Yu Shrike Zhang

List of Publications by Year
in descending order

333	27,179	5574 82	7348 152
papers	citations	h-index	g-index

348	348	348	28453
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in engineering hydrogels. Science, 2017, 356, .	12.6	1,836
2	Engineered Nanoparticles for Drug Delivery in Cancer Therapy. Angewandte Chemie - International Edition, 2014, 53, 12320-12364.	13.8	1,447
3	Bioinks for 3D bioprinting: an overview. Biomaterials Science, 2018, 6, 915-946.	5.4	828
4	Direct 3D bioprinting of perfusable vascular constructs using a blend bioink. Biomaterials, 2016, 106, 58-68.	11.4	727
5	Bioprinting 3D microfibrous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. Biomaterials, 2016, 110, 45-59.	11.4	699
6	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2293-E2302.	7.1	570
7	Comparison Study of Gold Nanohexapods, Nanorods, and Nanocages for Photothermal Cancer Treatment. ACS Nano, 2013, 7, 2068-2077.	14.6	557
8	Graphene-based materials for tissue engineering. Advanced Drug Delivery Reviews, 2016, 105, 255-274.	13.7	537
9	3D Bioprinting for Tissue and Organ Fabrication. Annals of Biomedical Engineering, 2017, 45, 148-163.	2.5	507
10	Cell-laden hydrogels for osteochondral and cartilage tissue engineering. Acta Biomaterialia, 2017, 57, 1-25.	8.3	490
11	A liver-on-a-chip platform with bioprinted hepatic spheroids. Biofabrication, 2016, 8, 014101.	7.1	466
12	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. Scientific Reports, 2017, 7, 8837.	3.3	407
13	Reduced Graphene Oxideâ€GelMA Hybrid Hydrogels as Scaffolds for Cardiac Tissue Engineering. Small, 2016, 12, 3677-3689.	10.0	385
14	Extrusion Bioprinting of Shearâ€Thinning Gelatin Methacryloyl Bioinks. Advanced Healthcare Materials, 2017, 6, 1601451.	7.6	352
15	Vascularized 3D printed scaffolds for promoting bone regeneration. Biomaterials, 2019, 190-191, 97-110.	11.4	345
16	Organ-on-a-chip platforms for studying drug delivery systems. Journal of Controlled Release, 2014, 190, 82-93.	9.9	308
17	Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs. Advanced Functional Materials, 2017, 27, 1605352.	14.9	278
18	Microfluidicsâ€Enabled Multimaterial Maskless Stereolithographic Bioprinting. Advanced Materials, 2018, 30, e1800242.	21.0	277

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19	Rapid Continuous Multimaterial Extrusion Bioprinting. Advanced Materials, 2017, 29, 1604630.	21.0	275
20	4D bioprinting: the next-generation technology for biofabrication enabled by stimuli-responsive materials. Biofabrication, 2017, 9, 012001.	7.1	271
21	An injectable self-healing coordinative hydrogel with antibacterial and angiogenic properties for diabetic skin wound repair. NPG Asia Materials, 2019, 11, .	7.9	260
22	Interplay between materials and microfluidics. Nature Reviews Materials, 2017, 2, .	48.7	236
23	An Advanced Multifunctional Hydrogelâ€Based Dressing for Wound Monitoring and Drug Delivery. Advanced Healthcare Materials, 2017, 6, 1700718.	7.6	236
24	3D Bioprinting: from Benches to Translational Applications. Small, 2019, 15, e1805510.	10.0	235
25	Coaxial extrusion bioprinting of 3D microfibrous constructs with cell-favorable gelatin methacryloyl microenvironments. Biofabrication, 2018, 10, 024102.	7.1	219
26	Aqueous Twoâ€Phase Emulsion Bioinkâ€Enabled 3D Bioprinting of Porous Hydrogels. Advanced Materials, 2018, 30, e1805460.	21.0	217
27	A Temperatureâ€Sensitive Drug Release System Based on Phaseâ€Change Materials. Angewandte Chemie - International Edition, 2010, 49, 7904-7908.	13.8	211
28	Glucoseâ€Sensitive Hydrogel Optical Fibers Functionalized with Phenylboronic Acid. Advanced Materials, 2017, 29, 1606380.	21.0	206
29	A Bioactive Carbon Nanotubeâ€Based Ink for Printing 2D and 3D Flexible Electronics. Advanced Materials, 2016, 28, 3280-3289.	21.0	199
30	Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues. Advanced Materials, 2018, 30, e1706913.	21.0	199
31	Evolution and clinical translation of drug delivery nanomaterials. Nano Today, 2017, 15, 91-106.	11.9	196
32	Bioprinting the Cancer Microenvironment. ACS Biomaterials Science and Engineering, 2016, 2, 1710-1721.	5.2	194
33	Mussel-Inspired Multifunctional Hydrogel Coating for Prevention of Infections and Enhanced Osteogenesis. ACS Applied Materials & Interfaces, 2017, 9, 11428-11439.	8.0	193
34	Supercritical Fluid Technology: An Emphasis on Drug Delivery and Related Biomedical Applications. Advanced Healthcare Materials, 2017, 6, 1700433.	7.6	186
35	Bioprinted thrombosis-on-a-chip. Lab on A Chip, 2016, 16, 4097-4105.	6.0	183
36	Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. Analytical Chemistry, 2016, 88, 10019-10027.	6.5	181

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37	Sprayable hydrogel dressing accelerates wound healing with combined reactive oxygen species-scavenging and antibacterial abilities. Acta Biomaterialia, 2021, 124, 219-232.	8.3	179
38	3Dâ€Bioprinted Miniâ€Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. Advanced Materials, 2019, 31, e1806590.	21.0	168
39	Circulating apoptotic bodies maintain mesenchymal stem cell homeostasis and ameliorate osteopenia via transferring multiple cellular factors. Cell Research, 2018, 28, 918-933.	12.0	165
40	Complexation-induced resolution enhancement of 3D-printed hydrogel constructs. Nature Communications, 2020, 11, 1267.	12.8	158
41	Spatially and temporally controlled hydrogels for tissue engineering. Materials Science and Engineering Reports, 2017, 119, 1-35.	31.8	151
42	Effective bioprinting resolution in tissue model fabrication. Lab on A Chip, 2019, 19, 2019-2037.	6.0	148
43	An injectable shear-thinning biomaterial for endovascular embolization. Science Translational Medicine, 2016, 8, 365ra156.	12.4	147
44	Reversed-engineered human alveolar lung-on-a-chip model. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	144
45	Three-dimensional bioprinting of gelatin methacryloyl (GelMA). Bio-Design and Manufacturing, 2018, 1, 215-224.	7.7	143
46	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. Biomaterials, 2017, 139, 163-171.	11.4	140
47	Electrically Driven Microengineered Bioinspired Soft Robots. Advanced Materials, 2018, 30, 1704189.	21.0	140
48	From cardiac tissue engineering to heart-on-a-chip: beating challenges. Biomedical Materials (Bristol), 2015, 10, 034006.	3.3	134
49	Automated microfluidic platform of bead-based electrochemical immunosensor integrated with bioreactor for continual monitoring of cell secreted biomarkers. Scientific Reports, 2016, 6, 24598.	3.3	132
50	Labelâ€Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes. Advanced Science, 2017, 4, 1600522.	11.2	131
51	Gold nanocages covered with thermally-responsive polymers for controlled release by high-intensity focused ultrasound. Nanoscale, 2011, 3, 1724.	5.6	130
52	Dissolvable Microneedles Coupled with Nanofiber Dressings Eradicate Biofilms <i>via</i> Effectively Delivering a Database-Designed Antimicrobial Peptide. ACS Nano, 2020, 14, 11775-11786.	14.6	129
53	Recent Advances in Formulating and Processing Biomaterial Inks for Vat Polymerizationâ€Based 3D Printing. Advanced Healthcare Materials, 2020, 9, e2000156.	7.6	128
54	Inverse Opal Scaffolds and Their Biomedical Applications. Advanced Materials, 2017, 29, 1701115.	21.0	127

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55	3D extrusion bioprinting. Nature Reviews Methods Primers, 2021, 1, .	21.2	127
56	Surface acoustic waves induced micropatterning of cells in gelatin methacryloyl (GelMA) hydrogels. Biofabrication, 2017, 9, 015020.	7.1	126
57	Cardiovascular Organ-on-a-Chip Platforms for Drug Discovery and Development. Applied in Vitro Toxicology, 2016, 2, 82-96.	1.1	124
58	Bioprinted Injectable Hierarchically Porous Gelatin Methacryloyl Hydrogel Constructs with Shapeâ€Memory Properties. Advanced Functional Materials, 2020, 30, 2003740.	14.9	122
59	A Bioinspired Medical Adhesive Derived from Skin Secretion of <i>Andrias davidianus</i> for Wound Healing. Advanced Functional Materials, 2019, 29, 1809110.	14.9	121
60	A Tumorâ€onâ€aâ€Chip System with Bioprinted Blood and Lymphatic Vessel Pair. Advanced Functional Materials, 2019, 29, 1807173.	14.9	121
61	Bioprinted 3D vascularized tissue model for drug toxicity analysis. Biomicrofluidics, 2017, 11, 044109.	2.4	120
62	Fabrication of Microbeads with a Controllable Hollow Interior and Porous Wall Using a Capillary Fluidic Device. Advanced Functional Materials, 2009, 19, 2943-2949.	14.9	118
63	Neovascularization in Biodegradable Inverse Opal Scaffolds with Uniform and Precisely Controlled Pore Sizes. Advanced Healthcare Materials, 2013, 2, 145-154.	7.6	117
64	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.	10.4	117
65	Paper-based microfluidic system for tear electrolyte analysis. Lab on A Chip, 2017, 17, 1137-1148.	6.0	111
66	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.	7.3	111
67	Hyaluronic Acid (HA)â€Based Silk Fibroin/Zinc Oxide Coreâ€"Shell Electrospun Dressing for Burn Wound Management. Macromolecular Bioscience, 2020, 20, e1900328.	4.1	110
68	A microfluidic optical platform for real-time monitoring of pH and oxygen in microfluidic bioreactors and organ-on-chip devices. Biomicrofluidics, 2016, 10, 044111.	2.4	109
69	Rapid prototyping of whole-thermoplastic microfluidics with built-in microvalves using laser ablation and thermal fusion bonding. Sensors and Actuators B: Chemical, 2018, 255, 100-109.	7.8	104
70	Kidney-on-a-chip: untapped opportunities. Kidney International, 2018, 94, 1073-1086.	5.2	104
71	The Tumor-on-Chip: Recent Advances in the Development of Microfluidic Systems to Recapitulate the Physiology of Solid Tumors. Materials, 2019, 12, 2945.	2.9	103
72	Cancer-on-a-chip systems at the frontier of nanomedicine. Drug Discovery Today, 2017, 22, 1392-1399.	6.4	102

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73	Low cost smart phone diagnostics for food using paper-based colorimetric sensor arrays. Food Control, 2017, 82, 227-232.	5.5	101
74	Emerging Technologies in Multiâ€Material Bioprinting. Advanced Materials, 2021, 33, e2104730.	21.0	100
75	Smart transformable nanoparticles for enhanced tumor theranostics. Applied Physics Reviews, 2021, 8, .	11.3	99
76	Tough Bonding, Onâ€Demand Debonding, and Facile Rebonding between Hydrogels and Diverse Metal Surfaces. Advanced Materials, 2019, 31, e1904732.	21.0	98
77	Fabrication of injectable and superelastic nanofiber rectangle matrices (â€œpeanutsâ€) and their potential applications in hemostasis. Biomaterials, 2018, 179, 46-59.	11.4	96
78	Locally Deployable Nanofiber Patch for Sequential Drug Delivery in Treatment of Primary and Advanced Orthotopic Hepatomas. ACS Nano, 2018, 12, 6685-6699.	14.6	95
79	Functionalizing Double-Network Hydrogels for Applications in Remote Actuation and in Low-Temperature Strain Sensing. ACS Applied Materials & Interfaces, 2020, 12, 30247-30258.	8.0	93
80	Labeling Human Mesenchymal Stem Cells with Gold Nanocages for <i>in vitro</i> and <i>in vivo</i> Tracking by Two-Photon Microscopy and Photoacoustic Microscopy. Theranostics, 2013, 3, 532-543.	10.0	92
81	A highly stretchable and robust non-fluorinated superhydrophobic surface. Journal of Materials Chemistry A, 2017, 5, 16273-16280.	10.3	89
82	Label-free photoacoustic microscopy of cytochromes. Journal of Biomedical Optics, 2013, 18, 020504.	2.6	87
83	A cost-effective fluorescence mini-microscope for biomedical applications. Lab on A Chip, 2015, 15, 3661-3669.	6.0	86
84	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.	12.7	86
85	Tet1 and Tet2 maintain mesenchymal stem cell homeostasis via demethylation of the P2rX7 promoter. Nature Communications, 2018, 9, 2143.	12.8	85
86	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). Small, 2019, 15, 1970126.	10.0	84
87	Microfluidic integration of regeneratable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices. Nature Protocols, 2021, 16, 2564-2593.	12.0	80
88	Elastomeric free-form blood vessels for interconnecting organs on chip systems. Lab on A Chip, 2016, 16, 1579-1586.	6.0	79
89	Protein/polysaccharideâ€based scaffolds mimicking native extracellular matrix for cardiac tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2018, 106, 769-781.	4.0	79
90	Highly Porous Microcarriers for Minimally Invasive In Situ Skeletal Muscle Cell Delivery. Small, 2019, 15, e1901397.	10.0	77

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91	Biomechanical Strain Exacerbates Inflammation on a Progeriaâ€onâ€aâ€Chip Model. Small, 2017, 13, 1603737.	10.0	75
92	Towards the development of human immune-system-on-a-chip platforms. Drug Discovery Today, 2019, 24, 517-525.	6.4	75
93	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.	7.3	73
94	Digital Light Processing Based Bioprinting with Composable Gradients. Advanced Materials, 2022, 34, e2107038.	21.0	71
95	Uniform Beads with Controllable Pore Sizes for Biomedical Applications. Small, 2010, 6, 1492-1498.	10.0	70
96	Embedded Multimaterial Extrusion Bioprinting. SLAS Technology, 2018, 23, 154-163.	1.9	68
97	Three-Dimensional Bioprinting Strategies for Tissue Engineering. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a025718.	6.2	67
98	Liverâ€onâ€aâ€Chip Models of Fatty Liver Disease. Hepatology, 2020, 71, 733-740.	7.3	67
99	Organ-on-a-chip platforms for accelerating the evaluation of nanomedicine. Bioactive Materials, 2021, 6, 1012-1027.	15.6	67
100	Seeking the right context for evaluating nanomedicine: from tissue models in petri dishes to microfluidic organs-on-a-chip. Nanomedicine, 2015, 10, 685-688.	3.3	65
101	Permeability mapping of gelatin methacryloyl hydrogels. Acta Biomaterialia, 2018, 77, 38-47.	8.3	65
102	An enzyme-sensitive probe for photoacoustic imaging and fluorescence detection of protease activity. Nanoscale, 2011, 3, 950.	5.6	64
103	Targeting Hypoxic Tumors with Hybrid Nanobullets for Oxygen-Independent Synergistic Photothermal andÂThermodynamic Therapy. Nano-Micro Letters, 2021, 13, 99.	27.0	64
104	Electrospun nanofiber blend with improved mechanical and biological performance. International Journal of Nanomedicine, 2018, Volume 13, 7891-7903.	6.7	63
105	Advancing Tissue Engineering: A Tale of Nanoâ€, Microâ€, and Macroscale Integration. Small, 2016, 12, 2130-2145.	10.0	62
106	3D-printable colloidal photonic crystals. Materials Today, 2022, 56, 29-41.	14.2	61
107	A General Strategy for Extrusion Bioprinting of Bioâ€Macromolecular Bioinks through Alginateâ€Templated Dualâ€Stage Crosslinking. Macromolecular Bioscience, 2018, 18, e1800127.	4.1	60
108	Injectable shear-thinning hydrogels for delivering osteogenic and angiogenic cells and growth factors. Biomaterials Science, 2018, 6, 1604-1615.	5.4	59

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109	Inverse opal scaffolds for applications in regenerative medicine. Soft Matter, 2013, 9, 9747.	2.7	58
110	Recent advances of microneedles used towards stimuli-responsive drug delivery, disease theranostics, and bioinspired applications. Chemical Engineering Journal, 2021, 426, 130561.	12.7	58
111	Visible light crosslinkable human hair keratin hydrogels. Bioengineering and Translational Medicine, 2018, 3, 37-48.	7.1	57
112	A Heartâ€Breast Cancerâ€onâ€aâ€Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. Small, 2021, 17, e2004258.	10.0	57
113	Symbiotic Photosynthetic Oxygenation within 3D-Bioprinted Vascularized Tissues. Matter, 2021, 4, 217-240.	10.0	57
114	Coaxial Extrusion of Tubular Tissue Constructs Using a Gelatin/GelMA Blend Bioink. ACS Biomaterials Science and Engineering, 2019, 5, 5514-5524.	5.2	55
115	Advancements in Hydrogel-Based Drug Sustained Release Systems for Bone Tissue Engineering. Frontiers in Pharmacology, 2020, 11, 622.	3.5	55
116	Multi-Scale Molecular Photoacoustic Tomography of Gene Expression. PLoS ONE, 2012, 7, e43999.	2.5	54
117	Endovascular Embolization by Transcatheter Delivery of Particles: Past, Present, and Future. Journal of Functional Biomaterials, 2017, 8, 12.	4.4	54
118	Fabrication of whole-thermoplastic normally closed microvalve, micro check valve, and micropump. Sensors and Actuators B: Chemical, 2018, 262, 625-636.	7.8	54
119	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. Advanced Healthcare Materials, 2019, 8, e1801146.	7.6	54
120	An open-source handheld extruder loaded with pore-forming bioink for in situ wound dressing. Materials Today Bio, 2020, 8, 100074.	5.5	52
121	Programmable microbial ink for 3D printing of living materials produced from genetically engineered protein nanofibers. Nature Communications, 2021, 12, 6600.	12.8	52
122	Bioreactors for Cardiac Tissue Engineering. Advanced Healthcare Materials, 2019, 8, e1701504.	7.6	51
123	A Foreign Body Responseâ€onâ€aâ€Chip Platform. Advanced Healthcare Materials, 2019, 8, e1801425.	7.6	51
124	Three-Dimensional Printing: An Enabling Technology for IR. Journal of Vascular and Interventional Radiology, 2016, 27, 859-865.	0.5	50
125	Hydrophobic Hydrogels: Toward Construction of Floating (Bio)microdevices. Chemistry of Materials, 2016, 28, 3641-3648.	6.7	49
126	Photoacoustic microscopy in tissue engineering. Materials Today, 2013, 16, 67-77.	14.2	48

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127	Copper Sulfide Nanoparticle/Cellulose Composite Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. ACS Sustainable Chemistry and Engineering, 2017, 5, 2648-2655.	6.7	48
128	Mimicking Human Pathophysiology in Organâ€onâ€Chip Devices. Advanced Biology, 2018, 2, 1800109.	3.0	48
129	Colloidal Photonic Crystals for Biomedical Applications. Small Structures, 2021, 2, 2000110.	12.0	47
130	A hemostatic sponge derived from skin secretion of Andrias davidianus and nanocellulose. Chemical Engineering Journal, 2021, 416, 129136.	12.7	46
131	Generation of Cost-Effective Paper-Based Tissue Models through Matrix-Assisted Sacrificial 3D Printing. Nano Letters, 2019, 19, 3603-3611.	9.1	45
132	A Smartphoneâ€Enabled Portable Digital Light Processing 3D Printer. Advanced Materials, 2021, 33, e2102153.	21.0	45
133	Facile fabrication of a biocompatible composite gel with sustained release of aspirin for bone regeneration. Bioactive Materials, 2022, 11, 130-139.	15.6	45
134	Hybrid Microscopy: Enabling Inexpensive High-Performance Imaging through Combined Physical and Optical Magnifications. Scientific Reports, 2016, 6, 22691.	3.3	44
135	Nanoparticles for immune system targeting. Drug Discovery Today, 2017, 22, 1295-1301.	6.4	43
136	Hydrogen sulfide maintains dental pulp stem cell function via TRPV1-mediated calcium influx. Cell Death Discovery, 2018, 4, 1.	4.7	43
137	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. Biofabrication, 2020, 12, 035023.	7.1	43
138	Molecularly cleavable bioinks facilitate high-performance digital light processing-based bioprinting of functional volumetric soft tissues. Nature Communications, 2022, 13, .	12.8	43
139	Influence of Surface Chemistry on Adhesion and Osteo/Odontogenic Differentiation of Dental Pulp Stem Cells. ACS Biomaterials Science and Engineering, 2017, 3, 1119-1128.	5.2	42
140	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.	2.7	42
141	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.	9.9	42
142	Supercritical Fluid-Assisted Fabrication of Indocyanine Green-Encapsulated Silk Fibroin Nanoparticles for Dual-Triggered Cancer Therapy. ACS Biomaterials Science and Engineering, 2018, 4, 3487-3497.	5.2	41
143	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Colorâ€Tunable Barcoding. Small, 2020, 16, e1907586.	10.0	41
144	Controlling the Pore Sizes and Related Properties of Inverse Opal Scaffolds for Tissue Engineering Applications. Macromolecular Rapid Communications, 2013, 34, 485-491.	3.9	40

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145	Boosting clinical translation of nanomedicine. Nanomedicine, 2016, 11, 1495-1497.	3.3	40
146	Modeling Endothelialized Hepatic Tumor Microtissues for Drug Screening. Advanced Science, 2020, 7, 2002002.	11.2	40
147	3D Immunocompetent Organâ€ɑnâ€ɑâ€Chip Models. Small Methods, 2020, 4, 2000235.	8.6	40
148	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.	3.6	39
149	Synchronized electromechanical integration recording of cardiomyocytes. Biosensors and Bioelectronics, 2018, 117, 354-365.	10.1	38
150	Improving Bioprinted Volumetric Tumor Microenvironments In Vitro. Trends in Cancer, 2020, 6, 745-756.	7.4	38
151	High-resolution lithographic biofabrication of hydrogels with complex microchannels from low-temperature-soluble gelatin bioresins. Materials Today Bio, 2021, 12, 100162.	5.5	38
152	Invited Article: Emerging soft bioelectronics for cardiac health diagnosis and treatment. APL Materials, 2019, 7, 031301.	5.1	37
153	Bioprinting of Small-Diameter Blood Vessels. Engineering, 2021, 7, 832-844.	6.7	37
154	Multiple facets for extracellular matrix mimicking in regenerative medicine. Nanomedicine, 2015, 10, 689-692.	3.3	36
155	Reconstruction of Large-scale Defects with a Novel Hybrid Scaffold Made from Poly(L-lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Scientific Reports, 2017, 7, 359.	3.3	36
156	A hepatocellular carcinomaâ€“bone metastasis-on-a-chip model for studying thymoquinone-loaded anticancer nanoparticles. Bio-Design and Manufacturing, 2020, 3, 189-202.	7.7	36
157	Enhanced electric-field-induced strains in (K,Na)NbO3 piezoelectrics from heterogeneous structures. Materials Today, 2021, 46, 44-53.	14.2	36
158	3D-bioprinted cancer-on-a-chip: level-up organotypic in vitro models. Trends in Biotechnology, 2022, 40, 432-447.	9.3	36
159	Freeform cell-laden cryobioprinting for shelf-ready tissue fabrication and storage. Matter, 2022, 5, 573-593.	10.0	36
160	Vertical Extrusion Cryo(bio)printing for Anisotropic Tissue Manufacturing. Advanced Materials, 2022, 34, e2108931.	21.0	36
161	Imaging Biomaterialâ€“Tissue Interactions. Trends in Biotechnology, 2018, 36, 403-414.	9.3	35
162	The Delivery of Extracellular Vesicles Loaded in Biomaterial Scaffolds for Bone Regeneration. Frontiers in Bioengineering and Biotechnology, 2020, 8, 1015.	4.1	35

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163	3D bioprinted organâ€onâ€chips. Aggregate, 2023, 4, .	9.9	35
164	Google Glass-Directed Monitoring and Control of Microfluidic Biosensors and Actuators. Scientific Reports, 2016, 6, 22237.	3.3	34
165	Current advances in skin-on-a-chip models for drug testing. Microphysiological Systems, 2018, 1, 1-1.	2.0	34
166	Porous Electrospun Fibers with Selfâ€Sealing Functionality: An Enabling Strategy for Trapping Biomacromolecules. Small, 2017, 13, 1701949.	10.0	33
167	Hemostasis and nanotechnology. Cardiovascular Diagnosis and Therapy, 2017, 7, S267-S275.	1.7	33
168	Hydrogen sulfide promotes immunomodulation of gingiva-derived mesenchymal stem cells via the Fas/FasL coupling pathway. Stem Cell Research and Therapy, 2018, 9, 62.	5.5	33
169	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.	7.6	33
170	Deep image prior for undersampling high-speed photoacoustic microscopy. Photoacoustics, 2021, 22, 100266.	7.8	33
171	Nonâ€Invasive and Inâ€…Situ Characterization of the Degradation of Biomaterial Scaffolds by Volumetric Photoacoustic Microscopy. Angewandte Chemie - International Edition, 2014, 53, 184-188.	13.8	31
172	Eccentric magnetic microcapsules for orientation-specific and dual stimuli-responsive drug release. Journal of Materials Chemistry B, 2015, 3, 4530-4538.	5.8	31
173	Bioinspired Universal Flexible Elastomerâ€Based Microchannels. Small, 2018, 14, e1702170.	10.0	31
174	A Bioinspired Hemostatic Powder Derived from the Skin Secretion of <i>Andrias davidianus</i> for Rapid Hemostasis and Intraoral Wound Healing. Small, 2022, 18, e2101699.	10.0	31
175	Microporeâ€Forming Gelatin Methacryloyl (GelMA) Bioink Toolbox 2.0: Designable Tunability and Adaptability for 3D Bioprinting Applications. Small, 2022, 18, .	10.0	31
176	Microfluidic Air Sampler for Highly Efficient Bacterial Aerosol Collection and Identification. Analytical Chemistry, 2016, 88, 11504-11512.	6.5	30
177	3Dâ€Printed Sugarâ€Based Stents Facilitating Vascular Anastomosis. Advanced Healthcare Materials, 2018, 7, e1800702.	7.6	30
178	Composite Inks for Extrusion Printing of Biological and Biomedical Constructs. ACS Biomaterials Science and Engineering, 2021, 7, 4009-4026.	5.2	30
179	Supercritical Fluid-Assisted Decoration of Nanoparticles on Porous Microcontainers for Codelivery of Therapeutics and Inhalation Therapy of Diabetes. ACS Biomaterials Science and Engineering, 2018, 4, 4225-4235.	5.2	29
180	Engineering in vitro human tissue models through bio-design and manufacturing. Bio-Design and Manufacturing, 2020, 3, 155-159.	7.7	29

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