

# Zhengyi Song

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5740665/publications.pdf>

Version: 2024-02-01

20  
papers

630  
citations

567281

15  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Process Parameter Optimization of Extrusion-Based 3D Metal Printing Utilizing PWA€“LDPE€“SA Binder System. <i>Materials</i> , 2017, 10, 305.	2.9	78
2	Biomimetic Shape€“Color Double€“Responsive 4D Printing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900293.	5.8	73
3	Programming Shape-Morphing Behavior of Liquid Crystal Elastomers via Parameter-Encoded 4D Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15562-15572.	8.0	70
4	Bringing Hetero€“Polyacid€“Based Underwater Adhesive as Printable Cathode Coating for Self€“Powered Electrochromic Aqueous Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1800599.	14.9	57
5	Biomimetic Nonuniform, Dual-Stimuli Self-Morphing Enabled by Gradient Four-Dimensional Printing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 6351-6361.	8.0	54
6	Graded biological materials and additive manufacturing technologies for producing bioinspired graded materials: An overview. <i>Composites Part B: Engineering</i> , 2022, 242, 110086.	12.0	42
7	Biology and bioinspiration of soft robotics: Actuation, sensing, and system integration. <i>IScience</i> , 2021, 24, 103075.	4.1	34
8	3D magnetic printing of bio-inspired composites with tunable mechanical properties. <i>Journal of Materials Science</i> , 2018, 53, 14274-14286.	3.7	28
9	4D printing of core€“shell hydrogel capsules for smart controlled drug release. <i>Bio-Design and Manufacturing</i> , 2022, 5, 294-304.	7.7	28
10	Programming Multistage Shape Memory and Variable Recovery Force with 4D Printing Parameters. <i>Advanced Materials Technologies</i> , 2019, 4, 1900535.	5.8	27
11	3D printing of structural gradient soft actuators by variation of bioinspired architectures. <i>Journal of Materials Science</i> , 2019, 54, 6542-6551.	3.7	24
12	A 3D micromechanical study of hygroscopic coiling deformation in <i>Pelargonium</i> seed: from material and mechanics perspective. <i>Journal of Materials Science</i> , 2017, 52, 415-430.	3.7	21
13	Thermal Metamaterials with Site€“specific Thermal Properties Fabricated by 3D Magnetic Printing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900296.	5.8	21
14	Printability Optimization of Gelatin-Alginate Bioinks by Cellulose Nanofiber Modification for Potential Meniscus Bioprinting. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-13.	2.7	19
15	Advances in Field€“Assisted 3D Printing of Bio€“Inspired Composites: From Bioprototyping to Manufacturing. <i>Macromolecular Bioscience</i> , 2022, 22, e2100332.	4.1	19
16	3D Printing of Auxetic Metamaterials with High€“Temperature and Programmable Mechanical Properties. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	15
17	A study on the tubular composite with tunable compression mechanical behavior inspired by wood cell. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 89, 132-142.	3.1	7
18	3D Printing of Bioinspired Structural Materials with Fibers Induced by Doctor Blading Process. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 89-99.	4.9	6

#	ARTICLE	IF	CITATIONS
19	Programmable 4D Printing of Bioinspired Solvent-Driven Morphing Composites. <i>Advanced Materials Technologies</i> , 2021, 6, 2001289.	5.8	6
20	Tunable shape memory effect and omnidirectional shape change of polyetheretherketone. <i>Journal of Materials Science</i> , 2022, 57, 4850-4861.	3.7	1