

# Huabin Chen

## List of Publications by Year in descending order

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45  
papers

1,445  
citations

279798

23  
h-index

345221

36  
g-index

48  
all docs

48  
docs citations

48  
times ranked

724  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quality analysis of CMT lap welding based on welding electronic parameters and welding sound. <i>Journal of Manufacturing Processes</i> , 2022, 74, 1-13.	5.9	12
2	Influences of weaving parameters on dynamic characteristics and stability control of the droplet transfer in arc-weaving P-GMAW process. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 5233-5250.	3.0	6
3	Progress and perspectives of in-situ optical monitoring in laser beam welding: Sensing, characterization and modeling. <i>Journal of Manufacturing Processes</i> , 2022, 75, 767-791.	5.9	26
4	Isotropic etching polishing of belt ground Inconel 718 to improve surface strengthening and quality. <i>Surface and Coatings Technology</i> , 2022, 436, 128292.	4.8	6
5	Prediction of welding quality characteristics during pulsed GTAW process of aluminum alloy by multisensory fusion and hybrid network model. <i>Journal of Manufacturing Processes</i> , 2021, 68, 209-224.	5.9	19
6	A novel energy partition model for belt grinding of Inconel 718. <i>Journal of Manufacturing Processes</i> , 2021, 64, 1296-1306.	5.9	11
7	A novel feature-guided trajectory generation method based on point cloud for robotic grinding of freeform welds. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 1763-1781.	3.0	17
8	A novel material removal rate model based on single grain force for robotic belt grinding. <i>Journal of Manufacturing Processes</i> , 2021, 68, 1-12.	5.9	31
9	A study of dynamic energy partition in belt grinding based on grinding effects and temperature dependent mechanical properties. <i>Journal of Materials Processing Technology</i> , 2021, 294, 117112.	6.3	19
10	Visual-Acoustic Penetration Recognition in Variable Polarity Plasma Arc Welding Process Using Hybrid Deep Learning Approach. <i>IEEE Access</i> , 2020, 8, 120417-120428.	4.2	29
11	Arc sound model for pulsed GTAW and recognition of different penetration states. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 3175-3191.	3.0	21
12	A new method to achieve dynamic heat input monitoring in robotic belt grinding of Inconel 718. <i>Journal of Manufacturing Processes</i> , 2020, 57, 575-588.	5.9	16
13	In situ studies of full-field residual stress mapping of SS304 stainless steel welds using DIC. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 45-55.	3.0	2
14	Point cloud 3D parent surface reconstruction and weld seam feature extraction for robotic grinding path planning. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 827-841.	3.0	33
15	A novel material removal prediction method based on acoustic sensing and ensemble XGBoost learning algorithm for robotic belt grinding of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 217-232.	3.0	50
16	Weld penetration in situ prediction from keyhole dynamic behavior under time-varying VPPAW pools via the OS-ELM model. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 3929-3941.	3.0	15
17	Cracking mechanism and susceptibility of laser melting deposited Inconel 738 superalloy. <i>Materials and Design</i> , 2019, 183, 108105.	7.0	113
18	Spectral diagnosis and defects prediction based on ELM during the GTAW of Al alloys. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 136, 405-414.	5.0	22

#	ARTICLE	IF	CITATIONS
19	Online Monitoring of Variable Polarity TIG Welding Penetration State Based on Fusion of Welding Characteristic Parameters and SVM. Transactions on Intelligent Welding Manufacturing, 2019, , 87-104.	0.3	6
20	Prediction of weld bead geometry of MAG welding based on XGBoost algorithm. International Journal of Advanced Manufacturing Technology, 2019, 101, 2283-2295.	3.0	31
21	Online Monitoring and Model-Free Adaptive Control of Weld Penetration in VPPAW Based on Extreme Learning Machine. IEEE Transactions on Industrial Informatics, 2019, 15, 2732-2740.	11.3	68
22	Vision-based deviation extraction for three-dimensional control in robotic welding with steel sheet. International Journal of Advanced Manufacturing Technology, 2018, 95, 4449-4458.	3.0	11
23	Porosity detection in pulsed GTA welding of 5A06 Al alloy through spectral analysis. Journal of Materials Processing Technology, 2018, 259, 332-340.	6.3	29
24	A novel sound-based belt condition monitoring method for robotic grinding using optimally pruned extreme learning machine. Journal of Materials Processing Technology, 2018, 260, 9-19.	6.3	55
25	Acoustic signal-based tool condition monitoring in belt grinding of nickel-based superalloys using RF classifier and MLR algorithm. International Journal of Advanced Manufacturing Technology, 2018, 98, 859-872.	3.0	25
26	VPPAW penetration monitoring based on fusion of visual and acoustic signals using t-SNE and DBN model. Materials and Design, 2017, 123, 1-14.	7.0	52
27	Investigation of porosity in pulsed GTAW of aluminum alloys based on spectral and X-ray image analyses. Journal of Materials Processing Technology, 2017, 243, 365-373.	6.3	26
28	EMD-based pulsed TIG welding process porosity defect detection and defect diagnosis using GA-SVM. Journal of Materials Processing Technology, 2017, 239, 92-102.	6.3	102
29	Monitoring of weld joint penetration during variable polarity plasma arc welding based on the keyhole characteristics and PSO-ANFIS. Journal of Materials Processing Technology, 2017, 239, 113-124.	6.3	52
30	Weld penetration identification for VPPAW based on keyhole features and extreme learning machine. , 2016, , .		5
31	A prediction model for keyhole geometry and acoustic signatures during variable polarity plasma arc welding based on extreme learning machine. Sensor Review, 2016, 36, 257-266.	1.8	24
32	Mixed logic dynamic model for the hybrid characteristics of the dual robotic welding process and system. , 2016, , .		1
33	Parameter Self-Optimizing Clustering for Autonomous Extraction of the Weld Seam Based on Orientation Saliency in Robotic MAG Welding. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 219-237.	3.4	12
34	Penetration state recognition based on the double-sound-sources characteristic of VPPAW and hidden Markov Model. Journal of Materials Processing Technology, 2016, 234, 33-44.	6.3	43
35	Multisensor-based real-time quality monitoring by means of feature extraction, selection and modeling for Al alloy in arc welding. Mechanical Systems and Signal Processing, 2015, 60-61, 151-165.	8.0	65
36	Microstructure and mechanical properties of HSLA thick plates welded by novel double-sided gas metal arc welding. International Journal of Advanced Manufacturing Technology, 2015, 78, 457-464.	3.0	17

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37	Effect of weave frequency and amplitude on temperature field in weaving welding process. International Journal of Advanced Manufacturing Technology, 2014, 75, 803-813.	3.0	44
38	Online welding quality monitoring based on feature extraction of arc voltage signal. International Journal of Advanced Manufacturing Technology, 2014, 70, 1661-1671.	3.0	52
39	Real-time control of welding penetration during robotic GTAW dynamical process by audio sensing of arc length. International Journal of Advanced Manufacturing Technology, 2014, 74, 235-249.	3.0	75
40	The realization of no back chipping for thick plate welding. International Journal of Advanced Manufacturing Technology, 2014, 74, 79-88.	3.0	17
41	The acquisition and processing of real-time information for height tracking of robotic GTAW process by arc sensor. International Journal of Advanced Manufacturing Technology, 2013, 65, 1031-1043.	3.0	54
42	Arc spectral processing technique with its application to wire feed monitoring in Al-Mg alloy pulsed gas tungsten arc welding. Journal of Materials Processing Technology, 2013, 213, 707-716.	6.3	34
43	Spectroscopic Diagnostics of Pulsed Gas Tungsten Arc Welding Plasma and Its Effect on Weld Formation of Aluminum-Magnesium Alloy. Spectroscopy Letters, 2013, 46, 350-363.	1.0	10
44	Research on the Real-time Tracking Information of Three-dimension Welding Seam in Robotic GTAW Process Based on Composite Sensor Technology. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 68, 89-103.	3.4	41
45	Closed-Loop Control of Robotic Arc Welding System with Full-penetration Monitoring. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 56, 565-578.	3.4	39