Yu Shrike Zhang

List of Publications by Year
in descending order

333 papers	27,179 citations	5569 82 h-index	7340 152 g-index
348 all docs	348 docs citations	348 times ranked	28453 citing authors

#	Article	IF	Citations
1	3D bioprinted organâ€onâ€chips. Aggregate, 2023, 4, .	5.2	35
2	3D-bioprinted cancer-on-a-chip: level-up organotypic in vitro models. Trends in Biotechnology, 2022, 40, 432-447.	4.9	36
3	A 3Dâ€Bioprinted Multiple Myeloma Model. Advanced Healthcare Materials, 2022, 11, e2100884.	3.9	14
4	Microfluidic Coaxial Bioprinting of Hollow, Standalone, and Perfusable Vascular Conduits. Methods in Molecular Biology, 2022, 2375, 61-75.	0.4	1
5	Tumor-on-a-chip devices for cancer immunotherapy. , 2022, , 155-195.		1
6	Facile fabrication of a biocompatible composite gel with sustained release of aspirin for bone regeneration. Bioactive Materials, 2022, 11, 130-139.	8.6	45
7	Digital Light Processing Based Bioprinting with Composable Gradients. Advanced Materials, 2022, 34, e2107038.	11.1	71
8	A Bioinspired Hemostatic Powder Derived from the Skin Secretion of Andrias davidianus for Rapid Hemostasis and Intraoral Wound Healing. Small, 2022, 18, e2101699.	5.2	31
9	Imiquimod-gemcitabine nanoparticles harness immune cells to suppress breast cancer. Biomaterials, 2022, 280, 121302.	5.7	23
10	Customizable Microfluidic Origami Liverâ€onâ€aâ€Chip (oLOC). Advanced Materials Technologies, 2022, 7, 2100677.	3.0	9
11	Emerging microfluidics-enabled platforms for osteoarthritis management: from benchtop to bedside. Theranostics, 2022, 12, 891-909.	4.6	9
12	Strategies towards kidney tissue biofabrication. Current Opinion in Biomedical Engineering, 2022, 21, 100362.	1.8	4
13	Functional biomaterials. APL Bioengineering, 2022, 6, 010401.	3.3	4
14	Biomimetic models of the glomerulus. Nature Reviews Nephrology, 2022, 18, 241-257.	4.1	22
15	Conformation-driven strategy for resilient and functional protein materials. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	21
16	Digital Light Processing Based Bioprinting with Composable Gradients (Adv. Mater. 1/2022). Advanced Materials, 2022, 34, .	11.1	6
17	Photoacoustic imaging of 3D-printed vascular networks. Biofabrication, 2022, 14, 025001.	3.7	7
18	Bioinspired Andrias davidianus-Derived wound dressings for localized drug-elution. Bioactive Materials, 2022, 15, 482-494.	8.6	9

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19	Freeform cell-laden cryobioprinting for shelf-ready tissue fabrication and storage. Matter, 2022, 5, 573-593.	5.0	36
20	Vertical Extrusion Cryo(bio)printing for Anisotropic Tissue Manufacturing. Advanced Materials, 2022, 34, e2108931.	11.1	36
21	3D Bioprinting for Liver Regeneration. , 2022, , 459-488.		0
22	The era of translational nanomedicine. , 2022, 1, 9130006.		4
23	A CMOS Cellular Interface Array for Digital Physiology Featuring High-Density Multi-Modal Pixels and Reconfigurable Sampling Rate. , 2022, , .		1
24	Drawnâ€onâ€Skin Sensors from Fully Biocompatible Inks toward Highâ€Quality Electrophysiology. Small, 2022, 18, .	5.2	12
25	Biosurfactant-Stabilized Micropore-Forming GelMA Inks Enable Improved Usability for 3D Printing Applications. Regenerative Engineering and Translational Medicine, 2022, 8, 471-481.	1.6	6
26	3D Printing of Monolithic Proteinaceous Cantilevers Using Regenerated Silk Fibroin. Molecules, 2022, 27, 2148.	1.7	7
27	A Natural Hydrogel with Prohealing Properties Enhances Tendon Regeneration. Small, 2022, 18, e2105255.	5.2	21
28	Culture of cancer spheroids and evaluation of anti-cancer drugs in 3D-printed miniaturized continuous stirred tank reactors (mCSTRs). Biofabrication, 2022, 14, 035007.	3.7	5
29	3D-printable colloidal photonic crystals. Materials Today, 2022, 56, 29-41.	8.3	61
30	A multifunctional micropore-forming bioink with enhanced anti-bacterial and anti-inflammatory properties. Biofabrication, 2022, 14, 024105.	3.7	19
31	Ceramic Toughening Strategies for Biomedical Applications. Frontiers in Bioengineering and Biotechnology, 2022, 10, 840372.	2.0	14
32	Vascularizing the brain inÂvitro. IScience, 2022, 25, 104110.	1.9	13
33	Uniaxial and Coaxial Vertical Embedded Extrusion Bioprinting. Advanced Healthcare Materials, 2022, 11, e2102411.	3.9	15
34	Introduction to advanced functional nanomaterials for biomedical applications. Nanoscale, 2022, 14, 7441-7443.	2.8	4
35	Biomaterials for bioprinting. , 2022, , 51-86.		2
36	Target receptor identification and subsequent treatment of resected brain tumors with encapsulated and engineered allogeneic stem cells. Nature Communications, 2022, 13, 2810.	5.8	10

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37	Microporeâ€Forming Gelatin Methacryloyl (GelMA) Bioink Toolbox 2.0: Designable Tunability and Adaptability for 3D Bioprinting Applications. Small, 2022, 18, .	5.2	31
38	Patient-derived microphysiological model identifies the therapeutic potential of metformin for thoracic aortic aneurysm. EBioMedicine, 2022, 81, 104080.	2.7	4
39	Co-axial printing of convoluted proximal tubule for kidney disease modeling. Biofabrication, 2022, 14, 044102.	3.7	7
40	Molecularly cleavable bioinks facilitate high-performance digital light processing-based bioprinting of functional volumetric soft tissues. Nature Communications, 2022, 13, .	5.8	43
41	Artificial Intelligenceâ€Assisted Highâ€Throughput Screening of Printing Conditions of Hydrogel Architectures for Accelerated Diabetic Wound Healing. Advanced Functional Materials, 2022, 32, .	7.8	21
42	Composite Inks for Extrusion Printing of Biological and Biomedical Constructs. ACS Biomaterials Science and Engineering, 2021, 7, 4009-4026.	2.6	30
43	Injectable, self-healing, antibacterial, and hemostatic N,O-carboxymethyl chitosan/oxidized chondroitin sulfate composite hydrogel for wound dressing. Materials Science and Engineering C, 2021, 118, 111324.	3.8	111
44	Designable dual-power micromotors fabricated from a biocompatible gas-shearing strategy. Chemical Engineering Journal, 2021, 407, 127187.	6.6	29
45	Bioprinting of Small-Diameter Blood Vessels. Engineering, 2021, 7, 832-844.	3.2	37
46	A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. Small, 2021, 17, e2004258.	5.2	57
47	Organ-on-a-chip platforms for accelerating the evaluation of nanomedicine. Bioactive Materials, 2021, 6, 1012-1027.	8.6	67
48	Studying endothelial cell shedding and orientation using adaptive perfusionâ€culture in a microfluidic vascular chip. Biotechnology and Bioengineering, 2021, 118, 963-978.	1.7	4
49	Self-targeting visualizable hyaluronate nanogel for synchronized intracellular release of doxorubicin and cisplatin in combating multidrug-resistant breast cancer. Nano Research, 2021, 14, 846-857.	5.8	117
50	Symbiotic Photosynthetic Oxygenation within 3D-Bioprinted Vascularized Tissues. Matter, 2021, 4, 217-240.	5.0	57
51	Modeling aortic diseases using induced pluripotent stem cells. Stem Cells Translational Medicine, 2021, 10, 190-197.	1.6	5
52	CRL4DCAF8 dependent opposing stability control over the chromatin remodeler LSH orchestrates epigenetic dynamics in ferroptosis. Cell Death and Differentiation, 2021, 28, 1593-1609.	5.0	18
53	Colorimetric loop-mediated isothermal amplification (LAMP) for cost-effective and quantitative detection of SARS-CoV-2: the change in color in LAMP-based assays quantitatively correlates with viral copy number. Analytical Methods, 2021, 13, 169-178.	1.3	42
54	Exosomes targeted towards applications in regenerative medicine. Nano Select, 2021, 2, 880-908.	1.9	12

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55	Cellularized polymeric microarchitectures for drug screening. Smart Materials in Medicine, 2021, 2, 96-113.	3.7	2
56	SARS-CoV-2-related vascular injury: mechanisms, imaging and models. Microphysiological Systems, 2021, 5, 1-1.	2.0	4
57	Circulatory shear stress induces molecular changes and side population enrichment in primary tumor-derived lung cancer cells with higher metastatic potential. Scientific Reports, 2021, 11, 2800.	1.6	16
58	Colloidal Photonic Crystals for Biomedical Applications. Small Structures, 2021, 2, 2000110.	6.9	47
59	3D human nonalcoholic hepatic steatosis and fibrosis models. Bio-Design and Manufacturing, 2021, 4, 157-170.	3.9	20
60	Targeting Hypoxic Tumors with Hybrid Nanobullets for Oxygen-Independent Synergistic Photothermal andÂThermodynamic Therapy. Nano-Micro Letters, 2021, 13, 99.	14.4	64
61	Organâ€onâ€aâ€Chip: A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). Small, 2021, 17, 2170070.	5.2	0
62	Microfluidic integration of regeneratable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices. Nature Protocols, 2021, 16, 2564-2593.	5.5	80
63	Sprayable hydrogel dressing accelerates wound healing with combined reactive oxygen species-scavenging and antibacterial abilities. Acta Biomaterialia, 2021, 124, 219-232.	4.1	179
64	Attacking COVID-19 Progression Using Multi-Drug Therapy for Synergetic Target Engagement. Biomolecules, 2021, 11, 787.	1.8	14
65	Recent Progress in Antimicrobial Strategies for Resin-Based Restoratives. Polymers, 2021, 13, 1590.	2.0	26
66	Freezeâ€Casting with 3Dâ€Printed Templates Creates Anisotropic Microchannels and Patterned Macrochannels within Biomimetic Nanofiber Aerogels for Rapid Cellular Infiltration. Advanced Healthcare Materials, 2021, 10, e2100238.	3.9	33
67	Platforms for Personalized Polytherapeutics Discovery in COVID-19. Journal of Molecular Biology, 2021, 433, 166945.	2.0	4
68	High-Throughput and Continuous Chaotic Bioprinting of Spatially Controlled Bacterial Microcosms. ACS Biomaterials Science and Engineering, 2021, 7, 2408-2419.	2.6	23
69	Reversed-engineered human alveolar lung-on-a-chip model. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	144
70	Engineering (Bio)Materials through Shrinkage and Expansion. Advanced Healthcare Materials, 2021, 10, e2100380.	3.9	15
71	Antiviral biomaterials. Matter, 2021, 4, 1892-1918.	5.0	26
72	Deep image prior for undersampling high-speed photoacoustic microscopy. Photoacoustics, 2021, 22, 100266.	4.4	33

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73	Enhanced electric-field-induced strains in (K,Na)NbO3 piezoelectrics from heterogeneous structures. Materials Today, 2021, 46, 44-53.	8.3	36
74	A hemostatic sponge derived from skin secretion of Andrias davidianus and nanocellulose. Chemical Engineering Journal, 2021, 416, 129136.	6.6	46
75	An oxidative stress-responsive electrospun polyester membrane capable of releasing anti-bacterial and anti-inflammatory agents for postoperative anti-adhesion. Journal of Controlled Release, 2021, 335, 359-368.	4.8	42
76	The potential of microfluidics-enhanced extrusion bioprinting. Biomicrofluidics, 2021, 15, 041304.	1.2	19
77	A Smartphoneâ€Enabled Portable Digital Light Processing 3D Printer. Advanced Materials, 2021, 33, e2102153.	11.1	45
78	Universal Peptide Hydrogel for Scalable Physiological Formation and Bioprinting of 3D Spheroids from Human Induced Pluripotent Stem Cells. Advanced Functional Materials, 2021, 31, 2104046.	7.8	13
79	Leveraging synthesis-swelling relationship to precisely engineer synthetic hydrogels. Matter, 2021, 4, 2676-2678.	5.0	4
80	Handheld bioprinting strategies for in situ wound dressing. Essays in Biochemistry, 2021, 65, 533-543.	2.1	12
81	Nanotechnologies and Nanomaterials in 3D (Bio)printing toward Bone Regeneration. Advanced NanoBiomed Research, 2021, 1, 2100035.	1.7	11
82	Bridging the academia-to-industry gap: organ-on-a-chip platforms for safety and toxicology assessment. Trends in Pharmacological Sciences, 2021, 42, 715-728.	4.0	26
83	Nature-derived bionanomaterials for sustained release of 5-fluorouracil to inhibit subconjunctival fibrosis. Materials Today Advances, 2021, 11, 100150.	2.5	16
84	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. Frontiers in Bioengineering and Biotechnology, 2021, 9, 732130.	2.0	11
85	State-of-art affordable bioprinters: A guide for the DiY community. Applied Physics Reviews, 2021, 8, .	5.5	17
86	A Smartphoneâ€Enabled Portable Digital Light Processing 3D Printer (Adv. Mater. 35/2021). Advanced Materials, 2021, 33, 2170271.	11.1	1
87	Minimally invasive co-injection of modular micro-muscular and micro-vascular tissues improves in situ skeletal muscle regeneration. Biomaterials, 2021, 277, 121072.	5.7	12
88	Deep learning-enabled resolution-enhancement in mini- and regular microscopy for biomedical imaging. Sensors and Actuators A: Physical, 2021, 331, 112928.	2.0	4
89	Recent advances of microneedles used towards stimuli-responsive drug delivery, disease theranostics, and bioinspired applications. Chemical Engineering Journal, 2021, 426, 130561.	6.6	58
90	Emerging Technologies in Multiâ€Material Bioprinting. Advanced Materials, 2021, 33, e2104730.	11.1	100

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91	High-resolution lithographic biofabrication of hydrogels with complex microchannels from low-temperature-soluble gelatin bioresins. Materials Today Bio, 2021, 12, 100162.	2.6	38
92	3D extrusion bioprinting. Nature Reviews Methods Primers, 2021, 1, .	11.8	127
93	Programmable microbial ink for 3D printing of living materials produced from genetically engineered protein nanofibers. Nature Communications, 2021, 12, 6600.	5.8	52
94	Organic light-emitting diode microdisplay-enabled scalable visible-light 3D printing. Matter, 2021, 4, 3794-3797.	5.0	5
95	Association Between Implementation of the Severe Sepsis and Septic Shock Early Management Bundle Performance Measure and Outcomes in Patients With Suspected Sepsis in US Hospitals. JAMA Network Open, 2021, 4, e2138596.	2.8	28
96	Smart transformable nanoparticles for enhanced tumor theranostics. Applied Physics Reviews, 2021, 8, .	5.5	99
97	Endothelialized microrods for minimally invasive in situ neovascularization. Biofabrication, 2020, 12, 015011.	3.7	7
98	Liverâ€onâ€aâ€Chip Models of Fatty Liver Disease. Hepatology, 2020, 71, 733-740.	3.6	67
99	A Modular, Reconfigurable Microfabricated Assembly Platform for Microfluidic Transport and Multitype Cell Culture and Drug Testing. Micromachines, 2020, 11, 2.	1.4	14
100	An open-source handheld extruder loaded with pore-forming bioink for in situ wound dressing. Materials Today Bio, 2020, 8, 100074.	2.6	52
101	T cells participate in bone remodeling during the rapid palatal expansion. FASEB Journal, 2020, 34, 15327-15337.	0.2	15
102	Improving Bioprinted Volumetric Tumor Microenvironments In Vitro. Trends in Cancer, 2020, 6, 745-756.	3.8	38
103	3D bioprinting of glioblastoma models. Journal of 3D Printing in Medicine, 2020, 4, 113-125.	1.0	17
104	ACEI/ARB therapy in COVID-19: the double-edged sword of ACE2 and SARS-CoV-2 viral docking. Critical Care, 2020, 24, 475.	2.5	27
105	Biomaterial Inks. Advanced Healthcare Materials, 2020, 9, e2001043.	3.9	2
106	Efficiently Enhanced Tripletâ€“Triplet Annihilation Upconversion Boosted by Multibandgaps Photonic Crystals. Journal of Physical Chemistry C, 2020, 124, 18482-18489.	1.5	7
107	Modeling Endothelialized Hepatic Tumor Microtissues for Drug Screening. Advanced Science, 2020, 7, 2002002.	5.6	40
108	Dissolvable Microneedles Coupled with Nanofiber Dressings Eradicate Biofilms via Effectively Delivering a Database-Designed Antimicrobial Peptide. ACS Nano, 2020, 14, 11775-11786.	7.3	129

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109	The Delivery of Extracellular Vesicles Loaded in Biomaterial Scaffolds for Bone Regeneration. Frontiers in Bioengineering and Biotechnology, 2020, 8, 1015.	2.0	35
110	Bioprinted Injectable Hierarchically Porous Gelatin Methacryloyl Hydrogel Constructs with Shapeâ€Memory Properties. Advanced Functional Materials, 2020, 30, 2003740.	7.8	122
111	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Colorâ€Tunable Barcoding. Small, 2020, 16, e1907586.	5.2	41
112	Ultraviolet Radiant Energy-Dependent Functionalization Regulates Cellular Behavior on Titanium Dioxide Nanodots. ACS Applied Materials & Interfaces, 2020, 12, 31793-31803.	4.0	5
113	Advancements in Hydrogel-Based Drug Sustained Release Systems for Bone Tissue Engineering. Frontiers in Pharmacology, 2020, 11, 622.	1.6	55
114	A hepatocellular carcinomaâ€“bone metastasis-on-a-chip model for studying thymoquinone-loaded anticancer nanoparticles. Bio-Design and Manufacturing, 2020, 3, 189-202.	3.9	36
115	Functionalizing Double-Network Hydrogels for Applications in Remote Actuation and in Low-Temperature Strain Sensing. ACS Applied Materials & Interfaces, 2020, 12, 30247-30258.	4.0	93
116	Recent Advances in Formulating and Processing Biomaterial Inks for Vat Polymerizationâ€Based 3D Printing. Advanced Healthcare Materials, 2020, 9, e2000156.	3.9	128
117	3D Immunocompetent Organâ€onâ€aâ€Chip Models. Small Methods, 2020, 4, 2000235.	4.6	40
118	High-throughput single-cell analysis of exosome mediated dual drug delivery, in vivo fate and synergistic tumor therapy. Nanoscale, 2020, 12, 13742-13756.	2.8	26
119	Complexation-induced resolution enhancement of 3D-printed hydrogel constructs. Nature Communications, 2020, 11, 1267.	5.8	158
120	Engineering in vitro human tissue models through bio-design and manufacturing. Bio-Design and Manufacturing, 2020, 3, 155-159.	3.9	29
121	Kill two birds with one stone: A novel dual-functional nanobiomaterial platform with a clear translational potential for bone regeneration. Nano Research, 2020, 13, 2311-2312.	5.8	0
122	Hyaluronic Acid (HA)â€Based Silk Fibroin/Zinc Oxide Coreâ€“Shell Electrospun Dressing for Burn Wound Management. Macromolecular Bioscience, 2020, 20, e1900328.	2.1	110
123	Electrospun nanofibers for the delivery of active drugs through nasal, oral and vaginal mucosa: Current status and future perspectives. Materials Science and Engineering C, 2020, 111, 110756.	3.8	73
124	Gambogic acid augments black phosphorus quantum dots (BPQDs)-based synergistic chemo-photothermal therapy through downregulating heat shock protein expression. Chemical Engineering Journal, 2020, 390, 124312.	6.6	86
125	A Transparent, Wearable Fluorescent Mouthguard for Highâ€Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites. Advanced Materials, 2020, 32, e2000060.	11.1	26
126	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. Biofabrication, 2020, 12, 035023.	3.7	43

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127	The Delivery of RNA-Interference Therapies Based on Engineered Hydrogels for Bone Tissue Regeneration. Frontiers in Bioengineering and Biotechnology, 2020, 8, 445.	2.0	23
128	Investigating lymphangiogenesis in a sacrificially bioprinted volumetric model of breast tumor tissue. Methods, 2020, 190, 72-79.	1.9	28
129	Vascular Tissue Engineering: The Role of 3D Bioprinting. , 2020, , 321-338.		6
130	Fabrication of paper-based devices for in vitro tissue modeling. Bio-Design and Manufacturing, 2020, 3, 252-265.	3.9	11
131	Biomaterials for on-chip organ systems. , 2020, , 669-707.		5
132	Mechanical force-driven TNFÎ± endocytosis governs stem cell homeostasis. Bone Research, 2020, 8, 44.	5.4	13
133	Expanding sacrificially printed microfluidic channel-embedded paper devices for construction of volumetric tissue models in vitro. Biofabrication, 2020, 12, 045027.	3.7	20
134	DNA methylation and demethylation link the properties of mesenchymal stem cells: Regeneration and immunomodulation. World Journal of Stem Cells, 2020, 12, 351-358.	1.3	14
135	Vascular Tissue Engineering: The Role of 3D Bioprinting. , 2020, , 1-18.		0
136	Nanocomposites: A Transparent, Wearable Fluorescent Mouthguard for Highâ€Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites (Adv. Mater. 21/2020). Advanced Materials, 2020, 32, 2070162.	11.1	0
137	Seven-year follow-up of the nonsurgical expansion of maxillary and mandibular arches in a young adult: A case report. World Journal of Clinical Cases, 2020, 8, 5371-5379.	0.3	1
138	Effects of the multifunctional hormone leptin on orthodontic tooth movement in rats. American Journal of Translational Research (discontinued), 2020, 12, 1976-1984.	0.0	1
139	Bioreactors for Cardiac Tissue Engineering. Advanced Healthcare Materials, 2019, 8, e1701504.	3.9	51
140	Hydrogel Bioink with Multilayered Interfaces Improves Dispersibility of Encapsulated Cells in Extrusion Bioprinting. ACS Applied Materials & Interfaces, 2019, 11, 30585-30595.	4.0	27
141	Bioprinting: A Tumorâ€onâ€aâ€Chip System with Bioprinted Blood and Lymphatic Vessel Pair (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT	7.8	1
142	3D bioprinting for oncology applications. Journal of 3D Printing in Medicine, 2019, 3, 55-58.	1.0	24
143	Tough Bonding, Onâ€Demand Debonding, and Facile Rebonding between Hydrogels and Diverse Metal Surfaces. Advanced Materials, 2019, 31, e1904732.	11.1	98
144	Modeling and experimental investigation of polymer micropart demolding from a Zrâ€based bulk metallic glass mold. Polymer Engineering and Science, 2019, 59, 2202-2210.	1.5	3

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145	Coaxial Extrusion of Tubular Tissue Constructs Using a Gelatin/GelMA Blend Bioink. ACS Biomaterials Science and Engineering, 2019, 5, 5514-5524.	2.6	55
146	Decorating 3D Printed Scaffolds with Electrospun Nanofiber Segments for Tissue Engineering. Advanced Biology, 2019, 3, e1900137.	3.0	23
147	A Tetra-PEG Hydrogel Based Aspirin Sustained Release System Exerts Beneficial Effects on Periodontal Ligament Stem Cells Mediated Bone Regeneration. Frontiers in Chemistry, 2019, 7, 682.	1.8	39
148	Inhibition of Tet1- and Tet2-mediated DNA demethylation promotes immunomodulation of periodontal ligament stem cells. Cell Death and Disease, 2019, 10, 780.	2.7	27
149	Fabrication of Thymoquinoneâ€Loaded Albumin Nanoparticles by Microfluidic Particle Synthesis and Their Effect on Planarian Regeneration. Macromolecular Bioscience, 2019, 19, e1900182.	2.1	15
150	BSCI-16. HEMODYNAMIC SHEAR STRESS SELECTS A SUBPOPULATION OF LUNG ADENOCARCINOMA CELLS WITH HIGHER METASTATIC CAPACITY. Neuro-Oncology Advances, 2019, 1, i4-i4.	0.4	0
151	The Tumor-on-Chip: Recent Advances in the Development of Microfluidic Systems to Recapitulate the Physiology of Solid Tumors. Materials, 2019, 12, 2945.	1.3	103
152	A miniaturized optical tomography platform for volumetric imaging of engineered living systems. Lab on A Chip, 2019, 19, 550-561.	3.1	14
153	A Foreign Body Responseâ€onâ€aâ€Chip Platform. Advanced Healthcare Materials, 2019, 8, e1801425.	3.9	51
154	3Dâ€Bioprinted Miniâ€Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. Advanced Materials, 2019, 31, e1806590.	11.1	168
155	An injectable self-healing coordinative hydrogel with antibacterial and angiogenic properties for diabetic skin wound repair. NPG Asia Materials, 2019, 11, .	3.8	260
156	A Bioinspired Medical Adhesive Derived from Skin Secretion of Andrias davidianus for Wound Healing. Advanced Functional Materials, 2019, 29, 1809110.	7.8	121
157	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). Small, 2019, 15, 1970126.	5.2	84
158	Perforated and Endothelialized Elastomeric Tubes for Vascular Modeling. Advanced Materials Technologies, 2019, 4, 1800741.	3.0	3
159	Surface Modification by Divalent Main-Group-Elemental Ions for Improved Bone Remodeling To Instruct Implant Biofabrication. ACS Biomaterials Science and Engineering, 2019, 5, 3311-3324.	2.6	15
160	Highly Porous Microcarriers for Minimally Invasive In Situ Skeletal Muscle Cell Delivery. Small, 2019, 15, e1901397.	5.2	77
161	Macrophage inhibits the osteogenesis of fibroblasts in ultrahigh molecular weight polyethylene (UHMWPE) wear particle-induced osteolysis. Journal of Orthopaedic Surgery and Research, 2019, 14, 80.	0.9	12
162	Effective bioprinting resolution in tissue model fabrication. Lab on A Chip, 2019, 19, 2019-2037.	3.1	148

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163	Generation of Cost-Effective Paper-Based Tissue Models through Matrix-Assisted Sacrificial 3D Printing. Nano Letters, 2019, 19, 3603-3611.	4.5	45
164	Osteosarcoma Therapy: Inhibition of CaMKIIÎ± Activity Enhances Antitumor Effect of Fullerene C60 Nanocrystals by Suppression of Autophagic Degradation (Adv. Sci. 8/2019). Advanced Science, 2019, 6, 1970051.	5.6	0
165	3D Bioprinting: from Benches to Translational Applications. Small, 2019, 15, e1805510.	5.2	235
166	A Tumorâ€onâ€aâ€Chip System with Bioprinted Blood and Lymphatic Vessel Pair. Advanced Functional Materials, 2019, 29, 1807173.	7.8	121
167	Sacrificial Bioprinting of a Mammary Ductal Carcinoma Model. Biotechnology Journal, 2019, 14, 1700703.	1.8	28
168	Cancer Modeling: 3Dâ€Bioprinted Miniâ€Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics (Adv. Mater. 14/2019). Advanced Materials, 2019, 31, 1970101.	11.1	0
169	A medical mini-me one day your doctor could prescribe drugs based on now a biochip version of you reacts. IEEE Spectrum, 2019, 56, 44-49.	0.5	4
170	Acetylsalicylic acid rescues the immunomodulation of inflamed gingiva-derived mesenchymal stem cells via upregulating FasL in mice. Stem Cell Research and Therapy, 2019, 10, 368.	2.4	11
171	Accuracy of a 3-Dimensionally Printed Navigational Template for Localizing Small Pulmonary Nodules. JAMA Surgery, 2019, 154, 295.	2.2	24
172	Fractureâ€Resistant and Bioresorbable Drugâ€Eluting Poly(glycerol Sebacate) Coils. Advanced Therapeutics, 2019, 2, 1800109.	1.6	7
173	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. Advanced Healthcare Materials, 2019, 8, e1801146.	3.9	54
174	Invited Article: Emerging soft bioelectronics for cardiac health diagnosis and treatment. APL Materials, 2019, 7, 031301.	2.2	37
175	Microfluidic technologies for local drug delivery. , 2019, , 281-305.		5
176	Vascularized 3D printed scaffolds for promoting bone regeneration. Biomaterials, 2019, 190-191, 97-110.	5.7	345
177	Digital Breast Tomosynthesis imaging using compressed sensing based reconstruction for 10 radiation doses real data. Biomedical Signal Processing and Control, 2019, 48, 26-34.	3.5	8
178	Towards the development of human immune-system-on-a-chip platforms. Drug Discovery Today, 2019, 24, 517-525.	3.2	75
179	Supercritical Fluidâ€Assisted Porous Microspheres for Efficient Delivery of Insulin and Inhalation Therapy of Diabetes. Advanced Healthcare Materials, 2019, 8, e1800910.	3.9	26
180	Bioinks for 3D bioprinting: an overview. Biomaterials Science, 2018, 6, 915-946.	2.6	828

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