Dawei Zhao

List of Publications by Year
in descending order

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27 papers	552 citations	687220 13 h-index	677027 22 g-index
28 all docs	28 docs citations	28 times ranked	362 citing authors

#	Article	IF	Citations
1	Mechanical performance and microstructural characteristic of gas metal arc welded A606 weathering steel joints. International Journal of Advanced Manufacturing Technology, 2022, 119, 1921-1932.	1.5	9
2	Multi-objective optimization of the resistance spot welding process using a hybrid approach. Journal of Intelligent Manufacturing, 2021, 32, 2219-2234.	4.4	13
3	Welding quality evaluation of resistance spot welding based on a hybrid approach. Journal of Intelligent Manufacturing, 2021, 32, 1819-1832.	4.4	15
4	Research on the correlation between dynamic resistance and quality estimation of resistance spot welding. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108299.	2.5	12
5	The use of TOPSIS-based-desirability function approach to optimize the balances among mechanical performances, energy consumption, and production efficiency of the arc welding process. International Journal of Advanced Manufacturing Technology, 2021, 112, 3545-3559.	1.5	11
6	Statistical modeling and optimization of the resistance welding process with simultaneous expulsion magnitude consideration for high-strength low alloy steel. International Journal of Advanced Manufacturing Technology, 2021, 113, 1173-1189.	1.5	6
7	Modeling and optimization of weld bead profile with varied welding stages for weathering steel A606. International Journal of Advanced Manufacturing Technology, 2021, 116, 3179-3192.	1.5	6
8	Performances of regression model and artificial neural network in monitoring welding quality based on power signal. Journal of Materials Research and Technology, 2020, 9, 1231-1240.	2.6	36
9	Performances of dimension reduction techniques for welding quality prediction based on the dynamic resistance signal. Journal of Manufacturing Processes, 2020, 58, 335-343.	2.8	10
10	Modeling and Experimental Research on Resistance Spot Welded Joints for Dual-Phase Steel. Materials, 2019, 12, 1108.	1.3	14
11	Correlating variations in the dynamic power signature to nugget diameter in resistance spot welding using Kriging model. Measurement: Journal of the International Measurement Confederation, 2019, 135, 6-12.	2.5	14
12	Quality Estimation in Small Scale Resistance Spot Welding of Titanium Alloy Based on Dynamic Electrical Signals. ISIJ International, 2018, 58, 721-726.	0.6	6
13	A comparison of two types of neural network for weld quality prediction in small scale resistance spot welding. Mechanical Systems and Signal Processing, 2017, 93, 634-644.	4.4	36
14	An investigation into weld defects of spot-welded dual-phase steel. International Journal of Advanced Manufacturing Technology, 2017, 92, 3043-3050.	1.5	14
15	Weld quality monitoring research in small scale resistance spot welding by dynamic resistance and neural network. Measurement: Journal of the International Measurement Confederation, 2017, 99, 120-127.	2.5	47
16	Quality evaluation in small-scale resistance spot welding by electrode voltage recognition. Science and Technology of Welding and Joining, 2016, 21, 358-365.	1.5	24
17	Modeling and process analysis of resistance spot welded DP600 joints based on regression analysis. Materials and Design, 2016, 110, 676-684.	3.3	42
18	Grey relational and neural network approach for multi-objective optimization in small scale resistance spot welding of titanium alloy. Journal of Mechanical Science and Technology, 2016, 30, 2675-2682.	0.7	16

#	Article	IF	Citations
19	Quality monitoring based on dynamic resistance and principal component analysis in small scale resistance spot welding process. International Journal of Advanced Manufacturing Technology, 2016, 86, 3443-3451.	1.5	29
20	Multiple Quality Characteristics Prediction and Parameter Optimization in Small-Scale Resistance Spot Welding. Arabian Journal for Science and Engineering, 2016, 41, 2011-2021.	1.1	8
21	Multi-response optimization in small scale resistance spot welding of titanium alloy by principal component analysis and genetic algorithm. International Journal of Advanced Manufacturing Technology, 2016, 83, 545-559.	1.5	18
22	Multi-objective optimal design of small scale resistance spot welding process with principal component analysis and response surface methodology. Journal of Intelligent Manufacturing, 2014, 25, 1335-1348.	4.4	39
23	Process analysis and optimization for failure energy of spot welded titanium alloy. Materials & Design, 2014, 60, 479-489.	5.1	25
24	Real time monitoring weld quality of small scale resistance spot welding for titanium alloy. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1957-1963.	2.5	18
25	Effects of electrode force on microstructure and mechanical behavior of the resistance spot welded DP600 joint. Materials & Design, 2013, 50, 72-77.	5.1	46
26	An effective quality assessment method for small scale resistance spot welding based on process parameters. NDT and E International, 2013, 55, 36-41.	1.7	26
27	Quality Monitoring Research of Small Scale Resistance Spot Welding Based on Voltage Signal. ISIJ International, 2013, 53, 240-244.	0.6	12