

# Hantang Qin

## List of Publications by Year in descending order

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49  
papers

1,005  
citations

393982

19  
h-index

454577

30  
g-index

53  
all docs

53  
docs citations

53  
times ranked

881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Numerical Investigation on Radial Stiffness of Origami-Inspired Tubular Structures. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	1.1	7
2	Development of a shelf-stable, gel-based delivery system for probiotics by encapsulation, 3D printing, and freeze-drying. LWT - Food Science and Technology, 2022, 157, 113075.	2.5	25
3	Electric Field Assisted Direct Writing and 3D Printing of Low-Melting Alloy. Advanced Engineering Materials, 2022, 24, .	1.6	3
4	Property-structure-process relationships in dissimilar material repair with directed energy deposition: Repairing gray cast iron using stainless steel 316L. Journal of Manufacturing Processes, 2022, 81, 27-34.	2.8	6
5	An integrated manufacturing strategy to fabricate delivery system using gelatin/alginate hybrid hydrogels: 3D printing and freeze-drying. Food Hydrocolloids, 2021, 111, 106262.	5.6	63
6	Development of methylcellulose-based sustained-release dosage by semisolid extrusion additive manufacturing in drug delivery system. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 257-268.	1.6	13
7	Surface extraction from micro-computed tomography data for additive manufacturing. Procedia Manufacturing, 2021, 53, 568-575.	1.9	3
8	In-situ monitoring of Direct Energy Deposition via Structured Light System and its application in remanufacturing industry. Procedia Manufacturing, 2021, 53, 64-71.	1.9	3
9	Effects of Lyophilization on the Release Profiles of 3D Printed Delivery Systems Fabricated with Carboxymethyl Cellulose Hydrogel. Polymers, 2021, 13, 749.	2.0	4
10	Fabrication of silver microstructures via electrohydrodynamic inkjet printing as customizable X-ray marker in bio-structure for biomedical diagnostic imaging. International Journal of Advanced Manufacturing Technology, 2021, 114, 241-250.	1.5	8
11	CFD-based numerical modeling to predict the dimensions of printed droplets in electrohydrodynamic inkjet printing. Journal of Manufacturing Processes, 2021, 66, 125-132.	2.8	23
12	Modeling and Experimental Validation of Droplet Generation in Electrohydrodynamic Inkjet Printing for Prediction of Printing Quality. , 2021, , .		0
13	In situ monitoring of direct energy deposition via structured light system and its application in remanufacturing industry. International Journal of Advanced Manufacturing Technology, 2021, 116, 959-974.	1.5	9
14	Similarity evaluation of 3D surface topography measurements. Measurement Science and Technology, 2021, 32, 125003.	1.4	6
15	Properties and microstructure of extrusion-based 3D printing mortar containing a highly flowable, rapid set grout. Cement and Concrete Composites, 2021, 124, 104243.	4.6	15
16	Similarity quantification of 3D surface topography measurements. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110207.	2.5	3
17	Quantifying quality of 3D printed clay objects using a 3D structured light scanning system. Additive Manufacturing, 2020, 32, 100987.	1.7	16
18	Similarity evaluation of topography measurement results by different optical metrology technologies for additive manufactured parts. Optics and Lasers in Engineering, 2020, 126, 105920.	2.0	21

#	ARTICLE	IF	CITATIONS
19	3D printing of extended-release tablets of theophylline using hydroxypropyl methylcellulose (HPMC) hydrogels. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119983.	2.6	84
20	Effects of Nozzle Geometries on 3D Printing of Clay Constructs: Quantifying Contour Deviation and Mechanical Properties. <i>Procedia Manufacturing</i> , 2020, 48, 678-683.	1.9	22
21	Activation and Assembly of Plasmonic-Magnetic Nanosurfactants for Encapsulation and Triggered Release. <i>Nano Letters</i> , 2020, 20, 8773-8780.	4.5	18
22	Correlation approach for quality assurance of additive manufactured parts based on optical metrology. <i>Journal of Manufacturing Processes</i> , 2020, 53, 310-317.	2.8	30
23	Characterizing cement mixtures for concrete 3D printing. <i>Manufacturing Letters</i> , 2020, 24, 33-37.	1.1	32
24	Electrohydrodynamic inkjet printing of Polydimethylsiloxane (PDMS). <i>Procedia Manufacturing</i> , 2020, 48, 90-94.	1.9	12
25	Printability of a Cellulose Derivative for Extrusion-Based 3D Printing: The Application on a Biodegradable Support Material. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	28
26	Study effects of particle size in metal nanoink for electrohydrodynamic inkjet printing through analysis of droplet impact behaviors. <i>Journal of Manufacturing Processes</i> , 2020, 56, 1270-1276.	2.8	19
27	Similarity evaluation of 3D topological measurement results using statistical methods. , 2020, , .		2
28	Finite Element Method (FEM) Based Simulation of Continuous Laser Ablation: Surface Temperature and Depth Profile Evolution. , 2020, , .		0
29	Fabrication of micro-scale radiation shielding structures using tungsten nanoink through electrohydrodynamic inkjet printing. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 115004.	1.5	9
30	Evaluation of cement paste containing recycled stainless steel powder for sustainable additive manufacturing. <i>Construction and Building Materials</i> , 2019, 227, 116696.	3.2	20
31	Laser Ablation of Polymers: A Review. <i>Procedia Manufacturing</i> , 2019, 34, 316-327.	1.9	40
32	3D Printing and Characterization of Hydroxypropyl Methylcellulose and Methylcellulose for Biodegradable Support Structures. <i>Procedia Manufacturing</i> , 2019, 34, 552-559.	1.9	22
33	In-situ monitoring of electrohydrodynamic inkjet printing via scalar diffraction for printed droplets. <i>Journal of Manufacturing Systems</i> , 2019, 53, 1-10.	7.6	5
34	In-process monitoring of electrohydrodynamic inkjet printing using machine vision. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	6
35	Laser ablation of polymers: a review. <i>Polymer International</i> , 2019, 68, 1391-1401.	1.6	114
36	3D printing and characterization of hydroxypropyl methylcellulose and methylcellulose for biodegradable support structures. <i>Polymer</i> , 2019, 173, 119-126.	1.8	29

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37	An Area-Depth Approximation Model of Microdrilling on High-Density Polyethylene Soft Films Using Pulsed Laser Ablation. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.8	4
38	Surface Roughness Measurement of Additive Manufactured Parts Using Focus Variation Microscopy and Structured Light System. , 2019, , .		2
39	Printability Of Hydrogel Composites Using Extrusion-Based 3D Printing And Post-Processing With Calcium Chloride. <i>Food Science &amp; Nutrition</i> , 2019, 5, 1-5.	0.3	3
40	Machine vision assisted micro-filament detection for real-time monitoring of electrohydrodynamic inkjet printing. <i>Procedia Manufacturing</i> , 2018, 26, 29-39.	1.9	11
41	In-situ real-time characterization of micro-filaments for electrohydrodynamic ink-jet printing using machine vision. <i>Procedia Manufacturing</i> , 2018, 17, 45-52.	1.9	6
42	AC-pulse modulated electrohydrodynamic jet printing and electroless copper deposition for conductive microscale patterning on flexible insulating substrates. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017, 43, 179-187.	6.1	43
43	Direct Printing and Electrical Characterization of Conductive Micro-Silver Tracks by Alternating Current-Pulse Modulated Electrohydrodynamic Jet Printing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, .	1.3	22
44	Direct Printing of Capacitive Touch Sensors on Flexible Substrates by Additive E-Jet Printing With Silver Nanoinks. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, .	1.3	33
45	Fabrication and electrical characterization of multi-layer capacitive touch sensors on flexible substrates by additive e-jet printing. <i>Journal of Manufacturing Processes</i> , 2017, 28, 479-485.	2.8	31
46	Drop-on-demand E-jet printing of continuous interconnects with AC-pulse modulation on highly insulating substrates. <i>Journal of Manufacturing Systems</i> , 2015, 37, 505-510.	7.6	37
47	Electrohydrodynamic Jet Printing of Silver Seeds: Micro Scale Patterning by Electroless Copper Deposition. , 2015, , .		4
48	High-resolution ac-pulse modulated electrohydrodynamic jet printing on highly insulating substrates. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 045010.	1.5	83
49	AC-pulse modulated electrohydrodynamic (EHD) direct printing of conductive micro silver tracks for micro-manufacturing. , 2014, , .		6