Hantang Qin

List of Publications by Year
in descending order

49	1,005	393982	454577
papers	citations	19 h-index	30 g-index

53	53	53	881
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laser ablation of polymers: a review. Polymer International, 2019, 68, 1391-1401.	1.6	114
2	3D printing of extended-release tablets of theophylline using hydroxypropyl methylcellulose (HPMC) hydrogels. International Journal of Pharmaceutics, 2020, 591, 119983.	2.6	84
3	High-resolution ac-pulse modulated electrohydrodynamic jet printing on highly insulating substrates. Journal of Micromechanics and Microengineering, 2014, 24, 045010.	1.5	83
4	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
5	AC-pulse modulated electrohydrodynamic jet printing and electroless copper deposition for conductive microscale patterning on flexible insulating substrates. Robotics and Computer-Integrated Manufacturing, 2017, 43, 179-187.	6.1	43
6	Laser Ablation of Polymers: A Review. Procedia Manufacturing, 2019, 34, 316-327.	1.9	40
7	Drop-on-demand E-jet printing of continuous interconnects with AC-pulse modulation on highly insulating substrates. Journal of Manufacturing Systems, 2015, 37, 505-510.	7.6	37
8	Direct Printing of Capacitive Touch Sensors on Flexible Substrates by Additive E-Jet Printing With Silver Nanoinks. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	1.3	33
9	Characterizing cement mixtures for concrete 3D printing. Manufacturing Letters, 2020, 24, 33-37.	1.1	32
10	Fabrication and electrical characterization of multi-layer capacitive touch sensors on flexible substrates by additive e-jet printing. Journal of Manufacturing Processes, 2017, 28, 479-485.	2.8	31
11	Correlation approach for quality assurance of additive manufactured parts based on optical metrology. Journal of Manufacturing Processes, 2020, 53, 310-317.	2.8	30
12	3D printing and characterization of hydroxypropyl methylcellulose and methylcellulose for biodegradable support structures. Polymer, 2019, 173, 119-126.	1.8	29
13	Printability of a Cellulose Derivative for Extrusion-Based 3D Printing: The Application on a Biodegradable Support Material. Frontiers in Materials, 2020, 7, .	1.2	28
14	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
15	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
16	Direct Printing and Electrical Characterization of Conductive Micro-Silver Tracks by Alternating Current-Pulse Modulated Electrohydrodynamic Jet Printing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	1.3	22
17	3D Printing and Characterization of Hydroxypropyl Methylcellulose and Methylcellulose for Biodegradable Support Structures. Procedia Manufacturing, 2019, 34, 552-559.	1.9	22
18	Effects of Nozzle Geometries on 3D Printing of Clay Constructs: Quantifying Contour Deviation and Mechanical Properties. Procedia Manufacturing, 2020, 48, 678-683.	1.9	22

#	Article	IF	Citations
19	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
20	Evaluation of cement paste containing recycled stainless steel powder for sustainable additive manufacturing. Construction and Building Materials, 2019, 227, 116696.	3.2	20
21	Study effects of particle size in metal nanoink for electrohydrodynamic inkjet printing through analysis of droplet impact behaviors. Journal of Manufacturing Processes, 2020, 56, 1270-1276.	2.8	19
22	Activation and Assembly of Plasmonic-Magnetic Nanosurfactants for Encapsulation and Triggered Release. Nano Letters, 2020, 20, 8773-8780.	4.5	18
23	Quantifying quality of 3D printed clay objects using a 3D structured light scanning system. Additive Manufacturing, 2020, 32, 100987.	1.7	16
24	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
25	Development of methylcelluloseâ€based sustainedâ€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
26	Electrohydrodynamic inkjet printing of Polydimethylsiloxane (PDMS). Procedia Manufacturing, 2020, 48, 90-94.	1.9	12
27	Machine vision assisted micro-filament detection for real-time monitoring of electrohydrodynamic inkjet printing. Procedia Manufacturing, 2018, 26, 29-39.	1.9	11
28	Fabrication of micro-scale radiation shielding structures using tungsten nanoink through electrohydrodynamic inkjet printing. Journal of Micromechanics and Microengineering, 2019, 29, 115004.	1.5	9
29	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
30	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
31	Experimental and Numerical Investigation on Radial Stiffness of Origami-Inspired Tubular Structures. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	1.1	7
32	In-situ real-time characterization of micro-filaments for electrohydrodynamic ink-jet printing using machine vision. Procedia Manufacturing, 2018, 17, 45-52.	1.9	6
33	In-process monitoring of electrohydrodynamic inkjet printing using machine vision. AIP Conference Proceedings, 2019, , .	0.3	6
34	Similarity evaluation of 3D surface topography measurements. Measurement Science and Technology, 2021, 32, 125003.	1.4	6
35	AC-pulse modulated electrohydrodynamic (EHD) direct printing of conductive micro silver tracks for micro-manufacturing. , 2014, , .		6
36	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

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37	In-situ monitoring of electrohydrodynamic inkjet printing via scalar diffraction for printed droplets. Journal of Manufacturing Systems, 2019, 53, 1-10.	7.6	5
38	Electrohydrodynamic Jet Printing of Silver Seeds: Micro Scale Patterning by Electroless Copper Deposition. , 2015, , .		4
39	Effects of Lyophilization on the Release Profiles of 3D Printed Delivery Systems Fabricated with Carboxymethyl Cellulose Hydrogel. Polymers, 2021, 13, 749.	2.0	4
40	An Area-Depth Approximation Model of Microdrilling on High-Density Polyethylene Soft Films Using Pulsed Laser Ablation. Journal of Micro and Nano-Manufacturing, 2019, 7, .	0.8	4
41	Surface extraction from micro-computed tomography data for additive manufacturing. Procedia Manufacturing, 2021, 53, 568-575.	1.9	3
42	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
43	Similarity quantification of 3D surface topography measurements. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110207.	2.5	3
44	Printability Of Hydrogel Composites Using Extrusion-Based 3D Printing And Post-Processing With Calcium Chloride. Food Science & Nutrition, 2019, 5, 1-5.	0.3	3
45	Electric Field Assisted Direct Writing and 3D Printing of Lowâ€Melting Alloy. Advanced Engineering Materials, 2022, 24, .	1.6	3
46	Surface Roughness Measurement of Additive Manufactured Parts Using Focus Variation Microscopy and Structured Light System. , 2019, , .		2
47	Similarity evaluation of 3D topological measurement results using statistical methods. , 2020, , .		2
48	Modeling and Experimental Validation of Droplet Generation in Electrohydrodynamic Inkjet Printing for Prediction of Printing Quality. , 2021, , .		0
49	Finite Element Method (FEM) Based Simulation of Continuous Laser Ablation: Surface Temperature and Depth Profile Evolution. , 2020, , .		0