

# Hong Lu

## 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.

42  
papers

172  
citations

8  
h-index

10  
g-index

55  
ext. papers

235  
ext. citations

2.4  
avg, IF

3.13  
L-index

#	Paper	IF	Citations
42	Towards a Uniform Welding Quality: A Novel Weaving Welding Control Algorithm Based on Constant Heat Input. <i>Materials</i> , <b>2022</b> , 15, 3796	3.5	
41	Meshing analysis and optimization for plane-generated enveloping toroid hourglass worm drive. <i>Journal of Mechanical Science and Technology</i> , <b>2021</b> , 35, 3069-3080	1.6	3
40	Influence of Surface Waviness of Journal and Bearing Bush on the Static Characteristics of Hydrodynamic Bearing. <i>Processes</i> , <b>2021</b> , 9, 110	2.9	0
39	Dynamic Characteristics of Gear Coupling and Rotor System in Transmission Process Considering Misalignment and Tooth Contact Analysis. <i>Processes</i> , <b>2020</b> , 8, 1336	2.9	4
38	A General Stroke-Based Model for the Straightening Process of D-Type Shaft. <i>Processes</i> , <b>2020</b> , 8, 528	2.9	1
37	A Non-Delay Error Compensation Method for Dual-Driving Gantry-Type Machine Tool. <i>Processes</i> , <b>2020</b> , 8, 748	2.9	1
36	Predictive model of grinding residual stress for linear guideway considering straightening history. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 176, 105536	5.5	6
35	Visual-Based Multi-Section Welding Path Generation Algorithm. <i>Processes</i> , <b>2020</b> , 8, 821	2.9	0
34	Enhancement in Quality Estimation of Resistance Spot Welding Using Vision System and Fuzzy Support Vector Machine. <i>Symmetry</i> , <b>2020</b> , 12, 1380	2.7	1
33	A Novel Geometric Error Compensation Method for Gantry-Moving CNC Machine Regarding Dominant Errors. <i>Processes</i> , <b>2020</b> , 8, 906	2.9	3
32	A normal contact stiffness model of machined joint surfaces considering elastic, elasto-plastic and plastic factors. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , <b>2020</b> , 234, 1007-1016	1.4	2
31	Peg-hole disassembly using active compliance. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 190476	3.3	11
30	Study on Reverse Bending Characteristics in Straightening Process Considering the stress superposition. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 252, 022116	0.3	
29	Fault Diagnosis Method for Rolling Bearings Based on Composite Multiscale Fluctuation Dispersion Entropy. <i>Entropy</i> , <b>2019</b> , 21,	2.8	12
28	A Novel Method of Using Vision System and Fuzzy Logic for Quality Estimation of Resistance Spot Welding. <i>Symmetry</i> , <b>2019</b> , 11, 990	2.7	8
27	Multivariate orthogonal polynomial-based positioning error modeling and active compensation of dual-driven feed system. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 104, 2593-2605	3.2	3
26	Variable Span Multistep Straightening Process for Long/Extra-Long Linear Guideways. <i>IEEE Access</i> , <b>2019</b> , 7, 107491-107505	3.5	2

25	A Rotor Fault Diagnosis Method Depending on Local Mean Decomposition and Singular Value Entropy <b>2019</b> ,		1
24	A Straightness Control System for Motor Shaft Straightening with the Stroke Prediction Algorithm <b>2019</b> ,		1
23	A novel control strategy for the multi-step straightening process of long/extra-long linear guideways. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2019</b> , 233, 2959-2975	1.3	1
22	Cross-coupled fuzzy logic sliding mode control of dual-driving feed system. <i>Advances in Mechanical Engineering</i> , <b>2018</b> , 10, 168781401875551	1.2	11
21	Digitization modeling and CNC machining for cone-generated double-enveloping worm drive. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 95, 3393-3412	3.2	5
20	Analysis of dynamic characteristic for misalignment-spline gear shaft based on whole transfer matrix method. <i>Journal of Vibroengineering</i> , <b>2018</b> , 20, 1392-1408	0.5	5
19	A novel analytical model for straightening process of rectangle-section metal bars considering asymmetrical hardening features. <i>Advances in Mechanical Engineering</i> , <b>2018</b> , 10, 168781401879915	1.2	5
18	Rolling Bearing Diagnosis Based on Composite Multiscale Weighted Permutation Entropy. <i>Entropy</i> , <b>2018</b> , 20,	2.8	8
17	Dynamic Modeling and Experiment Research on Twin Ball Screw Feed System Considering the Joint Stiffness. <i>Symmetry</i> , <b>2018</b> , 10, 686	2.7	8
16	Two-Degree-Of-Freedom Dynamic Model-Based Terminal Sliding Mode Control with Observer for Dual-Driving Feed Stage. <i>Symmetry</i> , <b>2018</b> , 10, 488	2.7	8
15	Analytical Model of a Multi-Step Straightening Process for Linear Guideways Considering Neutral Axis Deviation. <i>Symmetry</i> , <b>2018</b> , 10, 316	2.7	3
14	Dynamic Characteristics Analysis and Test of Dual-Driving Feed System Driven by Center of Gravity. <i>Mathematical Problems in Engineering</i> , <b>2018</b> , 2018, 1-16	1.1	2
13	Spiral tool path generation based on symbolic computation for machining of non-axisymmetric curved surface. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 91, 3911-3924	3.2	
12	Research on assembly modeling process based on virtual manufacturing interactive application technology <b>2017</b> ,		1
11	The numerical and experimental investigations of the near wake behind a modified square stay-cable. <i>Journal of Hydrodynamics</i> , <b>2016</b> , 28, 897-904	3.3	3
10	A novel CNC machining method for enveloping surface. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 85, 779-790	3.2	5
9	Digitization modeling and CNC machining for enveloping surface parts. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 73, 209-227	3.2	10
8	High efficiency axial deep creep-feed grinding machining technology of engineering ceramics materials. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2012</b> , 27, 902-906	1	

7	Flow Patterns and Force Characteristics of Laminar Flow Past Four Cylinders in Diamond Arrangement. <i>Journal of Hydrodynamics</i> , <b>2011</b> , 23, 55-64	3.3	18
6	Bending properties of GCr15 steel guide rail under the multi-step loading. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2010</b> , 25, 561-564	1	1
5	Improvement on straightness of metal bar based on straightening stroke-deflection model. <i>Science in China Series D: Earth Sciences</i> , <b>2009</b> , 52, 1866-1873		15
4	Mechanical properties of stationary shoulder friction stir welded Aluminum alloys AA7075-T651. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> ,095440622110707	1.3	3
3	Dynamic characteristics and research on the dual-drive feed mechanism. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> ,095440622098419	1.3	1
2	Dynamic modeling and experimental research on position-dependent behavior of twin ball screw feed system. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	0
1	A method to improve position accuracy for the dual-drive feed machines by state-dependent friction compensation. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> ,095440542210762	2.4	