Jun Yin

List of Publications by Year
in descending order

67 papers	3,384 citations	218677 26 h-index	149698 56 g-index
68 all docs	68 docs citations	68 times ranked	3949 citing authors

#	Article	IF	Citations
1	3D Bioprinting of Low-Concentration Cell-Laden Gelatin Methacrylate (GelMA) Bioinks with a Two-Step Cross-linking Strategy. ACS Applied Materials & Interfaces, 2018, 10, 6849-6857.	8.0	417
2	Metal-Coordination Complexes Mediated Physical Hydrogels with High Toughness, Stickâ€“Slip Tearing Behavior, and Good Processability. Macromolecules, 2016, 49, 9637-9646.	4.8	320
3	3D Printing of Multifunctional Hydrogels. Advanced Functional Materials, 2019, 29, 1900971.	14.9	225
4	Interfacial bonding during multi-material fused deposition modeling (FDM) process due to inter-molecular diffusion. Materials and Design, 2018, 150, 104-112.	7.0	194
5	A Mechanically Robust and Versatile Liquidâ€Free Ionic Conductive Elastomer. Advanced Materials, 2021, 33, e2006111.	21.0	188
6	Programmed Deformations of 3Dâ€Printed Tough Physical Hydrogels with High Response Speed and Large Output Force. Advanced Functional Materials, 2018, 28, 1803366.	14.9	172
7	Evaluation of bioink printability for bioprinting applications. Applied Physics Reviews, 2018, 5, .	11.3	129
8	3D printing of biomimetic multi-layered GelMA/nHA scaffold for osteochondral defect repair. Materials and Design, 2019, 171, 107708.	7.0	127
9	Fabrication of liver microtissue with liver decellularized extracellular matrix (dECM) bioink by digital light processing (DLP) bioprinting. Materials Science and Engineering C, 2020, 109, 110625.	7.3	126
10	Interpenetrating polymer network hydrogels composed of chitosan and photocrosslinkable gelatin with enhanced mechanical properties for tissue engineering. Materials Science and Engineering C, 2018, 92, 612-620.	7.3	120
11	3D Printing of Ultratough Polyion Complex Hydrogels. ACS Applied Materials & Interfaces, 2016, 8, 31304-31310.	8.0	105
12	Accelerating solar desalination in brine through ion activated hierarchically porous polyion complex hydrogels. Materials Horizons, 2020, 7, 3187-3195.	12.2	99
13	Tough and Conductive Hybrid Hydrogels Enabling Facile Patterning. ACS Applied Materials & Interfaces, 2018, 10, 13685-13692.	8.0	82
14	Nanoclay-Based Self-Supporting Responsive Nanocomposite Hydrogels for Printing Applications. ACS Applied Materials & Interfaces, 2018, 10, 10461-10470.	8.0	79
15	The influence of the stiffness of GelMA substrate on the outgrowth of PC12 cells. Bioscience Reports, 2019, 39, .	2.4	65
16	Direct 3D printing of a tough hydrogel incorporated with carbon nanotubes for bone regeneration. Journal of Materials Chemistry B, 2019, 7, 7207-7217.	5.8	62
17	Constitutive behaviors of tough physical hydrogels with dynamic metal-coordinated bonds. Journal of the Mechanics and Physics of Solids, 2020, 139, 103935.	4.8	56
18	High-fidelity and high-efficiency additive manufacturing using tunable pre-curing digital light processing. Additive Manufacturing, 2019, 30, 100889.	3.0	46

#	Article	IF	Citations
19	Additive-lathe 3D bioprinting of bilayered nerve conduits incorporated with supportive cells. Bioactive Materials, 2021, 6, 219-229.	15.6	45
20	Processing tough supramolecular hydrogels with tunable strength of polyion complex. Polymer, 2016, 95, 9-17.	3.8	43
21	3D-Printed Ultratough Hydrogel Structures with Titin-like Domains. ACS Applied Materials & Interfaces, 2017, 9, 11363-11367.	8.0	39
22	Theoretical prediction and experimental validation of the digital light processing (DLP) working curve for photocurable materials. Additive Manufacturing, 2021, 37, 101716.	3.0	36
23	The influence of thyroarytenoid and cricothyroid muscle activation on vocal fold stiffness and eigenfrequencies. Journal of the Acoustical Society of America, 2013, 133, 2972-2983.	1.1	34
24	Polyacrylonitrile Nerve Conduits With Inner Longitudinal Grooved Textures to Enhance Neuron Directional Outgrowth. Journal of Microelectromechanical Systems, 2018, 27, 457-463.	2.5	32
25	Integrated multifunctional flexible electronics based on tough supramolecular hydrogels with patterned silver nanowires. Journal of Materials Chemistry C, 2020, 8, 7688-7697.	5.5	32
26	Biofabrication of aligned structures that guide cell orientation and applications in tissue engineering. Bio-Design and Manufacturing, 2021, 4, 258-277.	7.7	32
27	Experimental investigation of aligned groove formation on the inner surface of polyacrylonitrile hollow fiber membrane. Journal of Membrane Science, 2012, 394-395, 57-68.	8.2	24
28	Trends on physical understanding of bioink printability. Bio-Design and Manufacturing, 2019, 2, 50-54.	7.7	22
29	3D printing of a tough double-network hydrogel and its use as a scaffold to construct a tissue-like hydrogel composite. Journal of Materials Chemistry B, 2022, 10, 468-476.	5.8	22
30	Suspension printing of liquid metal in yield-stress fluid for resilient 3D constructs with electromagnetic functions. Npj Flexible Electronics, 2022, 6, .	10.7	22
31	Glucosamineâ€grafted methacrylated gelatin hydrogels as potential biomaterials for cartilage repair. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 990-999.	3.4	19
32	Computational study of extrusion bioprinting with jammed gelatin microgel-based composite ink. Additive Manufacturing, 2021, 41, 101963.	3.0	19
33	Drop-on-demand (DOD) inkjet dynamics of printing viscoelastic conductive ink. Additive Manufacturing, 2021, 48, 102451.	3.0	19
34	The influence of cross-sectional morphology on the compressive resistance of polymeric nerve conduits. Polymer, 2018, 148, 93-100.	3.8	18
35	Physical understanding of axonal growth patterns on grooved substrates: groove ridge crossing versus longitudinal alignment. Bio-Design and Manufacturing, 2020, 3, 348-360.	7.7	17
36	Human nail bed extracellular matrix facilitates bone regenerationviamacrophage polarization mediated by the JAK2/STAT3 pathway. Journal of Materials Chemistry B, 2020, 8, 4067-4079.	5.8	17

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37	Solventâ€Castâ€Assisted Printing of Biomimetic Morphing Hydrogel Structures with Solvent Evaporationâ€Induced Swelling Mismatch. Advanced Functional Materials, 2022, 32, 2108548.	14.9	17
38	Porous morphology and mechanical properties of poly(lactide-co-glycolide) hollow fiber membranes governed by ternary-phase inversion. Journal of Membrane Science, 2019, 579, 180-189.	8.2	16
39	Effect of Cyclic Stretch on Neuron Reorientation and Axon Outgrowth. Frontiers in Bioengineering and Biotechnology, 2020, 8, 597867.	4.1	16
40	Efficacy of Large Groove Texture on Rat Sciatic Nerve Regeneration In Vivo Using Polyacrylonitrile Nerve Conduits. Annals of Biomedical Engineering, 2021, 49, 394-406.	2.5	16
41	Controllable Bending of Bi-hydrogel Strips with Differential Swelling. Acta Mechanica Solida Sinica, 2019, 32, 652-662.	1.9	15
42	Role of Marangoni Instability in Fabrication of Axially and Internally Grooved Hollow Fiber Membranes. Langmuir, 2010, 26, 16991-16999.	3.5	14
43	Additive nanomanufacturing of lab-on-a-chip fluorescent peptide nanoparticle arrays for Alzheimerâ€™s disease diagnosis. Bio-Design and Manufacturing, 2018, 1, 182-194.	7.7	14
44	3D Printed Multi-material Medical Phantoms for Needle-tissue Interaction Modelling of Heterogeneous Structures. Journal of Bionic Engineering, 2021, 18, 346-360.	5.0	14
45	Fabrication of a dual-layer cell-laden tubular scaffold for nerve regeneration and bile duct reconstruction. Biofabrication, 2021, 13, 035038.	7.1	12
46	A versatile embedding medium for freeform bioprinting with multi-crosslinking methods. Biofabrication, 2022, 14, 035022.	7.1	12
47	Programmable Deformations of Biomimetic Composite Hydrogels Embedded with Printed Fibers. ACS Applied Materials & Interfaces, 2020, 12, 57497-57504.	8.0	11
48	Laryngeal muscular control of vocal fold posturing: Numerical modeling and experimental validation. Journal of the Acoustical Society of America, 2016, 140, EL280-EL284.	1.1	10
49	Effect of Electrical and Electromechanical Stimulation on PC12 Cell Proliferation and Axon Outgrowth. Frontiers in Bioengineering and Biotechnology, 2021, 9, 757906.	4.1	10
50	Fabrication of Inner Grooved Hollow Fiber Membranes Using Microstructured Spinneret for Nerve Regeneration. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	2.2	9
51	3D printing topographic cues for cell contact guidance: a review. Materials and Design, 2022, , 110663.	7.0	9
52	A hierarchical vascularized engineered bone inspired by intramembranous ossification for mandibular regeneration. International Journal of Oral Science, 2022, 14, .	8.6	9
53	Utility of three-dimensional printing in preoperative planning for children with anomalous pulmonary venous connection: a single center experience. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1804-1814.	2.0	8
54	Industry news: the additive manufacturing of nerve conduits for the treatment of peripheral nerve injury. Bio-Design and Manufacturing, 0, , 1.	7.7	8

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55	Groove Formation Modeling in Fabricating Hollow Fiber Membrane for Nerve Regeneration. Journal of Applied Mechanics, Transactions ASME, 2011, 78, .	2.2	7
56	Theoretical model of pediatric orbital trapdoor fractures and provisional personalized 3D printing-assisted surgical solution. Bioactive Materials, 2021, 6, 559-567.	15.6	7
57	Effect of bore fluid composition on poly(lactic-co-glycolic acid) hollow fiber membranes fabricated by dry-jet wet spinning. Journal of Membrane Science, 2021, 640, 119784.	8.2	7
58	3D printing of tough hydrogels based on metal coordination with a two-step crosslinking strategy. Journal of Materials Chemistry B, 2022, 10, 2126-2134.	5.8	7
59	Study of Process-Induced Cell Membrane Stability in Cell Direct Writing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	2.2	6
60	Numerical study of axonal outgrowth in grooved nerve conduits. Journal of Neural Engineering, 2012, 9, 056001.	3.5	6
61	A dual-layer cell-laden tubular scaffold for bile duct regeneration. Materials and Design, 2021, 212, 110229.	7.0	5
62	Promotion of Adrenal Pheochromocytoma (PC-12) Cell Proliferation and Outgrowth Using Schwann Cell-Laden Gelatin Methacrylate Substrate. Gels, 2022, 8, 84.	4.5	5
63	Investigation of Inner Surface Groove Formation Under Radially Inward Pressure During Immersion Precipitation-Based Hollow Fiber Membrane Fabrication. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	2.2	4
64	Biointerfaces Mediated by Molecular Bonds: Cohesive Behaviors. International Journal of Applied Mechanics, 2016, 08, 1650040.	2.2	4
65	The influence of thyroarytenoid and cricothyroid muscle activation on vocal fold stiffness and eigenfrequencies. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
66	Soft Electroporation Through 3D Hollow Nanoelectrodes. Methods in Molecular Biology, 2020, 2050, 13-19.	0.9	1
67	An anisotropic immerse precipitation process for the preparation of polymer membranes. Soft Matter, 2022, , .	2.7	0