

Lakshminarayanan Ak

List of Publications by Year in descending order

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papers

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471371

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71
all docs

71
docs citations

71
times ranked

1163
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of welding processes on tensile properties of AA6061 aluminium alloy joints. International Journal of Advanced Manufacturing Technology, 2009, 40, 286-296.	1.5	237
2	Process parameters optimization for friction stir welding of RDE-40 aluminium alloy using Taguchi technique. Transactions of Nonferrous Metals Society of China, 2008, 18, 548-554.	1.7	193
3	Comparison of RSM with ANN in predicting tensile strength of friction stir welded AA7039 aluminium alloy joints. Transactions of Nonferrous Metals Society of China, 2009, 19, 9-18.	1.7	188
4	An assessment of microstructure, hardness, tensile and impact strength of friction stir welded ferritic stainless steel joints. Materials & Design, 2010, 31, 4592-4600.	5.1	128
5	Application of Response Surface Methodology to Prediction of Dilution in Plasma Transferred Arc Hardfacing of Stainless Steel on Carbon Steel. Journal of Iron and Steel Research International, 2009, 16, 44-53.	1.4	71
6	Assessment of fatigue life and crack growth resistance of friction stir welded AISI 409M ferritic stainless steel joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 143-153.	2.6	52
7	Effect of Autogenous Arc Welding Processes on Tensile and Impact Properties of Ferritic Stainless Steel Joints. Journal of Iron and Steel Research International, 2009, 16, 62-68.	1.4	51
8	Effect of welding processes on tensile and impact properties, hardness and microstructure of AISI 409M ferritic stainless joints fabricated by duplex stainless steel filler metal. Journal of Iron and Steel Research International, 2009, 16, 66-72.	1.4	48
9	Microstructure, Tensile and Impact Toughness Properties of Friction Stir Welded Mild Steel. Journal of Iron and Steel Research International, 2010, 17, 68-74.	1.4	45
10	Predicting the dilution of plasma transferred arc hardfacing of stellite on carbon steel using response surface methodology. Metals and Materials International, 2008, 14, 779-789.	1.8	41
11	Developing friction stir welding window for AA2219 aluminium alloy. Transactions of Nonferrous Metals Society of China, 2011, 21, 2339-2347.	1.7	41
12	Evaluation of Microstructure and Mechanical Properties of Laser Beam Welded AISI 409M Grade Ferritic Stainless Steel. Journal of Iron and Steel Research International, 2012, 19, 72-78.	1.4	38
13	Effect of weld metal properties on fatigue crack growth behaviour of gas tungsten arc welded AISI 409M grade ferritic stainless steel joints. International Journal of Pressure Vessels and Piping, 2009, 86, 517-524.	1.2	27
14	Understanding the Parameters Controlling Plasma Transferred Arc Hardfacing Using Response Surface Methodology. Materials and Manufacturing Processes, 2008, 23, 674-682.	2.7	26
15	Understanding the parameters controlling friction stir welding of AISI 409M ferritic stainless steel. Metals and Materials International, 2011, 17, 969-981.	1.8	26
16	Comparison of Electron Beam and Friction Stir Weldments of Modified 12Åwt% Ferritic Stainless Steel. Materials and Manufacturing Processes, 2011, 26, 868-877.	2.7	23
17	The mechanical properties of the GMAW, GTAW and FSW joints of the RDE-40 aluminium alloy. International Journal of Microstructure and Materials Properties, 2008, 3, 837.	0.1	18
18	Characteristics of Laser Beam and Friction Stir Welded AISI 409M Ferritic Stainless Steel Joints. Journal of Materials Engineering and Performance, 2012, 21, 530-539.	1.2	18

#	ARTICLE	IF	CITATIONS
19	Assessment of sensitization resistance of AISI 409M grade ferritic stainless steel joints using Modified Strauss test. <i>Materials & Design</i> , 2012, 39, 175-185.	5.1	18
20	Use of DL-EPR Test to Assess Sensitization Resistance of AISI 409M Grade Ferritic Stainless Steel Joints. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2293-2303.	1.2	17
21	Application of RSM and ANN to predict the tensile strength of Friction Stir Welded A319 cast aluminium alloy. <i>International Journal of Manufacturing Research</i> , 2009, 4, 306.	0.1	16
22	Microstructure and mechanical properties of electron beam-welded AISI 409M-grade ferritic stainless steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 55, 153-162.	1.5	16
23	Feasibility of surface-coated friction stir welding tools to join AISI 304 grade austenitic stainless steel. <i>Defence Technology</i> , 2014, 10, 360-370.	2.1	16
24	Sensitization resistance of friction stir welded AISI 409M grade ferritic stainless steel joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 59, 961-967.	1.5	15
25	Assessment of Stress Corrosion Cracking Resistance of Activated Tungsten Inert Gas-Welded Duplex Stainless Steel Joints. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 5825-5836.	1.2	14
26	Tensile and Impact Toughness Properties of Gas Tungsten Arc Welded and Friction Stir Welded Interstitial Free Steel Joints. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 82-89.	1.2	12
27	On the fatigue behaviour of electron beam and gas tungsten arc weldments of 409M grade ferritic stainless steel. <i>Materials & Design</i> , 2012, 35, 760-769.	5.1	12
28	Effect of welding processes on tensile, impact, hardness and microstructure of joints made of AISI 409M FSS base metal and AISI 308L ASS filler metals. <i>Ironmaking and Steelmaking</i> , 2009, 36, 75-80.	1.1	11
29	Role of welding processes on microstructure and mechanical properties of nuclear grade stainless steel joints. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 2335-2351.	0.7	10
30	Influences of welding processes on microstructure and mechanical properties of modified 12 wt % Cr ferritic stainless steel. <i>International Journal of Manufacturing Research</i> , 2012, 7, 331.	0.1	9
31	Process Parameters Optimisation for Friction Stir Welding of AISI 409M Grade Ferritic Stainless Steel. <i>Experimental Techniques</i> , 2013, 37, 59-73.	0.9	9
32	Fatigue Crack Growth Behavior of Gas Metal Arc Welded AISI 409 Grade Ferritic Stainless Steel Joints. <i>Journal of Materials Engineering and Performance</i> , 2009, 18, 917-924.	1.2	8
33	Effect of Autogenous Arc Welding Processes on Fatigue Crack Growth Behaviour of Ferritic Stainless Steel Joints. <i>ISIJ International</i> , 2008, 48, 489-495.	0.6	6
34	Thermal Performance Evaluation of Friction Stir Welded and Bolted Cold Plates with Al/Cu Interface. <i>Jom</i> , 2015, 67, 1032-1044.	0.9	6
35	Zone Wise Properties of Friction Stir Welded Copper “ Stainless Steel Joints Using Digital Image Correlation. <i>Applied Mechanics and Materials</i> , 0, 787, 485-489.	0.2	6
36	Effect of Welding Processes on Fatigue Behaviour of AISI 409M Grade Ferritic Stainless Steel Joints. <i>Advanced Materials Research</i> , 0, 794, 391-412.	0.3	5

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37	Impact of friction diffusion welding parameters on the properties of rare earth containing magnesium alloy tube-tube plate welds. <i>Journal of Alloys and Compounds</i> , 2017, 712, 355-364.	2.8	5
38	Evaluating stress corrosion cracking behaviour of high strength AA7075-T651 aluminium alloy. <i>Journal of the Mechanical Behavior of Materials</i> , 2017, 26, 105-112.	0.7	5
39	Microstructural characteristics of chitosan deposited az91 magnesium alloy. <i>Materials Today: Proceedings</i> , 2019, 16, 456-462.	0.9	5
40	Predicting the dilution of plasma transferred arc hardfacing of stellite on carbon steel using response surface methodology. <i>Metals and Materials International</i> , 2008, 14, 779-789.	1.8	5
41	An insight into the stress corrosion cracking resistance of friction stir processed and micro arc oxidation coated ZE41 grade magnesium alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 1255-1273.	1.1	5
42	Effect of welding processes on fatigue crack growth behaviour of AISI 409M ferritic stainless steel joints fabricated using duplex stainless steel fillers. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2009, 32, 656-664.	1.7	4
43	Use of Friction Extrusion to Fabricate Magnesium Alloy Wires with Rare Earths from Machined Chips. <i>Materials Science Forum</i> , 0, 979, 119-123.	0.3	4
44	Understanding the Effect of Tool Rotational Speed on Microstructure and Mechanical Properties of Friction Stir Processed ZE41 Grade Magnesium Alloy. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 427-435.	0.3	3
45	Fabrication and Numerical Analysis of Friction Stir Back Extruded Lightweight Magnesium Alloy Heat Pipes. <i>Materials Science Forum</i> , 2020, 979, 129-134.	0.3	3
46	Decisive influence of critical process parameters on the microstructure and tensile properties of friction stir back extruded magnesium alloy tubes. <i>Journal of Manufacturing Processes</i> , 2022, 73, 207-219.	2.8	3
47	Harnessing friction stir back extrusion process to fabricate microtubes from as-cast Mg ₄ Zn _{0.7} Zr _{1.6} RE magnesium alloy. <i>Surface Topography: Metrology and Properties</i> , 2022, 10, 015042.	0.9	3
48	Numerical Simulation on Effect of Impact Velocity and Target Thickness in Magnesium Alloy AZ31B. <i>Applied Mechanics and Materials</i> , 0, 787, 291-295.	0.2	2
49	Corrosion Resistance of Friction Stir Processed AZ91D Magnesium Alloy under a Salt Fog Environment. <i>Applied Mechanics and Materials</i> , 0, 787, 426-430.	0.2	2
50	Assessment of Microstructure and Wear Resistance of Friction Stir Processed Cast Mg-Al-Zn Magnesium Alloy. <i>Applied Mechanics and Materials</i> , 0, 787, 442-447.	0.2	2
51	Dissimilar and Similar Laser Beam and GTA Welding of Nuclear Fuel Pin Cladding Tube to End Plug Joint. <i>Advanced Engineering Forum</i> , 2017, 24, 40-47.	0.3	2
52	On the Microstructure and Erosion Corrosion Behavior of Laser Processed Nickel Aluminium Bronze. <i>Materials Science Forum</i> , 0, 979, 157-161.	0.3	2
53	Decisive impact of Filler-free joining processes on the Microstructural evolution, tensile and impact properties of 9Cr-1Mo-V-Nb to 316L(N) dissimilar joints. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 2408-2427.	1.1	2
54	Role of Overlap Ratio on the Microstructure of Friction Stir Multiseam Cladded Copper-Stainless Steel Lap Joints. <i>Materials Science Forum</i> , 0, 979, 102-106.	0.3	2

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55	Stress Corrosion Cracking Susceptibility of 316LN Grade Stainless Steel Weld Joint in Boiling Magnesium Chloride Hexahydrate Environment. <i>Metals and Materials International</i> , 2022, 28, 2778-2797.	1.8	2
56	Fatigue Crack Growth Behavior of AISI 409M Grade Ferritic Stainless Steel Welded Joints Using Austenitic, Ferritic and Duplex Stainless Steel Electrodes. <i>ISIJ International</i> , 2008, 48, 1640-1646.	0.6	1
57	Comparison of Friction Stir and Gas Tungsten Arc Weldments of Modified 12 wt.% Cr Ferritic Stainless Steel. <i>Steel Research International</i> , 2010, 81, 1023-1033.	1.0	1
58	Improving Wear Resistance of AISI 316LN Austenitic Stainless Steel Using Friction Stir Processing. <i>Applied Mechanics and Materials</i> , 0, 787, 421-425.	0.2	1
59	Understanding the Parameters Controlling the Resistance Spot Welding of DP980 Steel. <i>Applied Mechanics and Materials</i> , 0, 787, 411-415.	0.2	1
60	Optimum Welding Conditions for Dissimilar Spot Friction Joining of Aluminium - Interstitial Free Steel Joints. <i>Applied Mechanics and Materials</i> , 0, 787, 396-400.	0.2	1
61	Role of Induction Preheating on Tool Wear and Properties of Friction Stir Welded 409M Stainless Steel Joints. <i>Applied Mechanics and Materials</i> , 0, 787, 401-405.	0.2	1
62	Thermal Performance Evaluation of Friction Stir Welded Flat Plate Heat Sink Using CFD Analysis. <i>Applied Mechanics and Materials</i> , 0, 787, 505-509.	0.2	1
63	Probing the stress corrosion cracking resistance of laser beam welded AISI 316LN austenitic stainless steel. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, , 095440622096563.	1.1	1
64	Comparative Study of Friction Stir Welding and Underwater Friction Stir Welding on Magnesium ZE41 Alloy. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 755-766.	0.3	1
65	Microstructure and Tensile Properties of Friction Stir and Gas Tungsten Arc Welded AZ91D Magnesium Alloy Joints. <i>Applied Mechanics and Materials</i> , 0, 787, 470-474.	0.2	0
66	Wear Mitigation in Cast Magnesium Alloy through Flyash Reinforced Friction Stir Surface Compositing. <i>Applied Mechanics and Materials</i> , 0, 787, 627-631.	0.2	0
67	On the Local Constitutive Behavior of Friction Stir Welded AISI 304 Stainless Steel Joints. <i>Materials Science Forum</i> , 2020, 979, 107-113.	0.3	0
68	Analysis of Tensile Deformation Behavior in Friction Stir Welded P91-316LN Dissimilar Joints Using Infrared Thermography. <i>Materials Science Forum</i> , 2020, 979, 114-118.	0.3	0
69	Influence of Friction Stir Welding Variants on Crashworthiness of Friction Stir Welded Aluminium Top Hat Sections. <i>Materials Science Forum</i> , 2020, 979, 97-101.	0.3	0
70	Study of Infrared Thermography on Tensile Behavior of Laser Beam Welded 316LN Austenitic Stainless Steel. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 779-787.	0.3	0
71	Correlation between Tensile Deformation Behavior and Microstructural Morphology of Nuclear Grade Austenitic Stainless Steel Weld Joints using Infrared Thermography Technique. <i>Przeł...d Spawalnictwa</i> , 2020, 92, 7-15.	0.5	0