

Hongyao Shen

List of Publications by Year in descending order

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52
papers

996
citations

394421

19
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477307

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53
docs citations

53
times ranked

718
citing authors

#	ARTICLE	IF	CITATIONS
1	Residual thermal stress prediction for continuous tool-paths in wire-arc additive manufacturing: a three-level data-driven method. <i>Virtual and Physical Prototyping</i> , 2022, 17, 105-124.	10.4	9
2	Effect of induction heat treatment on residual stress distribution of components fabricated by wire arc additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2022, 75, 331-345.	5.9	23
3	Automated detection of defects with low semantic information in X-ray images based on deep learning. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 141-156.	7.3	32
4	A New Phenomenon of Ni-Ti Alloys and Its Application for Fabricating Thermally Responsive Microrobots. <i>Advanced Engineering Materials</i> , 2021, 23, 2001367.	3.5	3
5	Research and Optimization of the Three-Dimensional Printing Unloading Process for the Flexible Support Platform. <i>3D Printing and Additive Manufacturing</i> , 2021, 8, 136-147.	2.9	0
6	Thermal field prediction for welding paths in multi-layer gas metal arc welding-based additive manufacturing: A machine learning approach. <i>Journal of Manufacturing Processes</i> , 2021, 64, 960-971.	5.9	29
7	Measurement and evaluation of laser-scanned 3D profiles in wire arc hybrid manufacturing processes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 176, 109089.	5.0	10
8	Effective control of microstructure evolution in AZ91D magnesium alloy by SiC nanoparticles in laser powder-bed fusion. <i>Materials and Design</i> , 2021, 206, 109787.	7.0	33
9	Research on support-free WAAM based on surface/interior separation and surface segmentation. <i>Journal of Materials Processing Technology</i> , 2021, 297, 117240.	6.3	12
10	Effect of carbon nanotube on thermal, tribological and mechanical properties of 3D printing polyphenylene sulfide. <i>Additive Manufacturing</i> , 2021, 47, 102247.	3.0	8
11	Automatic Defect Segmentation in X-Ray Images Based on Deep Learning. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 12912-12920.	7.9	20
12	Colourful fused filament fabrication method based on transitioning waste infilling technology with a colour surface model. <i>Rapid Prototyping Journal</i> , 2021, 27, 145-154.	3.2	3
13	Visual Detection of Surface Defects Based on Self-Feature Comparison in Robot 3-D Printing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 235.	2.5	13
14	Thermo-Fluid-Dynamic Modeling of the Melt Pool during Selective Laser Melting for AZ91D Magnesium Alloy. <i>Materials</i> , 2020, 13, 4157.	2.9	18
15	Study of the Mechanism of a Stable Deposited Height During GMAW-Based Additive Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4322.	2.5	4
16	Five-Axis Freeform Surface Color Printing Technology Based on Offset Curve Path Planning Method. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1716.	2.5	2
17	Building Orientation Determination Based on Multi-Objective Optimization for Additive Manufacturing. <i>3D Printing and Additive Manufacturing</i> , 2020, 7, 186-197.	2.9	10
18	Research on a planning method for switching moments in hybrid manufacturing processes. <i>Journal of Manufacturing Processes</i> , 2020, 56, 786-795.	5.9	3

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19	Five-Axis Tool Path Generation of Injection Mold Represented by T-Spline Surface. <i>Advances in Polymer Technology</i> , 2020, 2020, 1-11.	1.7	0
20	Approaches for improvement of the X-ray image defect detection of automobile casting aluminum parts based on deep learning. <i>NDT and E International</i> , 2019, 107, 102144.	3.7	98
21	Research on large-scale additive manufacturing based on multi-robot collaboration technology. <i>Additive Manufacturing</i> , 2019, 30, 100906.	3.0	36
22	Online quality monitoring in material extrusion additive manufacturing processes based on laser scanning technology. <i>Precision Engineering</i> , 2019, 60, 76-84.	3.4	66
23	Corrosion behaviour of laser powder bed fused bulk pure magnesium in hankâ€™s solution. <i>Corrosion Science</i> , 2019, 157, 284-294.	6.6	33
24	Effect of aluminium content and processing parameters on the microstructure and mechanical properties of laser powder-bed fused magnesium-aluminium (0, 3, 6, 9wt%) powder mixture. <i>Rapid Prototyping Journal</i> , 2019, 25, 744-751.	3.2	7
25	Free-form surface-oriented five-axis single-point color printing technology. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2019, 233, 1159-1171.	1.0	1
26	Multi-view online vision detection based on robot fused deposit modeling 3D printing technology. <i>Rapid Prototyping Journal</i> , 2019, 25, 343-355.	3.2	31
27	Microstructure and mechanical properties of selective laser melted Mg-9â€™wt%Al powder mixture. <i>Materials Letters</i> , 2018, 221, 4-7.	2.6	51
28	Single-layer temperature-adjusting transition method to improve the bond strength of 3D-printed PCL/PLA parts. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 115, 22-30.	7.6	50
29	Self-Sensing of Position-Related Loads in Continuous Carbon Fibers-Embedded 3D-Printed Polymer Structures Using Electrical Resistance Measurement. <i>Sensors</i> , 2018, 18, 994.	3.8	32
30	A polygons Boolean operations-based adaptive slicing with sliced data for additive manufacturing. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 2783-2799.	2.1	8
31	A new toolpath generation method with feed sensitive zones inspection based on inverse evaluation mechanism. <i>International Journal of Computer Integrated Manufacturing</i> , 2017, 30, 926-942.	4.6	0
32	The tool following function-based identification approach for all geometric errors of rotary axes using ballbar. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 3509-3527.	2.1	4
33	Numerical solution of simultaneous equations based geometric error compensation for CNC machine tools with workpiece model reconstruction. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 2265-2278.	3.0	10
34	Generating HSM-adapted pocketing tool path by region subdivision. <i>International Journal of Computer Integrated Manufacturing</i> , 2016, 29, 581-590.	4.6	6
35	NC codes optimization for geometric error compensation of five-axis machine tools with one novel mathematical model. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 80, 1879-1894.	3.0	16
36	Machining error inspection of T-spline surface by on-machine measurement. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 433-439.	2.2	19

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37	Five-axis trajectory generation based on kinematic constraints and optimisation. International Journal of Computer Integrated Manufacturing, 2015, 28, 266-277.	4.6	12
38	Research on inverse evaluation mechanism in toolpath generation based on global interpolation simulation. International Journal of Advanced Manufacturing Technology, 2015, 79, 1265-1283.	3.0	5
39	Smooth contour-parallel tool path generation for high-speed machining through a dual offset procedure. International Journal of Advanced Manufacturing Technology, 2015, 81, 1233-1245.	3.0	23
40	Product-of-exponential formulas for precision enhancement of five-axis machine tools via geometric error modeling and compensation. International Journal of Advanced Manufacturing Technology, 2015, 81, 289-305.	3.0	51
41	Tool path generation for multi-axis freeform surface finishing with the LKH TSP solver. CAD Computer Aided Design, 2015, 69, 51-61.	2.7	30
42	A Novel Method of Efficient Machining Error Compensation Based on NURBS Surface Control Points Reconstruction. Machining Science and Technology, 2015, 19, 499-513.	2.5	10
43	An accurate surface error optimization for five-axis machining of freeform surfaces. International Journal of Advanced Manufacturing Technology, 2014, 71, 1175-1185.	3.0	18
44	A generic uniform scallop tool path generation method for five-axis machining of freeform surface. CAD Computer Aided Design, 2014, 56, 120-132.	2.7	35
45	Non-singular tool path planning by translating tool orientations in C-space. International Journal of Advanced Manufacturing Technology, 2014, 71, 1835-1848.	3.0	32
46	On the workpiece setup optimization for five-axis machining with RTCP function. International Journal of Advanced Manufacturing Technology, 2014, 74, 187-197.	3.0	23
47	Efficient cutting area detection in roughing process for meshed surfaces. International Journal of Advanced Manufacturing Technology, 2013, 69, 525-530.	3.0	7
48	Global uncut regions removal for efficient contour-parallel milling. International Journal of Advanced Manufacturing Technology, 2013, 68, 1241-1252.	3.0	14
49	A new adaptive interpolation scheme of NURBS based on axis dynamics. International Journal of Advanced Manufacturing Technology, 2011, 56, 215-221.	3.0	15
50	Generation of offset surface for tool path in NC machining through level set methods. International Journal of Advanced Manufacturing Technology, 2010, 46, 1043-1047.	3.0	16
51	Fabrication of multi-functional Ti alloys by laser powder bed fusion. International Journal of Advanced Manufacturing Technology, 0, , 1.	3.0	1
52	Study on cracks and process improvement for case hardened gear shaft straightening. Journal of Mechanical Science and Technology, 0, , .	1.5	3