Jinqiang Ning

List of Publications by Year
in descending order

31 papers	1,054 citations	361413 20 h-index	434195 31 g-index
34 all docs	34 docs citations	34 times ranked	698 citing authors

#	Article	IF	Citations
1	Analytical prediction of keyhole porosity in laser powder-bed fusion. International Journal of Advanced Manufacturing Technology, 2022, 119, 6995-7002.	3.0	9
2	Tapered Polymer Whiskers to Enable Three-Dimensional Tactile Feature Extraction. Soft Robotics, 2021, 8, 44-58.	8.0	3
3	Prediction of lack-of-fusion porosity in laser powder-bed fusion considering boundary conditions and sensitivity to laser power absorption. International Journal of Advanced Manufacturing Technology, 2021, 112, 61-70.	3.0	28
4	In-Situ Distortion Prediction in Metal Additive Manufacturing Considering Boundary Conditions. International Journal of Precision Engineering and Manufacturing, 2021, 22, 909-917.	2.2	12
5	Analytical Prediction of Balling, Lack-of-Fusion and Keyholing Thresholds in Powder Bed Fusion. Applied Sciences (Switzerland), 2021, 11, 12053.	2.5	11
6	Analytical modeling of post-printing grain size in metal additive manufacturing. Optics and Lasers in Engineering, 2020, 124, 105805.	3.8	38
7	Analytical modeling of part porosity in metal additive manufacturing. International Journal of Mechanical Sciences, 2020, 172, 105428.	6.7	67
8	Analytical modeling of in-process temperature in powder feed metal additive manufacturing considering heat transfer boundary condition. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 585-593.	4.9	28
9	Analytical modeling of in-situ deformation of part and substrate in laser cladding additive manufacturing of Inconel 625. Journal of Manufacturing Processes, 2020, 49, 135-140.	5.9	29
10	Investigation of Fracture Behavior and Mechanism in High-Speed Precise Shearing for Metal Bars with Prefabricated Fracture-Start Kerfs. Materials, 2020, 13, 4073.	2.9	5
11	Predictive Manufacturing: Subtractive and Additive. IOP Conference Series: Materials Science and Engineering, 2020, 842, 012024.	0.6	1
12	A Closed-Form Solution for Temperature Profiles in Selective Laser Melting of Metal Additive Manufacturing. Materials Science Forum, 2020, 982, 98-105.	0.3	2
13	Analytical modeling of part distortion in metal additive manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 107, 49-57.	3.0	36
14	Analytical Thermal Modeling of Powder Bed Metal Additive Manufacturing Considering Powder Size Variation and Packing. Materials, 2020, 13, 1988.	2.9	13
15	Constitutive modeling of ultra-fine-grained titanium flow stress for machining temperature prediction. Bio-Design and Manufacturing, 2019, 2, 153-160.	7.7	16
16	Analytical modeling of transient temperature in powder feed metal additive manufacturing during heating and cooling stages. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	36
17	Analytical modeling of 3D temperature distribution in selective laser melting of Ti-6Al-4V considering part boundary conditions. Journal of Manufacturing Processes, 2019, 44, 319-326.	5.9	68
18	Analytical Thermal Modeling of Metal Additive Manufacturing by Heat Sink Solution. Materials, 2019, 12, 2568.	2.9	28

#	ARTICLE	IF	CITATIONS
19	Analytical modeling of lack-of-fusion porosity in metal additive manufacturing. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	54
20	Analytical modeling and sensitivity analysis of the temperature distribution in the planar scanning induction heating based on 2D moving heat source. Journal of Mechanical Science and Technology, 2019, 33, 5093-5102.	1.5	11
21	Predictive Modeling of Machining Temperatures with Force–Temperature Correlation Using Cutting Mechanics and Constitutive Relation. Materials, 2019, 12, 284.	2.9	52
22	Analytical Modeling of the Temperature Using Uniform Moving Heat Source in Planar Induction Heating Process. Applied Sciences (Switzerland), 2019, 9, 1445.	2.5	22
23	Analytical Modeling of In-Process Temperature in Powder Bed Additive Manufacturing Considering Laser Power Absorption, Latent Heat, Scanning Strategy, and Powder Packing. Materials, 2019, 12, 808.	2.9	92
24	Inverse identification of Johnson-Cook material constants based on modified chip formation model and iterative gradient search using temperature and force measurements. International Journal of Advanced Manufacturing Technology, 2019, 102, 2865-2876.	3.0	56
25	A comparative study of analytical thermal models to predict the orthogonal cutting temperature of AISI 1045 steel. International Journal of Advanced Manufacturing Technology, 2019, 102, 3109-3119.	3.0	38
26	Analytical modeling of machining forces of ultra-fine-grained titanium. International Journal of Advanced Manufacturing Technology, 2019, 101, 627-636.	3.0	43
27	Model-driven determination of Johnson-Cook material constants using temperature and force measurements. International Journal of Advanced Manufacturing Technology, 2018, 97, 1053-1060.	3.0	52
28	Evaluation of an Analytical Model in the Prediction of Machining Temperature of AISI 1045 Steel and AISI 4340 Steel. Journal of Manufacturing and Materials Processing, 2018, 2, 74.	2.2	16
29	Thermal Modeling of Temperature Distribution in Metal Additive Manufacturing Considering Effects of Build Layers, Latent Heat, and Temperature-Sensitivity of Material Properties. Journal of Manufacturing and Materials Processing, 2018, 2, 63.	2.2	61
30	Prediction of Temperature Distribution in Orthogonal Machining Based on the Mechanics of the Cutting Process Using a Constitutive Model. Journal of Manufacturing and Materials Processing, 2018, 2, 37.	2.2	31
31	Inverse determination of Johnson–Cook model constants of ultra-fine-grained titanium based on chip formation model and iterative gradient search. International Journal of Advanced Manufacturing Technology, 2018, 99, 1131-1140.	3.0	94