Longchao Cao

List of Publications by Year
in descending order

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33	912	394421	477307
papers	citations	19 h-index	29 g-index

33	33	33	591
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In situ quality inspection with layer-wise visual images based on deep transfer learning during selective laser melting. Journal of Intelligent Manufacturing, 2023, 34, 853-867.	7.3	24
2	A prediction approach of SLM based on the ensemble of metamodels considering material efficiency, energy consumption, and tensile strength. Journal of Intelligent Manufacturing, 2022, 33, 687-702.	7.3	7
3	In situ porosity intelligent classification of selective laser melting based on coaxial monitoring and image processing. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110232.	5.0	21
4	Multi-objective process parameters optimization of SLM using the ensemble of metamodels. Journal of Manufacturing Processes, 2021, 68, 198-209.	5.9	33
5	Optimization of surface roughness and dimensional accuracy in LPBF additive manufacturing. Optics and Laser Technology, 2021, 142, 107246.	4.6	74
6	Deep Learning Based Monitoring of Spatter Behavior by the Acoustic Signal in Selective Laser Melting. Sensors, 2021, 21, 7179.	3.8	12
7	Mechanism investigation of the influence of the magnetic field on the molten pool behavior during laser welding of aluminum alloy. International Journal of Heat and Mass Transfer, 2020, 162, 120390.	4.8	26
8	Application of sensing techniques and artificial intelligence-based methods to laser welding real-time monitoring: A critical review of recent literature. Journal of Manufacturing Systems, 2020, 57, 1-18.	13.9	95
9	A data-driven model for weld bead monitoring during the laser welding assisted by magnetic field. International Journal of Advanced Manufacturing Technology, 2020, 107, 475-487.	3.0	5
10	Multi-physics simulation of dendritic growth in magnetic field assisted solidification. International Journal of Heat and Mass Transfer, 2019, 144, 118673.	4.8	25
11	Predicting the weld width from high-speed successive images of the weld zone using different machine learning algorithms during laser welding. Mathematical Biosciences and Engineering, 2019, 16, 5595-5612.	1.9	11
12	Optimization of laser brazing onto galvanized steel based on ensemble of metamodels. Journal of Intelligent Manufacturing, 2018, 29, 1417-1431.	7.3	41
13	Prediction of angular distortion in the fiber laser keyhole welding process based on a variable-fidelity approximation modeling approach. Journal of Intelligent Manufacturing, 2018, 29, 719-736.	7.3	12
14	Multi-objective process parameters optimization of hot-wire laser welding using ensemble of metamodels and NSGA-II. Robotics and Computer-Integrated Manufacturing, 2018, 53, 141-152.	9.9	45
15	Multi-objective process parameters optimization of Laser-magnetic hybrid welding combining Kriging and NSGA-II. Robotics and Computer-Integrated Manufacturing, 2018, 49, 253-262.	9.9	28
16	Investigation on the weld bead profile transformation with the keyhole and molten pool dynamic behavior simulation in high power laser welding. International Journal of Heat and Mass Transfer, 2018, 116, 1304-1313.	4.8	52
17	Robust optimization for reducing welding-induced angular distortion in fiber laser keyhole welding under process parameter uncertainty. Applied Thermal Engineering, 2018, 129, 893-906.	6.0	25
18	A space mapping method based on Gaussian process model for variable fidelity metamodeling. Simulation Modelling Practice and Theory, 2018, 81, 64-84.	3.8	15

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19	Cellular automaton modeling for dendritic growth during laser beam welding solidification process. Journal of Laser Applications, 2018, 30, .	1.7	14
20	Identifying optimal process parameters in deep penetration laser welding by adopting Hierarchical-Kriging model. Infrared Physics and Technology, 2018, 92, 443-453.	2.9	20
21	Accurate Prediction of the Weld Bead Characteristic in Laser Keyhole Welding Based on the Stochastic Kriging Model. Metals, 2018, 8, 486.	2.3	10
22	Influence of axial magnetic field on shape and microstructure of stainless steel laser welding joint. International Journal of Advanced Manufacturing Technology, 2017, 91, 3051-3060.	3.0	10
23	Improvement of low-temperature impact toughness for 304 weld joint produced by laser-MIG hybrid welding under magnetic field. Journal of Materials Processing Technology, 2017, 247, 306-314.	6.3	39
24	Optimization of processing parameters of AISI 316L laser welding influenced by external magnetic field combining RBFNN and GA. Results in Physics, 2017, 7, 1329-1338.	4.1	22
25	A multi-fidelity information fusion metamodeling assisted laser beam welding process parameter optimization approach. Advances in Engineering Software, 2017, 110, 85-97.	3.8	27
26	Effects of Welding Speed on Microstructure and Mechanical Property of Fiber Laser Welded Dissimilar Butt Joints between AISI316L and EH36. Metals, 2017, 7, 270.	2.3	14
27	An active learning radial basis function modeling method based on self-organization maps for simulation-based design problems. Knowledge-Based Systems, 2017, 131, 10-27.	7.1	41
28	Multi-objective optimization of weld geometry in hybrid fiber laser-arc butt welding using Kriging model and NSGA-II. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	17
29	Parameters optimization of hybrid fiber laser-arc butt welding on 316L stainless steel using Kriging model and GA. Optics and Laser Technology, 2016, 83, 153-162.	4.6	57
30	Optimization of Process Parameters of Hybrid Laserâ€“Arc Welding onto 316L Using Ensemble of Metamodels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2182-2196.	2.1	22
31	Optimization of welding process parameters by combining Kriging surrogate with particle swarm optimization algorithm. International Journal of Advanced Manufacturing Technology, 2016, 86, 2473-2483.	3.0	37
32	Metamodel Assisted Robust Optimization under Interval Uncertainly Based on Reverse Model. IFAC-PapersOnLine, 2015, 48, 1178-1183.	0.9	5
33	A deterministic robust optimisation method under interval uncertainty based on the reverse model. Journal of Engineering Design, 2015, 26, 416-444.	2.3	26