# Chi Zhou

## List of Publications by Year
in descending order

| | | |
|---|---|---|
| **73** papers | **3,230** citations | 257450 **24** h-index |
| **75** all docs | **75** docs citations | **75** times ranked |

155660 **55** g-index

**3961** citing authors

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Hybrid-Light-Source Stereolithography for Fabricating Macro-Objects With Micro-Textures. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, . | 2.2 | 6 |
| 2 | Printing Air-Stable High-Tc Molecular Magnet with Tunable Magnetic Interaction. Nano Letters, 2022, 22, 545-553. | 9.1 | 4 |
| 3 | A predictive multiphase model of silica aerogels for building envelope insulations. Computational Mechanics, 2022, 69, 1457-1479. | 4.0 | 2 |
| 4 | High temperature ceramic thermal insulation material. Nano Research, 2022, 15, 6662-6669. | 10.4 | 12 |
| 5 | Wearable Aramidâ€"Ceramic Aerogel Composite for Harsh Environment. Advanced Engineering Materials, 2021, 23, 2001169. | 3.5 | 20 |
| 6 | Fast Stereolithography Printing of Largeâ€Scale Biocompatible Hydrogel Models. Advanced Healthcare Materials, 2021, 10, e2002103. | 7.6 | 48 |
| 7 | Online droplet anomaly detection from streaming videos in inkjet printing. Additive Manufacturing, 2021, 38, 101835. | 3.0 | 5 |
| 8 | 3D Bioprinting: Fast Stereolithography Printing of Largeâ€Scale Biocompatible Hydrogel Models (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 T | 7.6 | 1 |
| 9 | Proton switching molecular magnetoelectricity. Nature Communications, 2021, 12, 4602. | 12.8 | 10 |
| 10 | Spatiotemporal Projectionâ€Based Additive Manufacturing: A Dataâ€Driven Image Planning Method for Subpixel Shifting in a Split Second. Advanced Intelligent Systems, 2021, 3, 2100079. | 6.1 | 7 |
| 11 | Highâ€Performance Flexible Schottky DC Generator via Metal/Conducting Polymer Sliding Contacts. Advanced Functional Materials, 2021, 31, 2103132. | 14.9 | 43 |
| 12 | Emerging investigator series: 3D printed graphene-biopolymer aerogels for water contaminant removal: a proof of concept. Environmental Science: Nano, 2021, 8, 399-414. | 4.3 | 22 |
| 13 | Cost-Effective Additive Manufacturing of Ambient Pressure-Dried Silica Aerogel. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, . | 2.2 | 28 |
| 14 | Recent advances in ink-based additive manufacturing for porous structures. Additive Manufacturing, 2021, 48, 102405. | 3.0 | 14 |
| 15 | SonicFace. , 2021, 5, 1-33. | | 2 |
| 16 | Converse piezoelectric behavior of three-dimensionally printed polymer and comparison of the in-plane and out-of-plane behavior. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 252, 114447. | 3.5 | 3 |
| 17 | The impact of build orientation policies on the completion time in two-dimensional irregular packing for additive manufacturing. International Journal of Production Research, 2020, 58, 6601-6615. | 7.5 | 14 |
| 18 | Cyber coordinated simulation for distributed multi-stage additive manufacturing systems. Journal of Manufacturing Systems, 2020, 57, 61-71. | 13.9 | 13 |

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|---|---------|-----|-----------|
| 19 | A 3D-printed molecular ferroelectric metamaterial. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27204-27210. | 7.1 | 25 |
| 20 | Ductile cooling phase change material. Nanoscale Advances, 2020, 2, 3900-3905. | 4.6 | 7 |
| 21 | Flexible and printable dielectric polymer composite with tunable permittivity and thermal stability. Chemical Communications, 2020, 56, 2332-2335. | 4.1 | 12 |
| 22 | All-Printed Conformal High-Temperature Electronics on Flexible Ceramics. ACS Applied Electronic Materials, 2020, 2, 556-562. | 4.3 | 11 |
| 23 | Unsupervised learning for the droplet evolution prediction and process dynamics understanding in inkjet printing. Additive Manufacturing, 2020, 35, 101197. | 3.0 | 25 |
| 24 | Nearest Neighbor Gaussian Process Emulation for Multi-Dimensional Array Responses in Freeze Nano 3D Printing of Energy Devices. Journal of Computing and Information Science in Engineering, 2020, 20, . | 2.7 | 8 |
| 25 | Geometric Deep Learning for Shape Correspondence in Mass Customization by Three-Dimensional Printing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, . | 2.2 | 7 |
| 26 | Cyclic Stretching of Fibrotic Microtissue Array for Evaluation of Anti-Fibrosis Drugs. Cellular and Molecular Bioengineering, 2019, 12, 529-540. | 2.1 | 8 |
| 27 | Surfel convolutional neural network for support detection in additive manufacturing. International Journal of Advanced Manufacturing Technology, 2019, 105, 3593-3604. | 3.0 | 16 |
| 28 | 3D Printing of Ultrahigh Strength Continuous Carbon Fiber Composites. Advanced Engineering Materials, 2019, 21, 1800622. | 3.5 | 69 |
| 29 | Decreasing the shearâ€‰stress-induced in-plane molecular alignment by unprecedented stereolithographic delay in three-dimensional printing. Journal of Materials Science, 2019, 54, 3586-3599. | 3.7 | 5 |
| 30 | Online droplet monitoring in inkjet 3D printing using catadioptric stereo system. IISE Transactions, 2019, 51, 153-167. | 2.4 | 7 |
| 31 | A variable neighborhood search based genetic algorithm for flexible job shop scheduling problem. Cluster Computing, 2019, 22, 11561-11572. | 5.0 | 47 |
| 32 | Prediction and Experimental Validation of Part Thermal History in the Fused Filament Fabrication Additive Manufacturing Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, . | 2.2 | 24 |
| 33 | Tool Path Planning for Directional Freezing-Based Three-Dimensional Printing of Nanomaterials. Journal of Micro and Nano-Manufacturing, 2018, 6, . | 0.7 | 6 |
| 34 | Part decomposition and assembly-based (Re) design for additive manufacturing: A review. Additive Manufacturing, 2018, 22, 230-242. | 3.0 | 54 |
| 35 | Piezoelectric behavior of three-dimensionally printed acrylate polymer without filler or poling. Journal of Materials Science, 2018, 53, 6819-6830. | 3.7 | 15 |
| 36 | First observation of the effect of the layer printing sequence on the molecular structure of three-dimensionally printed polymer, as shown by in-plane capacitance measurement. Composites Part B: Engineering, 2018, 140, 78-82. | 12.0 | 14 |

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|---|---------|-----|-----------|
| 37 | Three-Dimensional Printing Hollow Polymer Template-Mediated Graphene Lattices with Tailorable Architectures and Multifunctional Properties. ACS Nano, 2018, 12, 1096-1106. | 14.6 | 82 |
| 38 | Data-driven simulation for fast prediction of pull-up process in bottom-up stereo-lithography. CAD Computer Aided Design, 2018, 99, 29-42. | 2.7 | 20 |
| 39 | Effects of printing conditions on the molecular alignment of three-dimensionally printed polymer. Composites Part B: Engineering, 2018, 134, 164-168. | 12.0 | 28 |
| 40 | Phase change materials (PCM) based cold source for selective freezing 3D printing of porous materials. International Journal of Advanced Manufacturing Technology, 2018, 95, 2145-2155. | 3.0 | 13 |
| 41 | Enhancing the inherent piezoelectric behavior of a three-dimensionally printed acrylate polymer by electrical poling. Smart Materials and Structures, 2018, 27, 115038. | 3.5 | 4 |
| 42 | Production Planning for Mass Customization in Additive Manufacturing: Build Orientation Determination, 2D Packing and Scheduling. , 2018, , . | | 17 |
| 43 | Cyber-coordinated Simulation Models for Multi-stage Additive Manufacturing of Energy Products. , 2018, , . | | 1 |
| 44 | Recent Progress in Biomimetic Additive Manufacturing Technology: From Materials to Functional Structures. Advanced Materials, 2018, 30, e1706539. | 21.0 | 325 |
| 45 | Unprecedented sensing of interlayer defects in three-dimensionally printed polymer by capacitance measurement. Smart Materials and Structures, 2018, 27, 115012. | 3.5 | 8 |
| 46 | In-situ droplet inspection and closed-loop control system using machine learning for liquid metal jet printing. Journal of Manufacturing Systems, 2018, 47, 83-92. | 13.9 | 76 |
| 47 | Part decomposition and 2D batch placement in single-machine additive manufacturing systems. Journal of Manufacturing Systems, 2018, 48, 131-139. | 13.9 | 20 |
| 48 | Thermal Analysis of Directional Freezing Based Graphene Aerogel Three-Dimensional Printing Process. Journal of Micro and Nano-Manufacturing, 2017, 5, . | 0.7 | 8 |
| 49 | Image-Based Slicing and Tool Path Planning for Hybrid Stereolithography Additive Manufacturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, . | 2.2 | 11 |
| 50 | Mass Customization: Reuse of Digital Slicing for Additive Manufacturing. Journal of Computing and Information Science in Engineering, 2017, 17, . | 2.7 | 18 |
| 51 | Parameter Study of Three-Dimensional Printing Graphene Oxide Based on Directional Freezing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, . | 2.2 | 13 |
| 52 | 3D direct writing fabrication of electrodes for electrochemical storage devices. Journal of Power Sources, 2017, 354, 134-147. | 7.8 | 164 |
| 53 | Investigation of separation force for constrained-surface stereolithography process from mechanics perspective. Rapid Prototyping Journal, 2017, 23, 696-710. | 3.2 | 42 |
| 54 | Laser assisted additive manufacturing of continuous fiber reinforced thermoplastic composites. Materials and Design, 2017, 131, 186-195. | 7.0 | 85 |

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|---|---------|-----|-----------|
| 55 | Metallic Aerogels: 3D Printing Hierarchical Silver Nanowire Aerogel with Highly Compressive Resilience and Tensile Elongation through Tunable Poisson's Ratio (Small 38/2017). Small, 2017, 13, . | 10.0 | 0 |
| 56 | 3D printing technologies for electrochemical energy storage. Nano Energy, 2017, 40, 418-431. | 16.0 | 351 |
| 57 | Frozen â€œTofuâ€•Effect: Engineered Pores of Hydrophilic Nanoporous Materials. ACS Omega, 2017, 2, 4838-4844. | 3.5 | 7 |
| 58 | An Open Source Framework for Integrated Additive Manufacturing and Level-Set-Based Topology Optimization. Journal of Computing and Information Science in Engineering, 2017, 17, . | 2.7 | 33 |
| 59 | 3D Printing Hierarchical Silver Nanowire Aerogel with Highly Compressive Resilience and Tensile Elongation through Tunable Poisson's Ratio. Small, 2017, 13, 1701756. | 10.0 | 68 |
| 60 | In-situ Droplet Inspection and Control System for Liquid Metal Jet 3D Printing Process. Procedia Manufacturing, 2017, 10, 968-981. | 1.9 | 31 |
| 61 | Effect of stress on the capacitance and electric permittivity of three-dimensionally printed polymer, with relevance to capacitance-based stress monitoring. Sensors and Actuators A: Physical, 2017, 263, 380-385. | 4.1 | 16 |
| 62 | LuBan. , 2017, , . | | 7 |
| 63 | 3D Printing of Graphene Aerogels. Small, 2016, 12, 1702-1708. | 10.0 | 427 |
| 64 | LISA: Linear immersed sweeping accumulation. Journal of Manufacturing Processes, 2016, 24, 406-415. | 5.9 | 18 |
| 65 | Mechanoâ€•Morphological Characterization of Polyethyleneâ€•Glycol Based Polyurethane Microgel. Macromolecular Materials and Engineering, 2016, 301, 1158-1171. | 3.6 | 7 |
| 66 | Pbench: a benchmark suite for characterizing 3D printing prefabrication. , 2016, , . | | 3 |
| 67 | Separation force analysis and prediction based on cohesive element model for constrained-surface Stereolithography processes. CAD Computer Aided Design, 2015, 69, 134-142. | 2.7 | 66 |
| 68 | 3D stereolithography printing of graphene oxide reinforced complex architectures. Nanotechnology, 2015, 26, 434003. | 2.6 | 177 |
| 69 | A Direct Tool Path Planning Algorithm for Line Scanning Based Stereolithography. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, . | 2.2 | 9 |
| 70 | Digital material fabrication using maskâ€•imageâ€•projectionâ€•based stereolithography. Rapid Prototyping Journal, 2013, 19, 153-165. | 3.2 | 204 |
| 71 | A Fast Mask Projection Stereolithography Process for Fabricating Digital Models in Minutes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, . | 2.2 | 126 |
| 72 | Additive manufacturing based on optimized mask video projection for improved accuracy and resolution. Journal of Manufacturing Processes, 2012, 14, 107-118. | 5.9 | 76 |

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|---|---------|----|-----------|
| 73 | Optimized Mask Image Projection for Solid Freeform Fabrication. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, . | 2.2 | 51 |