of friction stir-based fabrication of NiTiInol: a review.	0
219	Free Intermetallic Cladding Interface between Aluminum and Steel through Friction Stir Processing. <b>2022</b> , 12, 1413	0
218	Corrosion behavior of severely plastically deformed Mg and Mg alloys. <b>2022</b> ,	1
217	On the Utility of the Thermal-Pseudo Mechanical Model& Residual Stress Prediction Capability for the Development of Friction Stir Processing.	0
216	Adhesive assisted TiB2 coating effects on friction stir welded joints. <b>2022</b> , 12,	0
215	Investigation of mechanical properties and antibacterial behavior of WE43 magnesium-based nanocomposite. <b>2022</b> , 126864	0
214	Friction and Wear Response of Friction Stir Processed Cu/ZrO2 Surface Nano-Composite. <b>2022</b> , 2022, 1-12	0
213	The Influence of the Tool Tilt Angle on the Heat Generation and the Material Behavior in Friction Stir Welding (FSW). <b>2022</b> , 12, 1837	0
212	Unraveling the heterogeneous evolution of the microstructure and texture in the thermomechanically affected zone of commercially pure titanium during friction stir processing. <b>2022</b> , 107894	0
211	Effect of ultrasonic treatment during stir casting on mechanical properties of AA6063-SiC composites. <b>2022</b> , 126977	0
210	Effects of process parameters on joint formation and tool wear behavior in friction stir welded TA5 alloy.	0
209	Characterization and evaluation of stable localized corrosion in a 7075-T6 aluminum alloy FSW joint before and after anodizing treatment.	0
208	Influence of SiC particles and post-heat treatment on the properties of Ti-6Al-4V-based surface nanocomposite fabricated by friction stir processing. <b>2022</b> , 449, 128985	1
207	Comparing the fatigue performance of Ti-4Al-0.005B titanium alloy T-joints, welded via different friction stir welding sequences. <b>2022</b> , 859, 144227	1
206	Effect of splat cooling on microstructures and mechanical properties of friction stir welded 2195 Al&Li alloy. <b>2022</b> , 858, 144169	2

- 205 Improving the mechanical properties of a friction stir welded AZ31 joint by adjusting the microstructure and texture. **2022**, 21, 2326-2337 ○
- 204 Reinforcing the exit hole from friction stir welding and processing. **2022**, 26, 101611 ○
- 203 The Trajectory of Additively Manufactured Titanium Alloys with Superior Mechanical Properties and Engineered Microstructures. **2022**, 60, 103245 ○
- 202 Achieving high performance of wire arc additive manufactured Mg-Al alloy assisted by interlayer friction stir processing. **2023**, 311, 117809 ○
- 201 Mechanical properties of Al-Mg alloys with equiaxed grain structure produced by friction stir processing. **2023**, 294, 127010 ○
- 200 Forming mechanism, mechanical properties, and corrosion properties of aluminum alloy sheet with gradient structure processed by plastic flow machining. **2023**, 933, 167800 1
- 199 Multiphase field simulation of dynamic recrystallization during friction stir welding of AZ31 magnesium alloy. ○
- 198 Large depth to width ratio friction stir welding joint obtained by novel designed tool with double pin. **2022**, 112497 ○
- 197 Evaluation of characteristics of friction stir welded Mg-Al-Zn magnesium alloy. **2022**, ○
- 196 A Quality Optimization Framework Combining Physics and Machine Learning Models: Case Study in a Friction Stir Welding Process. ○
- 195 Enhancing joint strength of bobbin tool friction stir welded Al-Mg-Si alloy via post-weld aging process. **2022**, ○
- 194 The effect of friction stir process on the mechanical, tribological, and biocompatibility properties of AZ31B magnesium alloy as a biomaterial: A pilot study. 095441192211356 ○
- 193 Enhancement of tensile and fatigue properties of hybrid aluminium matrix composite via multipass friction stir processing. **2022**, ○
- 192 A review of residual stress effects on fatigue properties of friction stir welds. 1-39 ○
- 191 Deformation based additive manufacturing of a metastable high entropy alloy via Additive friction stir deposition. **2022**, 103282 ○
- 190 Hall-Petch relation and grain boundary slipping in Al Mg Sc alloys with fine equiaxed grain structure. **2022**, 112472 ○
- 189 Additive friction stir deposition of SS316: Effect of process parameters on microstructure evolution. **2022**, 112470 ○
- 188 Evolutions of material flow and intermetallic compounds, and the correlations with mechanical properties of dissimilar Al/Cu friction stir welding joints. ○

187	Microstructural and Mechanical Characteristics of Friction Stir Welded Al6101/C11000 Joints with Zinc and Silver Interlayer.	0
186	Effect of Mono and Hybrid Reinforcement on Microhardness and Wear Behavior of Al-Mn Alloy Based Surface Composites Produced by Friction Stir Processing.	0
185	Mechanisms of abnormal grain growth in friction-stir-welded aluminum alloy 6061-T6. <b>2022</b> , 194, 112473	0
184	Fractographic Analysis of Friction Stir Welded Aluminium Alloy. <b>2023</b> , 167-179	0
183	Solid-State Welding of Aluminium Alloys. <b>2023</b> , 105-122	0
182	Solid-State Friction Welding Technology for Joining of Lightweight Metal and Alloys. <b>2023</b> , 147-165	0
181	Stress corrosion behavior and microstructure analysis of Al-Zn-Mg-Cu alloys friction stir welded joints under different aging conditions. <b>2023</b> , 210, 110821	1
180	Achievement of high strength and plasticity product of the nugget zone in friction stir welded high-Mn steel via controlling stacking fault energy. <b>2023</b> , 862, 144427	0
179	Inhomogeneity of Microstructure along the Thickness Direction in Stir Zone of Friction Stir Welded Duplex Stainless Steel. <b>2022</b> , 108, 966-978	0
178	Friction stir welding process parameters significance and impact on metal matrix composites joints: A brief review. <b>2022</b> ,	0
177	Enhanced mechanical and anticorrosion properties in cryogenic friction stir processed duplex stainless steel. <b>2023</b> , 225, 111492	0
176	Microstructure and mechanical properties of Al/graphite- zirconium oxide hybrid composite fabricated by friction stir processing. <b>2023</b> , 862, 144470	0
175	Friction stir welding of industrial grade AISI 316L and P91 steel pipes: A comparative investigation based on mechanical and metallurgical properties. <b>2023</b> , 201, 104865	1
174	Study on microstructure and mechanical properties of RSW joints of 7075T-6 containing Sc. <b>2023</b> , 12, 1-9	0
173	Friction stir welding and its applications: An overview. <b>2022</b> ,	0
172	Solid-state welding and its applications: A methodological review. <b>2022</b> ,	0
171	Deformation behavior and formability of friction stir processed DP600 steel. <b>2022</b> , 20, 1467-1475	1
170	Effect of Shoulder Fillet Radius on Welds in Bobbin Tool Friction Stir Welding of A1050. <b>2022</b> , 12, 1993	1

- 169 Friction stir welding for manufacturing of a light weight combat aircraft structure. **2022**, 64, 1782-1795 ○
- 168 Light metal modification and composite preparation by a new solid-state processing process: Rotational friction extrusion. **2022**, 21, 4886-4892 ○
- 167 Multiresponse optimization of friction stir welding by an integrated ANN-PSO approach. 095440542211381 ○
- 166 Influence of Friction Stir Processing on the Mechanical and Microstructure Characterization of Single and Double V-Groove Tungsten Inert Gas Welded Dissimilar Aluminum Joints. ○
- 165 Mechanical Properties and Microstructure Evolution of Double-Sided Friction Stir Welding AA6061-T6. 935, 73-81 ○
- 164 Achieving a high-strength dissimilar joint of T91 heat-resistant steel to 316L stainless steel via friction stir welding. **2023**, 30, 166-176 ○
- 163 Synthesis of far-from-equilibrium materials for extreme environments. ○
- 162 A critical review on microstructure and hardness of aluminum alloy 6061 joints obtained by friction stir welding-past, present, and its prospects. **2022**, ○
- 161 Thermo-Mechanical Modelling of Friction Stir Processing of AZ91 Alloy: Using Smoothed-Particle Hydrodynamics. **2022**, 10, 355 ○
- 160 Fatigue performance of thick 6061-T6 aluminum friction stir welded joints with misalignment or channel defects. ○
- 159 Effect of tool design and pass strategy on defect elimination and uniform, enhanced tensile properties of friction stir processed high-pressure die-cast A380 alloy. **2022**, 861, 144388 ○
- 158 Understanding the Material Flow MechanismsâMicrostructure EvolutionâDefect Formation Relationships and Effects on Mechanical Properties in Friction Stir Welding of Dissimilar Aluminum Alloys. ○
- 157 An experimental study of friction stir welding parameters effect on joint properties of aluminium alloy and copper plate. ○
- 156 Microstructure, mechanical properties and corrosion behavior of friction stir processed AA2014 alloy. **2023**, 23, ○
- 155 Effect of CMT Welding Heat Input on Microstructure and Properties of 2A14 Aluminum Alloy Joint. **2022**, 12, 2100 1
- 154 Overcoming challenges in using magnesium-based materials for industrial applications using friction-stir engineering. 1-11 ○
- 153 Microstructures and mechanical properties of AlCoCrFeNi<sub>2.1</sub>/6061-T6 aluminum-matrix composites prepared by friction stir processing. **2022**, 144544 ○
- 152 Prediction of Initial Crack Propagation Direction of Dissimilar Friction Stir Welded T-Joint. **2023**, 123-132 ○

- 151 Formation of intermetallic compounds (IMCs) in FSW of aluminum and magnesium alloys (Al/Mg alloys) â review. **2022**, 33, 105017 o
- 150 Synergy of tensile strength and high cycle fatigue properties in a novel additively manufactured Al-Ni-Ti-Zr alloy with a heterogeneous microstructure. **2022**, 103380 o
- 149 Effects of the microstructure on the fatigue fracture of friction stir lap welded Al-clad Al and Al-clad steel sheets. **2022**, o
- 148 Defect Substructure Energy Landscape in Polycrystalline Al under Large Deformation: Insights from Molecular Dynamics. **2022**, o
- 147 Dissimilar Friction Stir Welding of AA2519 and AA5182. **2022**, 15, 8776 o
- 146 Ti2SC MAX phase enhanced wear characteristics of Al 2024 via friction stir processing. 1-19 o
- 145 Hydrogen embrittlement behavior in the nugget zone of friction stir welded X100 pipeline steel. **2022**, o
- 144 Quantitative analysis of susceptibility to intergranular corrosion in alloy 625 joined by friction stir welding. 1-7 o
- 143 The Effect of Tool Rotation on Structure and Mechanical Properties in Friction Stir Welding Of Aluminum AA5052. 9, 83-89 o
- 142 Understanding the effect of particle reinforcement on friction stir weldment: A review. 146442072211402 o
- 141 An analytical model for predicting the extrusion force for the torsion extrusion process of metals. **2022**, 1270, 012075 o
- 140 Effect of micro-grooves featured tool and their depths on dissimilar micro-friction stir welding (FSW) of aluminum alloys: A study of process responses and weld characteristics. **2022**, 112614 o
- 139 Current research and developments in welding of 18% nickel maraging steel. 146442072211425 o
- 138 Aluminum foam development by filling architecture techniques and process optimization. 095440542211479 o
- 137 Microstructure Evolution and Interfacial Bonding Properties of Dissimilar T-Lap Joints Using Friction Stir Welding Parameters. o
- 136 Acoustoelasticity to measure residual stresses in plates of 5052 aluminum joined by FSW. **2023**, 45, o
- 135 Effect of surface oxide layers in solid-state welding of aluminium alloys âreview. 1-21 o
- 134 Numerical Simulation of the Donor-Assisted Stir Material for Friction Stir Welding of Aluminum Alloys and Carbon Steel. **2023**, 13, 164 1

- 133 Three-dimensional magnetic field and thermal environment, and parameter uncertainty effects on nonlinear torsional vibration of an embedded rod composed of two dissimilar rods welded by friction welding. **2023**, 45, ○
- 132 Fatigue life improvement of similar and dissimilar aluminum friction stir welds by deep rolling. ○
- 131 Magnesium based alloys and composites: revolutionized biodegradable temporary implants and strategies to enhance their performance. **2023**, 101680 ○
- 130 Microstructure, texture, and mechanical properties correlation of AA5083/AA6061/SiC composite fabricated by FSAM process. **2023**, 296, 127210 ○
- 129 Impact-induced bonding process of copper at low velocity and room temperature. **2023**, 226, 111603 1
- 128 Modification of flame-sprayed NiCrBSi alloy wear-resistant coating by friction stir processing and furnace re-melting treatments. **2023**, 455, 129236 ○
- 127 Investigation on material flow and microstructural evolution mechanism in non-thinning and penetrating friction stir welded Al $\text{-Cu}$  aluminum alloy. **2023**, 864, 144572 ○
- 126 Effect of friction stir repair welding on microstructure and corrosion properties of 2219-T8 Al alloy joints. **2023**, 196, 112634 ○
- 125 Influence mechanism of pin thread in friction stir welding of magnesium alloys based on the relationship between microstructure and mechanical properties. **2023**, 312, 117870 1
- 124 Mathematical Model for the Temperature Distribution on The Surface of Two Aluminum Alloys Welded by Friction Stir Welding. **2022**, 33, 47-58 ○
- 123 Effect of retrogression and reaging (RRA) on pitting and stress corrosion cracking (SCC) resistance of stir zone of high strength AA7075-T651 alloy joined by friction stir welding. **2022**, ○
- 122 High specific strength MWCNTs/Mg-14Li-1Al composite prepared by electrophoretic deposition, friction stir processing and cold rolling. **2022**, 32, 3914-3925 ○
- 121 Microstructural assessment of friction stir joined AA6063/10.5%SiC Al-matrix composite. **2022**, ○
- 120 Review of Joining Various Materials by FSW Process and Applications. **2022**, 33, 75-88 ○
- 119 A Comprehensive Technical Review of the Friction Stir Welding of Metal-to-Polymer Hybrid Structures. **2023**, 15, 220 ○
- 118 Introduction to sustainable manufacturing processes. **2023**, 1-28 ○
- 117 Review: Corrosion behavior of friction stir welded magnesium alloys. **2023**, ○
- 116 To investigate the effect of process parameters on the dissimilar welded joint of AA7075 and Cu. **2023**, ○

115	Prediction of Mechanical Properties and Optimization of Friction Stir Welded 2195 Aluminum Alloy Based on BP Neural Network. <b>2023</b> , 13, 267	1
114	Grain Structure Formation and Texture Modification through Multi-Pass Friction Stir Processing in AlSi10Mg Alloy Produced by Laser Powder Bed Fusion. <b>2023</b> , 16, 944	0
113	Effect of tool traverse speed on joint line remnant and mechanical properties of friction stir welded 2195-T8 Al <sub>2</sub> O <sub>3</sub> alloy joints. <b>2023</b> , 42,	0
112	Sustainable manufacturing. <b>2023</b> , 53-112	0
111	Refill friction stir spot welding of AZ31 magnesium alloy sheets: Metallurgical features, microstructure, texture and mechanical properties. <b>2023</b> ,	1
110	Joining of Aluminum Alloy AA7075 and Titanium Alloy Ti-6Al-4V through a Friction Stir Welding-Based Process. <b>2023</b> , 13, 249	0
109	Influence of friction stir processing on microstructure, mechanical properties and corrosion behaviour of Mg-Zn-Dy alloy. <b>2023</b> , 58, 2893-2914	0
108	Grain size effects on high cycle fatigue behaviors of pure aluminum. <b>2023</b> , 170, 107556	0
107	Tool geometry effect on material flow and mixture in FSW. <b>2022</b> , 47, 33-36	0
106	Numerical investigation of friction stir welding parameters on microstructure, thermal and mechanical properties of ultrafine-grained Al-0.2 wt% Sc alloy sheet. <b>2023</b> , 30, 61-73	0
105	On the Utility of the Thermal-Pseudo Mechanical Model's Residual Stress Prediction Capability for the Development of Friction Stir Processing.	0
104	Experimental investigation on fabrication and characterisation of Mg-Al <sub>2</sub> O <sub>3</sub> surface composites. 1-18	0
103	Printing high-strength high-elongation aluminum alloy using commercial ER2319 welding wires through deformation-based additive manufacturing. <b>2023</b> , 868, 144773	0
102	Lightweight Design: Friction-Based Welding between Metal and Polymer.	0
101	Similar and dissimilar lap friction stir welding of titanium alloys: on the elimination of the hook defect.	0
100	A review paper of FSW on dissimilar materials using aluminum. <b>2023</b> ,	0
99	The precipitate evolution in friction stir welding of 2195-O Al <sub>2</sub> O <sub>3</sub> alloy. <b>2023</b> , 24, 1991-2006	0
98	Overcoming the strength-ductility trade-off in additive manufactured AlSi10Mg plates by friction stir welding at a low rotational speed. <b>2023</b> , 24, 1897-1909	0

- 97 Enabling macroscopic superlubricity in TaC/a-C nanocomposite film by atomic-level Au. **2023**, 228, 115329 ○
- 96 Electrochemical corrosion behavior of 6061 Al alloy under high rotating speed submerged friction stir processing. **2023**, 215, 111029 ○
- 95 Influence of Si and Ta mixed doping on the structure, mechanical and thermal properties of Ti Al N coatings. **2023**, 461, 129428 ○
- 94 Multi-phase modelling of heat and mass transfer during Ti/Al dissimilar friction stir welding process. **2023**, 94, 240-254 ○
- 93 Microstructural characteristics and mechanical properties of 7075 aluminum alloy foam sandwich panels fabricated via integrated forming and foaming. **2023**, 94, 133-145 ○
- 92 Welding and galvanic coupling effects on the electrochemical activity of dissimilar AA2050 and AA7050 aluminum alloys welded by Friction Stir Welding (FSW). **2023**, 449, 142196 ○
- 91 Microstructure and texture characterisation of friction stir welded CoCrNi and CoCrFeMnNi multi-principle element alloys. **2023**, 35, 105870 ○
- 90 The effects of friction stir welding on microstructure and formability of 7075-T6 sheet. **2023**, 18, 101041 ○
- 89 Favorable property integration in high entropy alloys via dissimilar friction stir welding: A case study using Al<sub>0.3</sub>CoCrFeNi and Fe<sub>38.5</sub>Co<sub>20</sub>Mn<sub>20</sub>Cr<sub>15</sub>Si<sub>5</sub>Cu<sub>1.5</sub> HEAs. **2023**, 35, 105822 ○
- 88 Solid-state welding of nitinol shape memory alloys: A review. **2023**, 35, 105728 ○
- 87 Microstructural, mechanical and tribological performance of a magnesium alloy AZ31B/Si<sub>3</sub>N<sub>4</sub>/eggshell surface composite produced by solid-state multi-pass friction stir processing. **2023**, 301, 127694 ○
- 86 Effect of friction stir processing on microstructural evolution and mechanical properties of nanosized SiC reinforced AA5083 nanocomposites developed by stir casting. **2023**, 35, 105912 ○
- 85 In-situ workpiece perception: A key to zero-defect manufacturing in Industry 4.0 compliant job shops. **2023**, 148, 103891 ○
- 84 Effects of tricalcium phosphate-titanium nanoparticles on mechanical performance after friction stir processing on titanium alloys for dental applications. **2023**, 293, 116492 ○
- 83 Microstructure and mechanical properties of dissimilar friction stir welded joints of laser powder bed fusion processed AlSi10Mg and conventional hot rolled 6061-T6 thin sheets. **2023**, 163, 109382 ○
- 82 Comparative Study of Plasma Spray and Friction Stir Processing on Wear Properties of Mg-Zn-Dy Alloy. ○
- 81 Achieving superior superplasticity in CoCrFeNiCu high entropy alloy via friction stir processing with an improved convex tool. **2023**, 145034 ○
- 80 Thermal stability behaviors of ultrafine-grained Cu-Cr-Zr alloy processed by friction stir processing and rolling methods. **2023**, 950, 169957 ○



- 79 Attributes of intergranular corrosion in AA6061-AA7075 double sided friction stir weld. **2023**, 298, 127429 ○
- 78 Graphene-reinforced metal matrix composites: fabrication, properties, and challenges. **2023**, 125, 2925-2965 ○
- 77 Towards development of sustainable metallic superhydrophobic materials. **2023**, 663, 131047 1
- 76 Experimental analysis and optimization of process parameters using response surface methodology of surface nanocomposites fabricated by friction stir processing. 239779142311514 ○
- 75 Enhancement of joint properties and reduction of intermetallics in FSW of highly dissimilar Al/Ti alloys. ○
- 74 Exploring the impact of rolling temperature on interface microstructure and mechanical properties of steelâ€”Bronze explosive welded bilayer composite sheets. ○
- 73 Nugget zone characterization of friction stir welded hypereutectic Al-Si alloy. **2023**, 5, 015032 ○
- 72 Multipass Friction Stir Processing of Laser-Powder Bed Fusion AlSi10Mg: Microstructure and Mechanical Properties. **2023**, 16, 1559 ○
- 71 Quality prediction of friction stir welded joint based on multiple regression: entropy generation analysis. **2023**, 125, 5163-5183 ○
- 70 Investigations on microstructure, thermo-mechanical and tribological behavior of graphene oxide reinforced AA7075 surface composites developed via friction stir processing. **2023**, 90, 139-150 2
- 69 Deciphering the interdependent impact of process parameters in friction stir welding - Part I: an overview of the challenges and way forward. 1-22 ○
- 68 Effect of Post-Weld Heat Treatments on Microstructure and Mechanical Properties of Friction Stir Welding Joints of AA2014 and AA7075. ○
- 67 High-Velocity Projectile Impact Behaviour of Friction Stir Welded AA7075 Thick Plates. **2023**, ○
- 66 Evaluation of Microstructure, Mechanical Properties, Wear Resistance and Corrosion Behaviour of Friction Stir-Processed AZ31B-H24 Magnesium Alloy. **2023**, 12, 34-48 ○
- 65 A review on reinforcement strategies of friction stir processing to fabricate metal matrix composites. **2023**, ○
- 64 Effect of Coarse Eutectic-Originated Particles on the Microstructure and Properties of the Friction Stir-Processed Al-Mg-Zr-Sc-Based Alloys. ○
- 63 Effect of Tool Rotation Direction on Mechanical Strength of Single Lap Friction Stir Welded Joints between AA5083 Aluminum Alloy and S355J0 Steel for Maritime Applications. **2023**, 13, 411 ○
- 62 Double-sided simultaneous joining of medium carbon steel by center drive linear friction welding. **2023**, 41, 71-78 ○

- 61 Effect of post-welding heat treatment on mechanical and microstructural properties of friction stir welded dissimilar magnesium alloys. **2023**, ○
- 60 Prediction of various defects and material flow behavior during dissimilar FSW of DH36 shipbuilding steel and marine grade AA5083 using FE-based CEL approach. **2023**, 31, 035004 ○
- 59 Microstructural, Corrosion, and Mechanical Characterization of Friction Stir Welded Al 6022-to-ZEK100 Mg Joints. **2023**, 4, 142-157 ○
- 58 Effects of Rotational Speed on the Microstructure and Mechanical Properties of 2198-T8 Al-Li Alloy Processed by Friction Spot Welding. **2023**, 16, 1807 ○
- 57 A Review on Aluminum Matrix Composites Synthesized by FSP. **2023**, 407, ○
- 56 FRICTION STIR WELDING: PROCESS AND APPLICATIONS. ○
- 55 Easy dismantling and separation of friction stir-welded steel and aluminum by foaming. **2023**, 126, 561-568 ○
- 54 Temperature Distribution within the Friction Stir Welding Tool. **2023**, 26, 33-38 ○
- 53 The microstructure and mechanical properties of single-pass and double-pass lap joint of Al 5754H-11 and Mg AZ31-O alloys by friction stir welding. **2023**, 23, 6023-6038 1
- 52 Effect of tool pin geometry and multi-pass intermittent friction stir processing on the surface properties of aerospace grade aluminium 7075 alloy. 095440892311589 ○
- 51 Fabricating Surface Composite by Friction Stir Brazing SiCp/A356 Composite Sheet onto Monolithic Al Plate in Air. ○
- 50 Novel Bioactive Magnesium-Hopeite composite by friction stir processing for orthopedic implant applications. **2023**, 237, 502-516 ○
- 49 Heat generation and steel fragment effects on friction stir welding of aluminum alloy with steel. 1-13 ○
- 48 Joining of Nylon Using Friction Stir Welding (FSW) Techniques. ○
- 47 Identification of a pseudo-ternary intermetallic compound in the stirred zone of friction-stir-welded 5083 aluminum alloy with 316L steel. **2023**, 58, 5516-5529 ○
- 46 Enhancement of microstructure and mechanical properties of similar and dissimilar aluminium alloy by friction stir welding/processing using nanoparticles: a review. 1-42 ○
- 45 Effect of ALCLAD layer on weld characteristics during dissimilar micro-friction stir welding (BSW) of aluminum alloy sheets. **2023**, ○
- 44 Mechanical performance of dissimilar friction stir welded lap-joint between aluminium alloy 6061 and 316 stainless steel. **2023**, 37, 101-110 ○

- 43 Room Temperature Strengthening and High-Temperature Superplasticity of Mg-Li-Al-Sr-Y Alloy Fabricated by Asymmetric Rolling and Friction Stir Processing. **2023**, 16, 2345 ○
- 42 A review on recent development in aluminium-copper friction stir welding. 095440892311582 ○
- 41 Microstructural Characterization, Mechanical Properties and Thermal Stability of Friction Surfaced Inconel 718 Coatings. ○
- 40 Dissimilar Joint Welding Through Friction Stir Techniques: Mechanical and Microstructural Properties of AA2198-T8 & AA2024-T3. ○
- 39 Microstructure, mechanical and corrosion behaviours in friction stir welding of dissimilar magnesium alloys. ○
- 38 Effect of Cooling-Assisted Friction Stir Processing on Corrosion Behavior of AA5083 Alloy. ○
- 37 Effect of Tool Pin Geometries on Weld Quality of Al/Cu Dissimilar Friction Stir Welding. ○
- 36 Friction Stir Welding of Non-Heat Treatable Al Alloys: Challenges and Improvements Opportunities. **2023**, 13, 576 ○
- 35 Influence of various tool shoulder design on hybrid surface composite of AA7075-T651/SiC/graphene through friction stir processing. 1-19 ○
- 34 Magnesium-based nanocomposites synthesized using friction stir processing: an experimental study. 1-18 ○
- 33 The Influence of the Tool Concave Shoulder Angle on Heat Generation in the Stir Friction Welding Process with AA6061-T651 Materials. 943, 55-61 ○
- 32 Influence of Tool Rotation and Surface Roughness on the Shear Strength of Nylon 6 - SS 304 Dissimilar Joint Resulted by Friction Lap Welding. 943, 47-53 ○
- 31 Influence of processing innovations on joint strength improvements in friction stir welded high strength copper alloys. **2023**, 872, 144983 ○
- 30 Effect of Post-weld Intercritical Annealing on the Microstructure and Tensile Properties of a Friction Stir-Welded DP600 Steel. ○
- 29 Manufacturing and characterisation of magnesium composites reinforced by nanoparticles: a review. 1-19 ○
- 28 Production of Al-Ti Composite by a Combination of Accumulative Roll Bonding and Friction Stir Processing. ○
- 27 Review of Parametric Strategies for Enhancing the Mechanical and Wear Properties of Friction Stir Processed Aluminium Alloys Composites. ○
- 26 Effect of Varying Volume Fraction of Reinforcement on the Microstructure, Hardness and Tribological Behaviour of Aluminium Metal Matrix Composites Developed Through FSP Technique. ○

- 25 Corrosion-fatigue behavior of welded aluminum alloy 2024-T3. **2023**, 173, 107675 ○
- 24 Friction Stir Welding of Aluminum in the Aerospace Industry: The Current Progress and State-of-the-Art Review. **2023**, 16, 2971 ○
- 23 Effect of tool rotation speed on microstructure and mechanical properties of underwater friction stir welding 6061 aluminium alloy. **2023**, ○
- 22 Synthesis and characterisation of magnesium-based nano-composite – A review. 095440892311677 ○
- 21 Semi-stationary shoulder bobbin-tool: A new approach in tailoring macrostructure and mechanical properties of bobbin-tool friction stir welds in magnesium alloy. **2023**, 117984 ○
- 20 Effect of different volume ratios of SiC and TiO<sub>2</sub> reinforcement particles on mono and hybrid surface composites of AA7075-T651 through friction stir processing. 1-20 ○
- 19 A review on developing high-performance ZE41 magnesium alloy by using bulk deformation and surface modification methods. **2023**, ○
- 18 Efficient depositing aluminum alloy using thick strips through severe deformation-based friction rolling additive manufacturing: processing, microstructure, and mechanical properties. **2023**, 24, 3788-3801 ○
- 17 Double-sided friction stir welding of Nitronic-40 stainless steel for application in tokamak devices. **2023**, 159, 170-183 ○
- 16 Feasibility of Orbital Friction Stir Welding on Clad Pipes of Api X65 Psl 2 Steel and Inconel 625. ○
- 15 X-ray quantification of second-phase precipitates in friction-stir welded 2519-T820 aluminum alloy. **2023**, 343, 134380 ○
- 14 A review of Mg alloys containing long-period stacking ordered (LPSO) structures with insight into the application of friction stir processing. **2023**, ○
- 13 A computational and experimental approach to understanding material flow behavior during additive friction stir deposition (AFSD). ○
- 12 The examination of microstructural and mechanical properties of friction stir welded XPF800 steel. 095440622311694 ○
- 11 Challenges Associated to Ultrasonic Techniques in Characterization of Friction Stir Weld Defects in 27 mm Thick Al 6061-O Plates. **2023**, 59, 40-53 ○
- 10 Fine-grained aluminium crossover alloy for high-temperature sheet forming. **2023**, 118952 ○
- 9 Effect of vertical and horizontal zinc interlayer on material flow, microstructure, and mechanical properties of dissimilar FSW of Al 7075 and Mg AZ31 alloys. ○
- 8 Metal Matrix Composite Developed with Marine Grades: A Review. 1085, 77-89 ○

- 7 Correlation between local mechanical properties and corresponding microstructures in a friction stir processed Monel alloy. **2023**, ○
- 6 Friction Extrusion: Solid-State Metal Synthesis and Recycling in Sustainable Manufacturing. ○
- 5 Microstructure, mechanical characteristics, and electrochemical behavior of the wide-area stir zone fabricated in Al5083 by friction stir processing with overlapping technique. 095440622311732 ○
- 4 Analysis of friction stir welds using numerical modelling approach: a comprehensive review. ○
- 3 Impact of multi-pass friction stir alloying on the characterization of Mg based bio-ceramic nano composites. **2023**, 959, 170477 ○
- 2 Surface metal-matrix composites based on AZ91 magnesium alloy via friction stir processing: A review. **2023**, 30, 1278-1296 ○
- 1 Abnormal Grain Growth and Strain Behavior of Friction Stir Welding Joint for 6061 Aluminum Alloy. ○