

Mahadzir Ishak

List of Publications by Year in descending order

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89
papers

1,027
citations

471477

17
h-index

501174

28
g-index

92
all docs

92
docs citations

92
times ranked

874
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of weld penetration condition through synchrosqueezed-wavelet analysis of sound signal acquired from pulse mode laser welding process. <i>Journal of Materials Processing Technology</i> , 2020, 279, 116559.	6.3	26
2	An experimental investigation in forced convective heat transfer and friction factor of air flow over aligned round and flattened tube banks. <i>Heat Transfer - Asian Research</i> , 2019, 48, 2350-2369.	2.8	3
3	A Review on Mechanical Properties of SnAgCu/Cu Joint Using Laser Soldering. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 97-107.	0.4	2
4	Mechanical and tribological performance of a hybrid MMC coating deposited on Al-17Si piston alloy by laser composite surfacing technique. <i>RSC Advances</i> , 2018, 8, 6858-6869.	3.6	7
5	Characterization of heat-treated gas metal arc-welded boron steel sheets. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 827-834.	3.0	6
6	Scratch adhesion and wear failure characteristics of PVD multilayer CrTi/CrTiN thin film ceramic coating deposited on AA7075-T6 aerospace alloy. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 625-641.	2.6	23
7	Double fillet lap of laser welding of thin sheet AZ31B Mg alloy. <i>Journal of Physics: Conference Series</i> , 2018, 1027, 012003.	0.4	2
8	Effect of pin tool flute radius on the material flow and tensile properties of dissimilar friction stir welded aluminum alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 2747-2758.	3.0	27
9	Microstructure, mechanical, and failure characteristics of laser-microwelded AZ31B Mg alloy optimized by response surface methodology. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 985-1001.	3.0	12
10	Effect of backing material and clamping system on the tensile strength of dissimilar AA7075-AA2024 friction stir welds. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 3991-4007.	3.0	20
11	Effect of fiber laser parameters on laser welded AZ31B Magnesium alloys. <i>MATEC Web of Conferences</i> , 2017, 90, 01032.	0.2	1
12	The effect of fiber laser parameters on microhardness and microstructure of duplex stainless steel. <i>MATEC Web of Conferences</i> , 2017, 90, 01024.	0.2	5
13	Finite element modelling and updating of friction stir welding (FSW) joint for vibration analysis. <i>MATEC Web of Conferences</i> , 2017, 90, 01021.	0.2	12
14	The Effect of Tool Pin Shape of Friction Stir Welding (FSW) on Polypropylene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 238, 012003.	0.6	3
15	Study of Dissimilar Welding AA6061 Aluminium Alloy and AZ31B Magnesium Alloy with ER5356 Filler Using Friction Stir Welding. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 238, 012002.	0.6	1
16	Effect of pin tool design on the material flow of dissimilar AA7075-AA6061 friction stir welds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 257, 012022.	0.6	6
17	Influence of machine variables and tool profile on the tensile strength of dissimilar AA7075-AA6061 friction stir welds. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 2605-2615.	3.0	27
18	Porosity detection by analyzing arc sound signal acquired during the welding process of gas pipeline steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 3661-3670.	3.0	14

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19	Dissimilar welding of A7075-T651 and AZ31B alloys by gas metal arc plug welding method. International Journal of Advanced Manufacturing Technology, 2017, 88, 2773-2783.	3.0	34
20	A review on improving thermal-hydraulic performance of fin-and-tube heat exchangers. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012049.	0.6	6
21	Monitoring the quality of welding based on welding current and ste analysis. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012043.	0.6	10
22	Feasibility of using acoustic method in monitoring the penetration status during the Pulse Mode Laser Welding process. IOP Conference Series: Materials Science and Engineering, 2017, 238, 012006.	0.6	7
23	Effects of Heat Input on Microstructure, Corrosion and Mechanical Characteristics of Welded Austenitic and Duplex Stainless Steels: A Review. Metals, 2017, 7, 39.	2.3	88
24	Experimental Investigation of Thermal Fatigue Die Casting Dies by Using Response Surface Modelling. Metals, 2017, 7, 191.	2.3	6
25	Thermally-Induced Crack Evaluation in H13 Tool Steel. Metals, 2017, 7, 475.	2.3	18
26	Fiber Laser Welding of Dissimilar 2205/304 Stainless Steel Plates. Metals, 2017, 7, 546.	2.3	22
27	Weld bead profile of laser welding dissimilar joints stainless steel. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012072.	0.6	8
28	Effect of Copper-based Fillers Composition On Spreading and Wetting Behaviour. IOP Conference Series: Materials Science and Engineering, 2017, 238, 012020.	0.6	6
29	Investigation of preheating method on joint strength of aluminium-stainless steel dissimilar welding using metal inert gas (MIG) process. IOP Conference Series: Materials Science and Engineering, 2017, 238, 012019.	0.6	4
30	Effect of shoulder to pin ratio on magnesium alloy Friction Stir Welding. IOP Conference Series: Materials Science and Engineering, 2017, 238, 012008.	0.6	9
31	Hardness variation of welded boron steel using continuous wave (CW) and pulse wave (PW) mode of fiber laser. IOP Conference Series: Materials Science and Engineering, 2017, 238, 012007.	0.6	0
32	Investigation on the Effect of Pulsed Energy on Strength of Fillet Lap Laser Welded AZ31B Magnesium Alloys. IOP Conference Series: Materials Science and Engineering, 2017, 238, 012009.	0.6	1
33	Optimization on laser soldering parameters onto lead-free solder joint. IOP Conference Series: Materials Science and Engineering, 2017, 238, 012011.	0.6	6
34	Investigation of thermal-hydraulic performance in flat tube heat exchangers at various tube inclination angles. International Journal of Automotive and Mechanical Engineering, 2017, 14, 4542-4560.	0.9	1
35	The effect of pulse welding parameters on weld geometry of boron steel using low power fibre laser. Journal of Mechanical Engineering and Sciences, 2017, 11, 2895-2905.	0.6	6
36	DYNAMIC ANALYSIS OF FRICTION STIR WELDING JOINTS IN DISSIMILAR MATERIAL PLATE STRUCTURE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	6

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37	Microstructure and Mechanical Properties of Austenitic Compacted Cast Iron with Additive Manganese. MATEC Web of Conferences, 2016, 74, 00009.	0.2	3
38	Thermal Fatigue of Die-Casting Dies: An Overview. MATEC Web of Conferences, 2016, 74, 00032.	0.2	13
39	Investigation on Microstructure of Heat Treated High Manganese Austenitic Cast Iron. MATEC Web of Conferences, 2016, 78, 01079.	0.2	0
40	Effect on Mechanical Properties of Heat Treated High Manganese Austenitic Cast Iron. MATEC Web of Conferences, 2016, 78, 01081.	0.2	1
41	Effect of Immersion Coating Deposition Time on Solder Joint Properties. Advanced Materials Research, 2016, 1133, 361-365.	0.3	0
42	Prediction and Optimization of Process Parameters on Metal Inert Gas of Dissimilar Aluminium Alloy AA6061-T6 and AA7075-T6 Using Response Surface Method Analysis. Key Engineering Materials, 2016, 701, 143-147.	0.4	1
43	Intermetallic growth and shear strength of SAC305/EN-Boron. Soldering and Surface Mount Technology, 2016, 28, 141-148.	1.5	2
44	Lap joint dissimilar welding of aluminium AA6061 and galvanized iron using TIG welding. Journal of Mechanical Engineering and Sciences, 2016, 10, 1817-1826.	0.6	9
45	Mechanical and microstructural characterization of single and double pass Aluminum AA6061 friction stir weld joints. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012016.	0.6	5
46	The hardness effect of friction stir welding by MILKO 37 milling machine. AIP Conference Proceedings, 2015, , .	0.4	0
47	The microstructure of aluminum A5083 butt joint by friction stir welding. AIP Conference Proceedings, 2015, , .	0.4	0
48	FEASIBILITY STUDY ON JOINING DISSIMILAR ALUMINUM ALLOYS AA6061 AND AA7075 BY TUNGSTEN INERT GAS (TIG). Jurnal Teknologi (Sciences and Engineering), 2015, 75, .	0.4	14
49	Optimization of Multi-layer Welding of Titanium Alloy. Research Journal of Applied Sciences, Engineering and Technology, 2015, 10, 1029-1034.	0.1	2
50	Parametric studies on tensile strength in joining AA6061- T6 and AA7075-T6 by gas metal arc welding process. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012042.	0.6	2
51	Experimental Study on Heat Transfer and Friction Factor in Laminar Forced Convection over Flat Tube in Channel Flow. Procedia Engineering, 2015, 105, 46-55.	1.2	11
52	An overview on thermal and fluid flow characteristics in a plain plate finned and un-finned tube banks heat exchanger. Renewable and Sustainable Energy Reviews, 2015, 43, 363-380.	16.4	77
53	EFFECT OF FILLER ON WELD METAL STRUCTURE OF AA6061 ALUMINUM ALLOY BY TUNGSTEN INERT GAS WELDING. International Journal of Automotive and Mechanical Engineering, 2015, 11, 2438-2446.	0.9	15
54	MECHANICAL STRENGTH OF DISSIMILAR AA7075 AND AA6061 ALUMINUM ALLOYS USING FRICTION STIR WELDING. International Journal of Automotive and Mechanical Engineering, 2015, 11, 2713-2721.	0.9	12

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55	Effect of tube spacing, fin density and Reynolds number on overall heat transfer rate for in-line configuration. International Journal of Automotive and Mechanical Engineering, 2015, 12, 3065-3075.	0.9	3
56	A simplified design of clamping system and fixtures for friction stir welding of aluminium alloys. Journal of Mechanical Engineering and Sciences, 2015, 9, 1628-1639.	0.6	15
57	GMA Spot Welding of A7075-T651/AZ31B Dissimilar Alloys Using Stainless Steel Filler. Materials and Manufacturing Processes, 2014, 29, 980-987.	4.7	2
58	Microstructure evolution at the solder joint during isothermal aging. , 2014, , .		0
59	Performance predictions of laminar heat transfer and pressure drop in an in-line flat tube bundle using an adaptive neuro-fuzzy inference system (ANFIS) model. International Communications in Heat and Mass Transfer, 2014, 50, 85-97.	5.6	33
60	Review of Research Progress on Aluminum-Steel Dissimilar Welding. Materials and Manufacturing Processes, 2014, 29, 928-933.	4.7	100
61	Weldability of A7075-T651 and AZ31B dissimilar alloys by MIG welding method based on welding appearances. Journal of Physics: Conference Series, 2014, 495, 012022.	0.4	2
62	An Experimental Study of Air Flow and Heat Transfer over in-line Flat Tube Bank. International Journal of Automotive and Mechanical Engineering, 2014, 9, 1487-1500.	0.9	19
63	Study of Resistance Spot Welding Between AISI 301 Stainless Steel and AISI 1020 Carbon Steel Dissimilar Alloys. Journal of Mechanical Engineering and Sciences, 2014, 6, 793-806.	0.6	12
64	Synthesis and Characterization of Nano Ti-50%Al by Mechanical Alloying. Advanced Structured Materials, 2014, , 329-343.	0.5	0
65	HEAT TRANSFER AND PRESSURE DROP PREDICTION IN AN IN-LINE FLAT TUBE BUNDLE BY RADIAL BASIS FUNCTION NETWORK. International Journal of Automotive and Mechanical Engineering, 2014, 10, 2003-2015.	0.9	4
66	Experimental Investigation on Heat Transfer and Pressure Drop Characteristics of Air Flow over A Staggered Flat Tube Bank in Crossflow. International Journal of Automotive and Mechanical Engineering, 2013, 7, 900-911.	0.9	25
67	Investigation of Aluminum-Stainless Steel Dissimilar Weld Quality using Different Filler Metals. International Journal of Automotive and Mechanical Engineering, 2013, 8, 1121-1131.	0.9	37
68	Laminar Forced Convection Heat Transfer over Staggered Circular Tube Banks: A CFD Approach. Journal of Mechanical Engineering and Sciences, 2013, 4, 418-430.	0.6	21
69	A Numerical Study Laminar Forced Convection of Air for In-line Bundle of Cylinders Crossflow. Asian Journal of Scientific Research, 2013, 6, 217-226.	0.1	14
70	Characteristics of Welded Thin Sheet AZ31 Magnesium Alloy. Advanced Structured Materials, 2013, , 147-160.	0.5	0
71	Effects of heat input on mechanical properties of metal inert gas welded 1.6 mm thick galvanized steel sheet. IOP Conference Series: Materials Science and Engineering, 2012, 36, 012011.	0.6	3
72	CO2Laser Cutting of Glass Fiber Reinforce Polymer Composite. IOP Conference Series: Materials Science and Engineering, 2012, 36, 012033.	0.6	6

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73	The characteristics of unidirectional solidified Ni-Al-Mo alloys. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012, 43, 416-420.	0.9	3
74	The characteristics of laser welded magnesium alloy using silver nanoparticles as insert material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 536, 143-151.	5.6	9
75	Analysis of Laminar Forced Convection of Air for Crossflow over Two Staggered Flat Tubes. <i>International Journal of Automotive and Mechanical Engineering</i> , 2012, 6, 755-767.	0.9	23
76	A Numerical Study of Forced Convection Heat Transfer over a Series of Flat Tubes between Parallel Plates. <i>Journal of Mechanical Engineering and Sciences</i> , 2012, 3, 271-280.	0.6	26
77	Prediction of Surface Roughness of Ti-6Al-4V in Electrical Discharge Machining: A Regression Model. <i>Journal of Mechanical Engineering and Sciences</i> , 2011, 1, 16-24.	0.6	39
78	Lap Fillet Laser Welding of AZ31B Thin Sheet Magnesium Alloy using Silver Nanoparticles. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 51-62.	0.5	4
79	Lap Fillet Welding of Thin Sheet AZ31 Magnesium Alloy with Pulsed Nd:YAG Laser. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2009, 3, 1045-1056.	0.5	12
80	211 Nd: YAG laser lap fillet welding of thin sheet AZ31 magnesium alloy using silver NanoPaste ^[â€”!R] . <i>The Proceedings of Ibaraki District Conference</i> , 2009, 2009, 53-54.	0.0	0
81	107 Lap fillet welding of thin sheet AZ31 magnesium alloy with Nd:YAG laser. <i>The Proceedings of Ibaraki District Conference</i> , 2008, 2008, 13-14.	0.0	0
82	Laser Welding of Thin Sheet Magnesium Alloys. , 0, , .		0
83	On Generation of Micro-Feature on Silicon with an Industrial Laser. <i>Materials Science Forum</i> , 0, 773-774, 661-669.	0.3	0
84	Effect of Cooling and Isothermal Aging on Microstructure Using Electroless Nickel (Boron) Plating. <i>Applied Mechanics and Materials</i> , 0, 695, 352-356.	0.2	0
85	An Experimental Study of Heat Transfer and Friction Factor Characteristics of Finned Flat Tube Banks with In-Line Tubes Configurations. <i>Applied Mechanics and Materials</i> , 0, 564, 197-203.	0.2	5
86	Analysis of an Air Borne Acoustic Signatures from Welding Process Using Empirical Mode Decomposition. <i>Advanced Materials Research</i> , 0, 889-890, 770-775.	0.3	0
87	Modelling and Optimizing of Jointâ€™s Fracture Toughness between A7075-T651 and AZ31B Dissimilar Alloys Welded by GMA Spot Welding Method. <i>Applied Mechanics and Materials</i> , 0, 663, 281-286.	0.2	1
88	Influence of Second Reflow on the Intermetallic Compound Growth with Different Surface Finish. <i>Key Engineering Materials</i> , 0, 701, 127-131.	0.4	3
89	Effect of Taper Pin Ratio on AA7075 Aluminium Alloy Friction Stir Welding. <i>Key Engineering Materials</i> , 0, 701, 154-158.	0.4	0