

Yu Shrike Zhang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

317 papers	17,309 citations	68 h-index	124 g-index
348 ext. papers	21,903 ext. citations	10.2 avg, IF	7.32 L-index

#	Paper	IF	Citations
3 ¹⁷	Advances in engineering hydrogels. <i>Science</i> , 2017 , 356,	33.3	1161
3 ¹⁶	Engineered nanoparticles for drug delivery in cancer therapy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12320-64	16.4	807
3 ¹⁵	Direct 3D bioprinting of perfusable vascular constructs using a blend bioink. <i>Biomaterials</i> , 2016 , 106, 58-68	15.6	544
3 ¹⁴	Bioprinting 3D microfibrinous scaffolds for engineering endothelialized myocardium and heart-on-a-chip. <i>Biomaterials</i> , 2016 , 110, 45-59	15.6	495
3 ¹³	Comparison study of gold nanohexapods, nanorods, and nanocages for photothermal cancer treatment. <i>ACS Nano</i> , 2013 , 7, 2068-77	16.7	492
3 ¹²	Bioinks for 3D bioprinting: an overview. <i>Biomaterials Science</i> , 2018 , 6, 915-946	7.4	488
3 ¹¹	Multisensor-integrated organs-on-chips platform for automated and continual in situ monitoring of organoid behaviors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2293-E2302	11.5	416
3 ¹⁰	Graphene-based materials for tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2016 , 105, 255-274	18.5	404
3 ⁰⁹	3D Bioprinting for Tissue and Organ Fabrication. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 148-163	4.7	368
3 ⁰⁸	A liver-on-a-chip platform with bioprinted hepatic spheroids. <i>Biofabrication</i> , 2016 , 8, 014101	10.5	353
3 ⁰⁷	Cell-laden hydrogels for osteochondral and cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2017 , 57, 1-25	10.8	317
3 ⁰⁶	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. <i>Scientific Reports</i> , 2017 , 7, 8837	4.9	297
3 ⁰⁵	Reduced Graphene Oxide-GelMA Hybrid Hydrogels as Scaffolds for Cardiac Tissue Engineering. <i>Small</i> , 2016 , 12, 3677-89	11	283
3 ⁰⁴	Organ-on-a-chip platforms for studying drug delivery systems. <i>Journal of Controlled Release</i> , 2014 , 190, 82-93	11.7	252
3 ⁰³	Extrusion Bioprinting of Shear-Thinning Gelatin Methacryloyl Bioinks. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601451	10.1	233
3 ⁰²	Rapid Continuous Multimaterial Extrusion Bioprinting. <i>Advanced Materials</i> , 2017 , 29, 1604630	24	205
3 ⁰¹	4D bioprinting: the next-generation technology for biofabrication enabled by stimuli-responsive materials. <i>Biofabrication</i> , 2016 , 9, 012001	10.5	190

300	Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting. <i>Advanced Materials</i> , 2018 , 30, e1800242	24	190
299	Interplay between materials and microfluidics. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	179
298	A temperature-sensitive drug release system based on phase-change materials. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7904-8	16.4	177
297	Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs. <i>Advanced Functional Materials</i> , 2017 , 27, 1605352	15.6	173
296	Vascularized 3D printed scaffolds for promoting bone regeneration. <i>Biomaterials</i> , 2019 , 190-191, 97-110	15.6	171
295	A Bioactive Carbon Nanotube-Based Ink for Printing 2D and 3D Flexible Electronics. <i>Advanced Materials</i> , 2016 , 28, 3280-9	24	156
294	Bioprinting the Cancer Microenvironment. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1710-1721	5.5	148
293	Coaxial extrusion bioprinting of 3D microfibrinous constructs with cell-favorable gelatin methacryloyl microenvironments. <i>Biofabrication</i> , 2018 , 10, 024102	10.5	147
292	Bioprinted thrombosis-on-a-chip. <i>Lab on A Chip</i> , 2016 , 16, 4097-4105	7.2	146
291	Evolution and Clinical Translation of Drug Delivery Nanomaterials. <i>Nano Today</i> , 2017 , 15, 91-106	17.9	143
290	Glucose-Sensitive Hydrogel Optical Fibers Functionalized with Phenylboronic Acid. <i>Advanced Materials</i> , 2017 , 29, 1606380	24	142
289	An injectable self-healing coordinative hydrogel with antibacterial and angiogenic properties for diabetic skin wound repair. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	138
288	3D Bioprinting: from Benches to Translational Applications. <i>Small</i> , 2019 , 15, e1805510	11	137
287	Aptamer-Based Microfluidic Electrochemical Biosensor for Monitoring Cell-Secreted Trace Cardiac Biomarkers. <i>Analytical Chemistry</i> , 2016 , 88, 10019-10027	7.8	137
286	Aqueous Two-Phase Emulsion Bioink-Enabled 3D Bioprinting of Porous Hydrogels. <i>Advanced Materials</i> , 2018 , 30, e1805460	24	135
285	Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues. <i>Advanced Materials</i> , 2018 , 30, e1706913	24	134
284	Mussel-Inspired Multifunctional Hydrogel Coating for Prevention of Infections and Enhanced Osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11428-11439	9.5	132
283	Gold nanocages covered with thermally-responsive polymers for controlled release by high-intensity focused ultrasound. <i>Nanoscale</i> , 2011 , 3, 1724-30	7.7	117

282	Spatially and Temporally Controlled Hydrogels for Tissue Engineering. <i>Materials Science and Engineering Reports</i> , 2017 , 119, 1-35	30.9	115
281	Supercritical Fluid Technology: An Emphasis on Drug Delivery and Related Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700433	10.1	113
280	An Advanced Multifunctional Hydrogel-Based Dressing for Wound Monitoring and Drug Delivery. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700718	10.1	112
279	Automated microfluidic platform of bead-based electrochemical immunosensor integrated with bioreactor for continual monitoring of cell secreted biomarkers. <i>Scientific Reports</i> , 2016 , 6, 24598	4.9	107
278	Fabrication of Microbeads with a Controllable Hollow Interior and Porous Wall Using a Capillary Fluidic Device. <i>Advanced Functional Materials</i> , 2009 , 19, 2943-2949	15.6	106
277	3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. <i>Advanced Materials</i> , 2019 , 31, e1806590	24	102
276	An injectable shear-thinning biomaterial for endovascular embolization. <i>Science Translational Medicine</i> , 2016 , 8, 365ra156	17.5	101
275	Surface acoustic waves induced micropatterning of cells in gelatin methacryloyl (GelMA) hydrogels. <i>Biofabrication</i> , 2017 , 9, 015020	10.5	97
274	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. <i>Biomaterials</i> , 2017 , 139, 163-171	15.6	96
273	From cardiac tissue engineering to heart-on-a-chip: beating challenges. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 034006	3.5	96
272	Cardiovascular Organ-on-a-Chip Platforms for Drug Discovery and Development. <i>Applied in Vitro Toxicology</i> , 2016 , 2, 82-96	1.3	95
271	Electrically Driven Microengineered Bioinspired Soft Robots. <i>Advanced Materials</i> , 2018 , 30, 1704189	24	94
270	Inverse Opal Scaffolds and Their Biomedical Applications. <i>Advanced Materials</i> , 2017 , 29, 1701115	24	91
269	Paper-based microfluidic system for tear electrolyte analysis. <i>Lab on A Chip</i> , 2017 , 17, 1137-1148	7.2	90
268	Effective bioprinting resolution in tissue model fabrication. <i>Lab on A Chip</i> , 2019 , 19, 2019-2037	7.2	90
267	Bioprinted 3D vascularized tissue model for drug toxicity analysis. <i>Biomicrofluidics</i> , 2017 , 11, 044109	3.2	89
266	Neovascularization in biodegradable inverse opal scaffolds with uniform and precisely controlled pore sizes. <i>Advanced Healthcare Materials</i> , 2013 , 2, 145-54	10.1	89
265	Three-dimensional bioprinting of gelatin methacryloyl (GelMA). <i>Bio-Design and Manufacturing</i> , 2018 , 1, 215-224	4.7	85

264	Cancer-on-a-chip systems at the frontier of nanomedicine. <i>Drug Discovery Today</i> , 2017 , 22, 1392-1399	8.8	84
263	Complexation-induced resolution enhancement of 3D-printed hydrogel constructs. <i>Nature Communications</i> , 2020 , 11, 1267	17.4	83
262	Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes. <i>Advanced Science</i> , 2017 , 4, 1600522	13.6	80
261	BSCI-16. HEMODYNAMIC SHEAR STRESS SELECTS A SUBPOPULATION OF LUNG ADENOCARCINOMA CELLS WITH HIGHER METASTATIC CAPACITY. <i>Neuro-Oncology Advances</i> , 2019 , 1, i4-i4	0.9	78
260	Osteosarcoma Therapy: Inhibition of CaMKII β Activity Enhances Antitumor Effect of Fullerene C60 Nanocrystals by Suppression of Autophagic Degradation (Adv. Sci. 8/2019). <i>Advanced Science</i> , 2019 , 6, 1970051	13.6	78
259	Labeling human mesenchymal stem cells with gold nanocages for in vitro and in vivo tracking by two-photon microscopy and photoacoustic microscopy. <i>Theranostics</i> , 2013 , 3, 532-43	12.1	78
258	Maßgeschneiderte Nanopartikel für den Wirkstofftransport in der Krebstherapie. <i>Angewandte Chemie</i> , 2014 , 126, 12520-12568	3.6	75
257	A microfluidic optical platform for real-time monitoring of pH and oxygen in microfluidic bioreactors and organ-on-chip devices. <i>Biomicrofluidics</i> , 2016 , 10, 044111	3.2	75
256	Rapid prototyping of whole-thermoplastic microfluidics with built-in microvalves using laser ablation and thermal fusion bonding. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 100-109	8.5	70
255	Elastomeric free-form blood vessels for interconnecting organs on chip systems. <i>Lab on A Chip</i> , 2016 , 16, 1579-86	7.2	70
254	Circulating apoptotic bodies maintain mesenchymal stem cell homeostasis and ameliorate osteopenia via transferring multiple cellular factors. <i>Cell Research</i> , 2018 , 28, 918-933	24.7	70
253	A Highly Stretchable and Robust Non-fluorinated Superhydrophobic Surface. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16273-16280	13	68
252	A Bioinspired Medical Adhesive Derived from Skin Secretion of <i>Andrias davidianus</i> for Wound Healing. <i>Advanced Functional Materials</i> , 2019 , 29, 1809110	15.6	68
251	A cost-effective fluorescence mini-microscope for biomedical applications. <i>Lab on A Chip</i> , 2015 , 15, 3661-72	9.2	68
250	Locally Deployable Nanofiber Patch for Sequential Drug Delivery in Treatment of Primary and Advanced Orthotopic Hepatomas. <i>ACS Nano</i> , 2018 , 12, 6685-6699	16.7	68
249	A Tumor-on-a-Chip System with Bioprinted Blood and Lymphatic Vessel Pair. <i>Advanced Functional Materials</i> , 2019 , 29, 1807173	15.6	67
248	Kidney-on-a-chip: untapped opportunities. <i>Kidney International</i> , 2018 , 94, 1073-1086	9.9	66
247	The Tumor-on-Chip: Recent Advances in the Development of Microfluidic Systems to Recapitulate the Physiology of Solid Tumors. <i>Materials</i> , 2019 , 12,	3.5	65

246	Low cost smart phone diagnostics for food using paper-based colorimetric sensor arrays. <i>Food Control</i> , 2017 , 82, 227-232	6.2	65
245	Label-free photoacoustic microscopy of cytochromes. <i>Journal of Biomedical Optics</i> , 2013 , 18, 20504	3.5	65
244	Hyaluronic Acid (HA)-Based Silk Fibroin/Zinc Oxide Core-Shell Electrospun Dressing for Burn Wound Management. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900328	5.5	62
243	Tet1 and Tet2 maintain mesenchymal stem cell homeostasis via demethylation of the P2rx7 promoter. <i>Nature Communications</i> , 2018 , 9, 2143	17.4	60
242	An enzyme-sensitive probe for photoacoustic imaging and fluorescence detection of protease activity. <i>Nanoscale</i> , 2011 , 3, 950-3	7.7	59
241	Uniform beads with controllable pore sizes for biomedical applications. <i>Small</i> , 2010 , 6, 1492-8	11	56
240	Bioprinted Injectable Hierarchically Porous Gelatin Methacryloyl Hydrogel Constructs with Shape-Memory Properties. <i>Advanced Functional Materials</i> , 2020 , 30, 2003740	15.6	55
239	Fabrication of injectable and superelastic nanofiber rectangle matrices ("peanuts") and their potential applications in hemostasis. <i>Biomaterials</i> , 2018 , 179, 46-59	15.6	55
238	Recent Advances in Formulating and Processing Biomaterial Inks for Vat Polymerization-Based 3D Printing. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000156	10.1	54
237	Towards the development of human immune-system-on-a-chip platforms. <i>Drug Discovery Today</i> , 2019 , 24, 517-525	8.8	54
236	Dissolvable Microneedles Coupled with Nanofiber Dressings Eradicate Biofilms Effectively Delivering a Database-Designed Antimicrobial Peptide. <i>ACS Nano</i> , 2020 , 14, 11775-11786	16.7	53
235	Tough Bonding, On-Demand Debonding, and Facile Rebonding between Hydrogels and Diverse Metal Surfaces. <i>Advanced Materials</i> , 2019 , 31, e1904732	24	52
234	Highly Porous Microcarriers for Minimally Invasive In Situ Skeletal Muscle Cell Delivery. <i>Small</i> , 2019 , 15, e1901397	11	51
233	Inverse opal scaffolds for applications in regenerative medicine. <i>Soft Matter</i> , 2013 , 9, 9747	3.6	51
232	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). <i>Small</i> , 2019 , 15, 1970126	11	50
231	Gambogic acid augments black phosphorus quantum dots (BPQDs)-based synergistic chemo-photothermal therapy through downregulating heat shock protein expression. <i>Chemical Engineering Journal</i> , 2020 , 390, 124312	14.7	50
230	Advancing Tissue Engineering: A Tale of Nano-, Micro-, and Macroscale Integration. <i>Small</i> , 2016 , 12, 2130-2145	14.5	49
229	Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model. <i>Small</i> , 2017 , 13, 1603737	11	48

228	Self-targeting visualizable hyaluronate nanogel for synchronized intracellular release of doxorubicin and cisplatin in combating multidrug-resistant breast cancer. <i>Nano Research</i> , 2021 , 14, 846-857	10	48
227	A General Strategy for Extrusion Bioprinting of Bio-Macromolecular Bioinks through Alginate-Templated Dual-Stage Crosslinking. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800127	5.5	48
226	Photoacoustic Microscopy in Tissue Engineering. <i>Materials Today</i> , 2013 , 16, 67-77	21.8	46
225	Embedded Multimaterial Extrusion Bioprinting. <i>SLAS Technology</i> , 2018 , 23, 154-163	3	46
224	Protein/polysaccharide-based scaffolds mimicking native extracellular matrix for cardiac tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 769-781	5.4	45
223	Multi-scale molecular photoacoustic tomography of gene expression. <i>PLoS ONE</i> , 2012 , 7, e43999	3.7	45
222	Injectable shear-thinning hydrogels for delivering osteogenic and angiogenic cells and growth factors. <i>Biomaterials Science</i> , 2018 , 6, 1604-1615	7.4	44
221	Sprayable hydrogel dressing accelerates wound healing with combined reactive oxygen species-scavenging and antibacterial abilities. <i>Acta Biomaterialia</i> , 2021 , 124, 219-232	10.8	44
220	Three-Dimensional Bioprinting Strategies for Tissue Engineering. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018 , 8,	5.4	43
219	Reversed-engineered human alveolar lung-on-a-chip model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	43
218	Functionalizing Double-Network Hydrogels for Applications in Remote Actuation and in Low-Temperature Strain Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30247-30258	9.5	42
217	Electrospun nanofibers for the delivery of active drugs through nasal, oral and vaginal mucosa: Current status and future perspectives. <i>Materials Science and Engineering C</i> , 2020 , 111, 110756	8.3	42
216	Injectable, self-healing, antibacterial, and hemostatic N,O-carboxymethyl chitosan/oxidized chondroitin sulfate composite hydrogel for wound dressing. <i>Materials Science and Engineering C</i> , 2021 , 118, 111324	8.3	42
215	Electrospun nanofiber blend with improved mechanical and biological performance. <i>International Journal of Nanomedicine</i> , 2018 , 13, 7891-7903	7.3	42
214	Three-Dimensional Printing: An Enabling Technology for IR. <i>Journal of Vascular and Interventional Radiology</i> , 2016 , 27, 859-65	2.4	41
213	Permeability mapping of gelatin methacryloyl hydrogels. <i>Acta Biomaterialia</i> , 2018 , 77, 38-47	10.8	40
212	Hybrid Microscopy: Enabling Inexpensive High-Performance Imaging through Combined Physical and Optical Magnifications. <i>Scientific Reports</i> , 2016 , 6, 22691	4.9	39
211	Visible light crosslinkable human hair keratin hydrogels. <i>Bioengineering and Translational Medicine</i> , 2018 , 3, 37-48	14.8	38

210	Mimicking Human Pathophysiology in Organ-on-Chip Devices. <i>Advanced Biology</i> , 2018 , 2, 1800109	3.5	37
209	Bioreactors for Cardiac Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1701504	10.1	37
208	Copper Sulfide Nanoparticle/Cellulose Composite Paper: Room-Temperature Green Fabrication for NIR Laser-Inducible Ablation of Pathogenic Microorganisms. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2648-2655	8.3	35
207	Fabrication of whole-thermoplastic normally closed microvalve, micro check valve, and micropump. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 625-636	8.5	35
206	Controlling the pore sizes and related properties of inverse opal scaffolds for tissue engineering applications. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 485-91	4.8	34
205	Hydrophobic Hydrogels: Toward Construction of Floating (Bio)microdevices. <i>Chemistry of Materials</i> , 2016 , 28, 3641-3648	9.6	34
204	Coaxial Extrusion of Tubular Tissue Constructs Using a Gelatin/GelMA Blend Bioink. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5514-5524	5.5	33
203	Liver-on-a-Chip Models of Fatty Liver Disease. <i>Hepatology</i> , 2020 , 71, 733-740	11.2	33
202	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801146	10.1	33
201	Nanoparticles for immune system targeting. <i>Drug Discovery Today</i> , 2017 , 22, 1295-1301	8.8	32
200	Endovascular Embolization by Transcatheter Delivery of Particles: Past, Present, and Future. <i>Journal of Functional Biomaterials</i> , 2017 , 8,	4.8	32
199	Boosting clinical translation of nanomedicine. <i>Nanomedicine</i> , 2016 , 11, 1495-7	5.6	32
198	Targeting Hypoxic Tumors with Hybrid Nanobullets for Oxygen-Independent Synergistic Photothermal and Thermodynamic Therapy. <i>Nano-Micro Letters</i> , 2021 , 13, 99	19.5	31
197	Influence of Surface Chemistry on Adhesion and Osteo/Odontogenic Differentiation of Dental Pulp Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1119-1128	5.5	30
196	Generation of Cost-Effective Paper-Based Tissue Models through Matrix-Assisted Sacrificial 3D Printing. <i>Nano Letters</i> , 2019 , 19, 3603-3611	11.5	30
195	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Color-Tunable Barcoding. <i>Small</i> , 2020 , 16, e1907586	11	30
194	Supercritical Fluid-Assisted Fabrication of Indocyanine Green-Encapsulated Silk Fibroin Nanoparticles for Dual-Triggered Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3487-3497	5.5	30
193	Porous Electrospun Fibers with Self-Sealing Functionality: An Enabling Strategy for Trapping Biomacromolecules. <i>Small</i> , 2017 , 13, 1701949	11	29

192	A Foreign Body Response-on-a-Chip Platform. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801425	10.1	29
191	Google Glass-Directed Monitoring and Control of Microfluidic Biosensors and Actuators. <i>Scientific Reports</i> , 2016 , 6, 22237	4.9	29
190	Non-invasive and in situ characterization of the degradation of biomaterial scaffolds by volumetric photoacoustic microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 184-8	16.4	29
189	Bioinspired Universal Flexible Elastomer-Based Microchannels. <i>Small</i> , 2018 , 14, e1702170	11	28
188	Organ-on-a-chip platforms for accelerating the evaluation of nanomedicine. <i>Bioactive Materials</i> , 2021 , 6, 1012-1027	16.7	28
187	Imaging Biomaterial-Tissue Interactions. <i>Trends in Biotechnology</i> , 2018 , 36, 403-414	15.1	27
186	Synchronized electromechanical integration recording of cardiomyocytes. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 354-365	11.8	26
185	Symbiotic Photosynthetic Oxygenation within 3D-Bioprinted Vascularized Tissues. <i>Matter</i> , 2021 , 4, 217-240	24.7	26
184	Eccentric magnetic microcapsules for orientation-specific and dual stimuli-responsive drug release. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4530-4538	7.3	25
183	An open-source handheld extruder loaded with pore-forming bioink for wound dressing. <i>Materials Today Bio</i> , 2020 , 8, 100074	9.9	25
182	Improving Bioprinted Volumetric Tumor Microenvironments In Vitro. <i>Trends in Cancer</i> , 2020 , 6, 745-756	12.5	25
181	Reconstruction of Large-scale Defects with a Novel Hybrid Scaffold Made from Poly(L-lactic acid)/Nanohydroxyapatite/Alendronate-loaded Chitosan Microsphere: in vitro and in vivo Studies. <i>Scientific Reports</i> , 2017 , 7, 359	4.9	24
180	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. <i>Biofabrication</i> , 2020 , 12, 035023	10.5	24
179	Invited Article: Emerging soft bioelectronics for cardiac health diagnosis and treatment. <i>APL Materials</i> , 2019 , 7, 031301	5.7	24
178	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. <i>Analytical Methods</i> , 2021 , 13, 169-178	3.2	24
177	A Tetra-PEG Hydrogel Based Aspirin Sustained Release System Exerts Beneficial Effects on Periodontal Ligament Stem Cells Mediated Bone Regeneration. <i>Frontiers in Chemistry</i> , 2019 , 7, 682	5	23
176	Emerging Technologies in Multi-Material Bioprinting. <i>Advanced Materials</i> , 2021 , e2104730	24	23
175	3D Immunocompetent Organ-on-a-Chip Models. <i>Small Methods</i> , 2020 , 4, 2000235	12.8	22

174	Hemostasis and nanotechnology. <i>Cardiovascular Diagnosis and Therapy</i> , 2017 , 7, S267-S275	2.6	22
173	Hydrogen sulfide promotes immunomodulation of gingiva-derived mesenchymal stem cells via the Fas/FasL coupling pathway. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 62	8.3	22
172	Smart transformable nanoparticles for enhanced tumor theranostics. <i>Applied Physics Reviews</i> , 2021 , 8, 041321	17.3	22
171	Hydrogel Bioink with Multilayered Interfaces Improves Dispersibility of Encapsulated Cells in Extrusion Bioprinting. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30585-30595	9.5	21
170	A Heart-Breast Cancer-on-a-Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. <i>Small</i> , 2021 , 17, e2004258	11	21
169	Advancements in Hydrogel-Based Drug Sustained Release Systems for Bone Tissue Engineering. <i>Frontiers in Pharmacology</i> , 2020 , 11, 622	5.6	20
168	A hepatocellular carcinoma bone metastasis-on-a-chip model for studying thymoquinone-loaded anticancer nanoparticles. <i>Bio-Design and Manufacturing</i> , 2020 , 3, 189-202	4.7	20
167	Anti-fouling strategies for central venous catheters. <i>Cardiovascular Diagnosis and Therapy</i> , 2017 , 7, S246-S257	5.5	20
166	Chaotic printing: using chaos to fabricate densely packed micro- and nanostructures at high resolution and speed. <i>Materials Horizons</i> , 2018 , 5, 813-822	14.4	20
165	Supercritical Fluid-Assisted Decoration of Nanoparticles on Porous Microcontainers for Codelivery of Therapeutics and Inhalation Therapy of Diabetes. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 4225-4235	5.5	20
164	3D-Printed Sugar-Based Stents Facilitating Vascular Anastomosis. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800702	10.1	20
163	Portal Vein Embolization: Impact of Chemotherapy and Genetic Mutations. <i>Journal of Clinical Medicine</i> , 2017 , 6,	5.1	19
162	Microfluidic Bioprinting for Engineering Vascularized Tissues and Organoids. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	19
161	Microfluidic integration of regeneratable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices. <i>Nature Protocols</i> , 2021 , 16, 2564-2593	18.8	19
160	Laterally Confined Microfluidic Patterning of Cells for Engineering Spatially Defined Vascularization. <i>Small</i> , 2016 , 12, 5132-5139	11	18
159	Current advances in skin-on-a-chip models for drug testing. <i>Microphysiological Systems</i> , 2018 , 2,	1.3	18
158	Microfluidic Air Sampler for Highly Efficient Bacterial Aerosol Collection and Identification. <i>Analytical Chemistry</i> , 2016 , 88, 11504-11512	7.8	17
157	3D extrusion bioprinting. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		17

156	ACEI/ARB therapy in COVID-19: the double-edged sword of ACE2 and SARS-CoV-2 viral docking. <i>Critical Care</i> , 2020 , 24, 475	10.8	17
155	Modeling Endothelialized Hepatic Tumor Microtissues for Drug Screening. <i>Advanced Science</i> , 2020 , 7, 2002002	13.6	17
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115	The Delivery of RNA-Interference Therapies Based on Engineered Hydrogels for Bone Tissue Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 445	5.8	9
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64	Biosensors: Label-Free and Regenerative Electrochemical Microfluidic Biosensors for Continual Monitoring of Cell Secretomes (Adv. Sci. 5/2017). <i>Advanced Science</i> , 2017 , 4,	13.6	3
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52	Drawn-on-Skin Sensors from Fully Biocompatible Inks toward High-Quality Electrophysiology. <i>Small</i> , 2017 , 13, 1700999	10.99	3
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44	A Natural Hydrogel with Prohealing Properties Enhances Tendon Regeneration.. <i>Small</i> , 2022 , e2105255	11	2
43	Uniaxial and Coaxial Vertical Embedded Extrusion Bioprinting. <i>Advanced Healthcare Materials</i> , 2021 , e2102411	11.2	2
42	Organ-On-A-Chip: Biomechanical Strain Exacerbates Inflammation on a Progeria-on-a-Chip Model (Small 15/2017). <i>Small</i> , 2017 , 13,	11	1
41	Wound Dressings: An Advanced Multifunctional Hydrogel-Based Dressing for Wound Monitoring and Drug Delivery (Adv. Healthcare Mater. 19/2017). <i>Advanced Healthcare Materials</i> , 2017 , 6,	10.1	1
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38	Supercritical Fluids: Supercritical Fluid Technology: An Emphasis on Drug Delivery and Related Biomedical Applications (Adv. Healthcare Mater. 16/2017). <i>Advanced Healthcare Materials</i> , 2017 , 6,	10.1	1
37	Modular multi-organ-on-chips platform with physicochemical sensor integration 2017 ,		1
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35	Photoacoustic imaging of 3D-printed vascular networks.. <i>Biofabrication</i> , 2022 , 14,	10.5	1
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30	Micro-biogeography greatly matters for competition: Continuous chaotic bioprinting of spatially-controlled bacterial microcosms		1
29	Programmable Microbial Ink for 3D Printing of Living Materials Produced from Genetically Engineered Protein Nanofibers		1
28	Platforms for Personalized Polytherapeutics Discovery in COVID-19. <i>Journal of Molecular Biology</i> , 2021 , 433, 166945	6.5	1
27	Pathology-on-a-Chip: Mimicking Human Pathophysiology in Organ-on-Chip Devices (Adv. Biosys. 10/2018). <i>Advanced Biology</i> , 2018 , 2, 1870092	3.5	1
26	Microfluidic Bioprinting: Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues (Adv. Mater. 43/2018). <i>Advanced Materials</i> , 2018 , 30, 1870322	24	1
25	Leveraging synthesis-swelling relationship to precisely engineer synthetic hydrogels. <i>Matter</i> , 2021 , 4, 2676-2678	12.7	1
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23	Deep Learning-Enabled Resolution-Enhancement in Mini- and Regular Microscopy for Biomedical Imaging. <i>Sensors and Actuators A: Physical</i> , 2021 , 331, 112928-112928	3.9	1
22	Tumor-on-a-chip devices for cancer immunotherapy 2022 , 155-195		1
21	Ceramic Toughening Strategies for Biomedical Applications.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 840372	5.8	1
20	Vascularizing the brain .. <i>IScience</i> , 2022 , 25, 104110	6.1	1
19	Bioinspired -Derived wound dressings for localized drug-elution.. <i>Bioactive Materials</i> , 2022 , 15, 482-494	16.7	0
18	Organic light-emitting diode microdisplay-enabled scalable visible-light 3D printing. <i>Matter</i> , 2021 , 4, 3794-3797	12.7	0
17	Emerging microfluidics-enabled platforms for osteoarthritis management: from benchtop to bedside.. <i>Theranostics</i> , 2022 , 12, 891-909	12.1	0
16	Cellularized polymeric microarchitectures for drug screening. <i>Smart Materials in Medicine</i> , 2021 , 2, 96-113	32.9	0
15	Microfluidic Coaxial Bioprinting of Hollow, Standalone, and Perfusable Vascular Conduits. <i>Methods in Molecular Biology</i> , 2022 , 2375, 61-75	1.4	0
14	The era of translational nanomedicine 2022 , 1, 9130006		0
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12	Target receptor identification and subsequent treatment of resected brain tumors with encapsulated and engineered allogeneic stem cells.. <i>Nature Communications</i> , 2022 , 13, 2810	17.4	o
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3	Dissolvable Stents: 3D-Printed Sugar-Based Stents Facilitating Vascular Anastomosis (Adv. Healthcare Mater. 24/2018). <i>Advanced Healthcare Materials</i> , 2018 , 7, 1870088	10.1	
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