

Ping Jiang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

1,988
citations

26
h-index

35
g-index

143
ext. papers

2,578
ext. citations

3.9
avg, IF

5.3
L-index

#	Paper	IF	Citations
128	A multi-fidelity surrogate modeling approach for incorporating multiple non-hierarchical low-fidelity data. <i>Advanced Engineering Informatics</i> , 2022 , 51, 101430	7.4	0
127	Numerical and experimental analysis for morphology evolution of 6061 aluminum alloy during nanosecond pulsed laser cleaning. <i>Surface and Coatings Technology</i> , 2022 , 432, 128056	4.4	3
126	Real-time identification of molten pool and keyhole using a deep learning-based semantic segmentation approach in penetration status monitoring. <i>Journal of Manufacturing Processes</i> , 2022 , 76, 695-707	5	0
125	EBSD study on magnetic field altering crystal texture and grain growth during laser-hybrid welding. <i>Materials and Design</i> , 2022 , 216, 110587	8.1	0
124	Dendrite remelting during arc oscillation welding of magnesium alloys: a phase-field study. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	0
123	Influence of the wrinkle surface structures on the vapor flow and keyhole stability in 20 kW high power laser welding. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 193, 122958	4.9	0
122	Numerical study of keyhole dynamics and porosity formation during high-power oscillating laser welding of medium-thick aluminum alloy plates. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 194, 123084	4.9	0
121	Real-time monitoring of laser keyhole welding penetration state based on deep belief network. <i>Journal of Manufacturing Processes</i> , 2021 , 72, 203-214	5	2
120	Multiphase-field simulation of grain coalescence behavior and its effects on solidification cracking susceptibility during welding of Al-Cu alloys. <i>Materials and Design</i> , 2021 , 211, 110146	8.1	2
119	An improved sequential multi-objective robust optimisation approach considering interval uncertainty reduction under mixed uncertainties. <i>Journal of Engineering Design</i> , 2021 , 32, 61-89	1.8	1
118	A parallel constrained lower confidence bounding approach for computationally expensive constrained optimization problems. <i>Applied Soft Computing Journal</i> , 2021 , 106, 107276	7.5	3
117	A multi-fidelity Bayesian optimization approach based on the expected further improvement. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 63, 1709-1719	3.6	1
116	Multi-fidelity surrogate model-assisted fatigue analysis of welded joints. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 63, 2771-2787	3.6	0
115	A multi-fidelity surrogate modeling method based on variance-weighted sum for the fusion of multiple non-hierarchical low-fidelity data. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 64, 3797	3.6	1
114	Effects of energy density attenuation on the stability of keyhole and molten pool during deep penetration laser welding process: A combined numerical and experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 176, 121410	4.9	6
113	A New Multi-Objective Bayesian Optimization Formulation With the Acquisition Function for Convergence and Diversity. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2020 , 142,	3	15
112	Multi-fidelity Surrogate Models. <i>Springer Tracts in Mechanical Engineering</i> , 2020 , 55-87	0.3	

111	Verification Methods for Surrogate Models. <i>Springer Tracts in Mechanical Engineering</i> , 2020 , 89-113	0.3	1
110	Sampling Approaches. <i>Springer Tracts in Mechanical Engineering</i> , 2020 , 115-134	0.3	
109	Classic Types of Surrogate Models. <i>Springer Tracts in Mechanical Engineering</i> , 2020 , 7-34	0.3	
108	Surrogate-Model-Based Design and Optimization. <i>Springer Tracts in Mechanical Engineering</i> , 2020 , 135-236	0.3	5
107	Surrogate Model-Based Engineering Design and Optimization. <i>Springer Tracts in Mechanical Engineering</i> , 2020 ,	0.3	11
106	Heat transfer and fluid flow and their effects on the solidification microstructure in full-penetration laser welding of aluminum sheet. <i>Journal of Materials Science and Technology</i> , 2020 , 46, 50-63	9.1	28
105	Multi-scale simulation of grain/sub-grain structure evolution during solidification in laser welding of aluminum alloys. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 149, 119252	4.9	13
104	Multi-physics multi-scale simulation of the solidification process in the molten pool during laser welding of aluminum alloys. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 161, 120316	4.9	10
103	Application of sensing techniques and artificial intelligence-based methods to laser welding real-time monitoring: A critical review of recent literature. <i>Journal of Manufacturing Systems</i> , 2020 , 57, 1-18	9.1	40
102	Variable-fidelity probability of improvement method for efficient global optimization of expensive black-box problems. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 62, 3021-3052	3.6	8
101	The Interaction between Grains during Columnar-to-Equiaxed Transition in Laser Welding: A Phase-Field Study. <i>Metals</i> , 2020 , 10, 1647	2.3	1
100	Variable-Fidelity Lower Confidence Bounding Approach for Engineering Optimization Problems with Expensive Simulations. <i>AIAA Journal</i> , 2019 , 57, 5416-5430	2.1	17
99	Novel Approach for Selecting Low-Fidelity Scale Factor in Multifidelity Metamodeling. <i>AIAA Journal</i> , 2019 , 57, 5320-5330	2.1	9
98	Fine Grains Reduce Cracking Susceptibility During Solidification: Insights from Phase-Field Simulations. <i>Jom</i> , 2019 , 71, 3223-3229	2.1	5
97	An online variable-fidelity optimization approach for multi-objective design optimization. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 60, 1059-1077	3.6	11
96	A lower confidence bounding approach based on the coefficient of variation for expensive global design optimization. <i>Engineering Computations</i> , 2019 , 36, 830-849	1.4	9
95	Identification of nucleation mechanism in laser welds of aluminum alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	12
94	Equipment and Machine Learning in Welding Monitoring 2019 ,		2

93	Multi-physics simulation of dendritic growth in magnetic field assisted solidification. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 144, 118673	4.9	14
92	Predicting the weld width from high-speed successive images of the weld zone using different machine learning algorithms during laser welding. <i>Mathematical Biosciences and Engineering</i> , 2019 , 16, 5595-5612	2.1	6
91	Numerical analysis of hybrid plasma in fiber laser-arc welding. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 025206	3	3
90	Optimization of laser brazing onto galvanized steel based on ensemble of metamodels. <i>Journal of Intelligent Manufacturing</i> , 2018 , 29, 1417-1431	6.7	28
89	An on-line variable fidelity metamodel assisted Multi-objective Genetic Algorithm for engineering design optimization. <i>Applied Soft Computing Journal</i> , 2018 , 66, 438-448	7.5	14
88	Multi-objective process parameters optimization of hot-wire laser welding using ensemble of metamodels and NSGA-II. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018 , 53, 141-152	9.2	24
87	Investigation of the humping formation in the high power and high speed laser welding. <i>Optics and Lasers in Engineering</i> , 2018 , 107, 102-111	4.6	24
86	Enhancement of fatigue resistance for 316L welds produced by magnetic field assisted laser-MIG hybrid welding. <i>Journal of Materials Processing Technology</i> , 2018 , 254, 114-123	5.3	13
85	Morphologies, microstructures and properties of TiC particle reinforced Inconel 625 coatings obtained by laser cladding with wire. <i>Journal of Alloys and Compounds</i> , 2018 , 740, 16-27	5.7	50
84	Effect of magnetic field on crystallographic orientation for stainless steel 316L laser-MIG hybrid welds and its strengthening mechanism on fatigue resistance. <i>International Journal of Fatigue</i> , 2018 , 112, 308-317	5	11
83	Comparison of solidification cracking susceptibility between Al-Mg and Al-Cu alloys during welding: A phase-field study. <i>Scripta Materialia</i> , 2018 , 150, 120-124	5.6	25
82	A multi-objective robust optimization approach for engineering design under interval uncertainty. <i>Engineering Computations</i> , 2018 , 35, 580-603	1.4	6
81	An adaptive sampling method for variable-fidelity surrogate models using improved hierarchical kriging. <i>Engineering Optimization</i> , 2018 , 50, 145-163	2	14
80	A multi-objective robust optimization approach based on Gaussian process model. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 213-233	3.6	17
79	Multi-objective process parameters optimization of Laser-magnetic hybrid welding combining Kriging and NSGA-II. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018 , 49, 253-262	9.2	20
78	Investigation on the weld bead profile transformation with the keyhole and molten pool dynamic behavior simulation in high power laser welding. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 1304-1313	4.9	34
77	An adaptive sampling strategy for Kriging metamodel based on Delaunay triangulation and TOPSIS. <i>Applied Intelligence</i> , 2018 , 48, 1644-1656	4.9	13
76	A robust optimization approach based on multi-fidelity metamodel. <i>Structural and Multidisciplinary Optimization</i> , 2018 , 57, 775-797	3.6	38

75	Advanced Multi-Objective Robust Optimization Under Interval Uncertainty Using Kriging Model and Support Vector Machine. <i>Journal of Computing and Information Science in Engineering</i> , 2018 , 18,	2.4	12
74	Microstructure and performance of hybrid laser-arc welded 40 mm thick 316 L steel plates. <i>Journal of Materials Processing Technology</i> , 2018 , 259, 312-319	5.3	17
73	Fabrication and characterization of carbon fiber reinforced SiC ceramic matrix composites based on 3D printing technology. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4604-4613	6	41
72	In situ Weak Magnetic-Assisted Thermal Stress Field Reduction Effect in Laser Welding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 198-209	2.3	8
71	A space mapping method based on Gaussian process model for variable fidelity metamodeling. <i>Simulation Modelling Practice and Theory</i> , 2018 , 81, 64-84	3.9	5
70	Numerical and experimental investigation of vacuum-assisted laser welding for DP590 galvanized steel lap joint without prescribed gap. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 4177-4185	3.2	9
69	Effects of back-diffusion on solidification cracking susceptibility of Al-Mg alloys during welding: A phase-field study. <i>Acta Materialia</i> , 2018 , 160, 85-96	8.4	30
68	Comparative studies of error metrics in variable fidelity model uncertainty quantification. <i>Journal of Engineering Design</i> , 2018 , 29, 512-538	1.8	7
67	Experimental and numerical analysis of molten pool and keyhole profile during high-power deep-penetration laser welding. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 779-789	4.9	32
66	Cellular automaton modeling for dendritic growth during laser beam welding solidification process. <i>Journal of Laser Applications</i> , 2018 , 30, 032406	2.1	7
65	Study on droplet transfer and weld quality in laser-MIG hybrid welding of 316L stainless steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 483-493	3.2	11
64	Influence of axial magnetic field on shape and microstructure of stainless steel laser welding joint. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 3051-3060	3.2	8
63	Effect of static magnetic field on microstructures and mechanical properties of laser-MIG hybrid welding for 304 stainless steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 3437-3447	3.2	14
62	Three-dimensional transient thermoelectric currents in deep penetration laser welding of austenite stainless steel. <i>Optics and Lasers in Engineering</i> , 2017 , 91, 196-205	4.6	19
61	A variable fidelity information fusion method based on radial basis function. <i>Advanced Engineering Informatics</i> , 2017 , 32, 26-39	7.4	35
60	Morphologies, microstructures, and mechanical properties of samples produced using laser metal deposition with 316 L stainless steel wire. <i>Optics and Lasers in Engineering</i> , 2017 , 94, 1-11	4.6	75
59	Improvement of low-temperature impact toughness for 304 weld joint produced by laser-MIG hybrid welding under magnetic field. <i>Journal of Materials Processing Technology</i> , 2017 , 247, 306-314	5.3	24
58	Optimization of processing parameters of AISI 316L laser welding influenced by external magnetic field combining RBFNN and GA. <i>Results in Physics</i> , 2017 , 7, 1329-1338	3.7	13

57	A multi-fidelity information fusion metamodeling assisted laser beam welding process parameter optimization approach. <i>Advances in Engineering Software</i> , 2017 , 110, 85-97	3.6	22
56	Research on microstructures and properties of Inconel 625 coatings obtained by laser cladding with wire. <i>Journal of Alloys and Compounds</i> , 2017 , 715, 362-373	5.7	52
55	Laser Welding Process Parameters Optimization Using Variable-Fidelity Metamodel and NSGA-II. <i>MATEC Web of Conferences</i> , 2017 , 95, 05002	0.3	1
54	Correlation of high power laser welding parameters with real weld geometry and microstructure. <i>Optics and Laser Technology</i> , 2017 , 94, 59-67	4.2	25
53	Sub-microsecond vapor plume dynamics under different keyhole penetration regimes in deep penetration laser welding. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 205601	3	7
52	A three-dimensional numerical simulation model for weld characteristics analysis in fiber laser keyhole welding. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 614-626	4.9	39
51	Effects of Welding Speed on Microstructure and Mechanical Property of Fiber Laser Welded Dissimilar Butt Joints between AISI316L and EH36. <i>Metals</i> , 2017 , 7, 270	2.3	11
50	Metamodel-based design optimization employing a novel sequential sampling strategy. <i>Engineering Computations</i> , 2017 , 34, 2547-2564	1.4	10
49	Analysis of crack tip transformation zone in austenitic stainless steel laser-MIG hybrid welded joint. <i>Materials Characterization</i> , 2017 , 132, 260-268	3.9	6
48	A sequential multi-fidelity metamodeling approach for data regression. <i>Knowledge-Based Systems</i> , 2017 , 134, 199-212	7.3	51
47	Effect of magnetic field applied during laser-arc hybrid welding in improving the pitting resistance of the welded zone in austenitic stainless steel. <i>Corrosion Science</i> , 2017 , 126, 385-391	6.8	19
46	The influence of heat input on microstructure and mechanical properties for dissimilar welding of galvanized steel to 6061 aluminum alloy in a zero-gap lap joint configuration. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 556-566	5.7	28
45	An On-Line Multi-Fidelity Metamodel Assisted Multi-Objective Genetic Algorithm 2017 ,		4
44	An on-line Kriging metamodel assisted robust optimization approach under interval uncertainty. <i>Engineering Computations</i> , 2017 , 34, 420-446	1.4	8
43	The prediction of the whole weld in fiber laser keyhole welding based on numerical simulation. <i>Applied Thermal Engineering</i> , 2017 , 113, 980-993	5.8	23
42	Parameters optimization and objective trend analysis for fiber laser keyhole welding based on Taguchi-FEA. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 90, 1419-1432	3.2	7
41	A sequential multi-objective robust optimization approach under interval uncertainty based on support vector machines 2017 ,		2
40	An active learning radial basis function modeling method based on self-organization maps for simulation-based design problems. <i>Knowledge-Based Systems</i> , 2017 , 131, 10-27	7.3	29

39	Variable fidelity metamodel-based analytical target cascading method for green design. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 1203-1216	3.2	5
38	Effect of axial magnetic field in the laser beam welding of stainless steel to aluminum alloy. <i>Materials and Design</i> , 2016 , 109, 146-152	8.1	50
37	A Sequential Sampling Strategy for Multiresponse Radial Basis Function 2016 ,		1
36	A modified BLISCO method and its combination with variable fidelity metamodel for engineering design. <i>Engineering Computations</i> , 2016 , 33, 1353-1377	1.4	6
35	Optimization of Process Parameters of Hybrid Laser Arc Welding onto 316L Using Ensemble of Metamodels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 2182-2196	2.5	18
34	An active learning variable-fidelity metamodeling approach based on ensemble of metamodels and objective-oriented sequential sampling. <i>Journal of Engineering Design</i> , 2016 , 27, 205-231	1.8	36
33	Optimization of welding process parameters by combining Kriging surrogate with particle swarm optimization algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 86, 2473-2483	3.2	26
32	An optimization method for defects reduction in fiber laser keyhole welding. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	4
31	A defect-responsive optimization method for the fiber laser butt welding of dissimilar materials. <i>Materials and Design</i> , 2016 , 90, 669-681	8.1	20
30	A sequential sampling strategy for Kriging metamodel based on Delaunay triangulation and TOPSIS 2016 ,		1
29	Optimization of laser welding process parameters of stainless steel 316L using FEM, Kriging and NSGA-II. <i>Advances in Engineering Software</i> , 2016 , 99, 147-160	3.6	63
28	Welded joints integrity analysis and optimization for fiber laser welding of dissimilar materials. <i>Optics and Lasers in Engineering</i> , 2016 , 86, 62-74	4.6	31
27	Multi-objective optimization of weld geometry in hybrid fiber laser-arc butt welding using Kriging model and NSGA-II. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	11
26	An active learning metamodeling approach by sequentially exploiting difference information from variable-fidelity models. <i>Advanced Engineering Informatics</i> , 2016 , 30, 283-297	7.4	43
25	Parameters optimization of hybrid fiber laser-arc butt welding on 316L stainless steel using Kriging model and GA. <i>Optics and Laser Technology</i> , 2016 , 83, 153-162	4.2	40
24	Process modeling and parameter optimization using radial basis function neural network and genetic algorithm for laser welding of dissimilar materials. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 121, 555-569	2.6	18
23	Difference mapping method using least square support vector regression for variable-fidelity metamodeling. <i>Engineering Optimization</i> , 2015 , 47, 719-736	2	16
22	An adaptive global variable fidelity metamodeling strategy using a support vector regression based scaling function. <i>Simulation Modelling Practice and Theory</i> , 2015 , 59, 18-35	3.9	55

21	A deterministic robust optimisation method under interval uncertainty based on the reverse model. <i>Journal of Engineering Design</i> , 2015 , 26, 416-444	1.8	20
20	A novel sequential exploration-exploitation sampling strategy for global metamodeling. <i>IFAC-PapersOnLine</i> , 2015 , 48, 532-537	0.7	11
19	Metamodel Assisted Robust Optimization under Interval Uncertainty Based on Reverse Model. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1178-1183	0.7	5
18	An active learning variable-fidelity metamodeling approach for engineering design 2015 ,		1
17	An Enhanced Analytical Target Cascading and Kriging Model Combined Approach for Multidisciplinary Design Optimization. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11	1.1	9
16	A prior-knowledge input LSSVR metamodeling method with tuning based on cellular particle swarm optimization for engineering design. <i>Expert Systems With Applications</i> , 2014 , 41, 2111-2125	7.8	22
15	An Improved Bi-Level Integrated System Collaborative Optimization method for multidisciplinary design optimization 2014 ,		4
14	Sequential optimisation and reliability assessment for multidisciplinary design optimisation under hybrid uncertainty of randomness and fuzziness. <i>Journal of Engineering Design</i> , 2013 , 24, 363-382	1.8	20
13	A hybrid variable-fidelity global approximation modelling method combining tuned radial basis function base and kriging correction. <i>Journal of Engineering Design</i> , 2013 , 24, 604-622	1.8	49
12	Modeling of cutting forces in a face-milling operation with Gene Expression Programming 2012 ,		1
11	Analysis of gene expression programming for approximation in engineering design. <i>Structural and Multidisciplinary Optimization</i> , 2012 , 46, 399-413	3.6	28
10	Analytical Target Cascading Based on the Quadratic Exterior Penalty Method for Complex System Design. <i>Advanced Materials Research</i> , 2012 , 544, 164-169	0.5	1
9	The Simulation of the Ship Production Design Process Based on Hierarchical Timed Petri Net. <i>Advanced Materials Research</i> , 2012 , 544, 170-175	0.5	2
8	A generalised collaborative optimisation method and its combination with kriging metamodels for engineering design. <i>Journal of Engineering Design</i> , 2012 , 23, 379-399	1.8	26
7	A process-view approach for cross-organizational workflows management. <i>Advanced Engineering Informatics</i> , 2010 , 24, 229-240	7.4	14
6	Collaborative execution mechanisms for the TCPN-enhanced process-view approach based inter-enterprises workflow 2009 ,		2
5	A Web services and process-view combined approach for process management of collaborative product development. <i>Computers in Industry</i> , 2009 , 60, 416-427	11.6	19
4	Interoperability of Cross-organizational Workflows based on Process-view for Collaborative Product Development. <i>Concurrent Engineering Research and Applications</i> , 2008 , 16, 73-87	1.7	22

3	Workflow Modeling for Virtual Enterprise: a Petri Net Based Process-View Approach 2006 ,		2
2	Real-time laser keyhole welding penetration state monitoring based on adaptive fusion images using convolutional neural networks. <i>Journal of Intelligent Manufacturing</i> ,1	6.7	1
1	Process parameter selection for laser welding of aluminium alloy from the perspective of energy effectiveness. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> ,095440542210780	2.4	1