Yu Shrike Zhang

List of Publications by Year in Descending Order

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
317	Biomimetic models of the glomerulus.. *Nature Reviews Nephrology*, **2022**,	14.9	4
316	Digital Light Processing Based Bioprinting with Composable Gradients (Adv. Mater. 1/2022). *Advanced Materials*, **2022**, 34, 2270010	24	1
315	Photoacoustic imaging of 3D-printed vascular networks.. *Biofabrication*, **2022**, 14,	10.5	1
314	Bioinspired -Derived wound dressings for localized drug-elution.. *Bioactive Materials*, **2022**, 15, 482-494	16.7	0
313	Freeform cell-laden cryobioprinting for shelf-ready tissue fabrication and storage. *Matter*, **2022**, 5, 573-593	12.7	6
312	Emerging microfluidics-enabled platforms for osteoarthritis management: from benchtop to bedside.. *Theranostics*, **2022**, 12, 891-909	12.1	0
311	Strategies towards kidney tissue biofabrication. *Current Opinion in Biomedical Engineering*, **2022**, 21, 100362	4.4	1
310	Facile fabrication of a biocompatible composite gel with sustained release of aspirin for bone regeneration.. *Bioactive Materials*, **2022**, 11, 130-139	16.7	5
309	Microfluidic Coaxial Bioprinting of Hollow, Standalone, and Perfusable Vascular Conduits. *Methods in Molecular Biology*, **2022**, 2375, 61-75	1.4	0
308	Tumor-on-a-chip devices for cancer immunotherapy **2022**, 155-195		1
307	3D Bioprinting for Liver Regeneration **2022**, 459-488		
306	The era of translational nanomedicine **2022**, 1, 9130006		0
305	A Natural Hydrogel with Prohealing Properties Enhances Tendon Regeneration.. *Small*, **2022**, e2105255	11	2
304	Ceramic Toughening Strategies for Biomedical Applications.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 840372	5.8	1
303	Vascularizing the brain .. *IScience*, **2022**, 25, 104110	6.1	1
302	Biomaterials for bioprinting **2022**, 51-86		
301	Target receptor identification and subsequent treatment of resected brain tumors with encapsulated and engineered allogeneic stem cells.. *Nature Communications*, **2022**, 13, 2810	17.4	0

300	Patient-derived microphysiological model identifies the therapeutic potential of metformin for thoracic aortic aneurysm. *EBioMedicine*, **2022**, 81, 104080	8.8	0
299	Support Bath-Free Vertical Extrusion Cryo(bio)printing for Anisotropic Tissue Manufacturing.. *Advanced Materials*, **2021**, e2108931	24	6
298	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	10.4	3
297	Smart transformable nanoparticles for enhanced tumor theranostics. *Applied Physics Reviews*, **2021**, 8, 041321	17.3	22
296	High-resolution lithographic biofabrication of hydrogels with complex microchannels from low-temperature-soluble gelatin bioresins. *Materials Today Bio*, **2021**, 12, 100162	9.9	9
295	3D extrusion bioprinting. *Nature Reviews Methods Primers*, **2021**, 1,		17
294	Programmable microbial ink for 3D printing of living materials produced from genetically engineered protein nanofibers. *Nature Communications*, **2021**, 12, 6600	17.4	10
293	A Bioinspired Hemostatic Powder Derived from the Skin Secretion of Andrias davidianus for Rapid Hemostasis and Intraoral Wound Healing. *Small*, **2021**, e2101699	11	5
292	Imiquimod-gemcitabine nanoparticles harness immune cells to suppress breast cancer. *Biomaterials* , **2021**, 280, 121302	15.6	1
291	Organic light-emitting diode microdisplay-enabled scalable visible-light 3D printing. *Matter*, **2021**, 4, 3794-3797	12.7	0
290	Emerging Technologies in Multi-Material Bioprinting. *Advanced Materials*, **2021**, e2104730	24	23
289	Digital Light Processing Based Bioprinting with Composable Gradients. *Advanced Materials*, **2021**, e2107038	24	15
288	Mechanical force-driven TNF endocytosis governs stem cell homeostasis. *Bone Research*, **2021**, 8, 44	13.3	4
287	Composite Inks for Extrusion Printing of Biological and Biomedical Constructs. *ACS Biomaterials Science and Engineering*, **2021**, 7, 4009-4026	5.5	10
286	Targeting Hypoxic Tumors with Hybrid Nanobullets for Oxygen-Independent Synergistic Photothermal and Thermodynamic Therapy. *Nano-Micro Letters*, **2021**, 13, 99	19.5	31
285	Organ-on-a-Chip: A Heart-Breast Cancer-on-a-Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy (Small 15/2021). *Small*, **2021**, 17, 2170070	11	
284	Microfluidic integration of regeneratable electrochemical affinity-based biosensors for continual monitoring of organ-on-a-chip devices. *Nature Protocols*, **2021**, 16, 2564-2593	18.8	19
283	Sprayable hydrogel dressing accelerates wound healing with combined reactive oxygen species-scavenging and antibacterial abilities. *Acta Biomaterialia*, **2021**, 124, 219-232	10.8	44

282	Attacking COVID-19 Progression Using Multi-Drug Therapy for Synergetic Target Engagement. *Biomolecules*, **2021**, 11,	5.9	4
281	Recent Progress in Antimicrobial Strategies for Resin-Based Restoratives. *Polymers*, **2021**, 13,	4.5	6
280	Freeze-Casting with 3D-Printed Templates Creates Anisotropic Microchannels and Patterned Macrochannels within Biomimetic Nanofiber Aerogels for Rapid Cellular Infiltration. *Advanced Healthcare Materials*, **2021**, 10, e2100238	10.1	11
279	Platforms for Personalized Polytherapeutics Discovery in COVID-19. *Journal of Molecular Biology*, **2021**, 433, 166945	6.5	1
278	High-Throughput and Continuous Chaotic Bioprinting of Spatially Controlled Bacterial Microcosms. *ACS Biomaterials Science and Engineering*, **2021**, 7, 2408-2419	5.5	11
277	Reversed-engineered human alveolar lung-on-a-chip model. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	43
276	Engineering (Bio)Materials through Shrinkage and Expansion. *Advanced Healthcare Materials*, **2021**, 10, e2100380	10.1	4
275	Antiviral biomaterials. *Matter*, **2021**, 4, 1892-1918	12.7	5
274	Deep image prior for undersampling high-speed photoacoustic microscopy. *Photoacoustics*, **2021**, 22, 100266	9	13
273	Enhanced electric-field-induced strains in (K,Na)NbO3 piezoelectrics from heterogeneous structures. *Materials Today*, **2021**, 46, 44-53	21.8	11
272	A hemostatic sponge derived from skin secretion of Andrias davidianus and nanocellulose. *Chemical Engineering Journal*, **2021**, 416, 129136	14.7	12
271	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	11.7	14
270	The potential of microfluidics-enhanced extrusion bioprinting. *Biomicrofluidics*, **2021**, 15, 041304	3.2	6
269	Investigating lymphangiogenesis in a sacrificially bioprinted volumetric model of breast tumor tissue. *Methods*, **2021**, 190, 72-79	4.6	9
268	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	8.3	42
267	Designable dual-power micromotors fabricated from a biocompatible gas-shearing strategy. *Chemical Engineering Journal*, **2021**, 407, 127187	14.7	15
266	Bioprinting of Small-Diameter Blood Vessels. *Engineering*, **2021**, 7, 832-844	9.7	7
265	A Heart-Breast Cancer-on-a-Chip Platform for Disease Modeling and Monitoring of Cardiotoxicity Induced by Cancer Chemotherapy. *Small*, **2021**, 17, e2004258	11	21

264	Organ-on-a-chip platforms for accelerating the evaluation of nanomedicine. *Bioactive Materials*, **2021**, 6, 1012-1027	16.7	28
263	Studying endothelial cell shedding and orientation using adaptive perfusion-culture in a microfluidic vascular chip. *Biotechnology and Bioengineering*, **2021**, 118, 963-978	4.9	3
262	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	48
261	Symbiotic Photosynthetic Oxygenation within 3D-Bioprinted Vascularized Tissues. *Matter*, **2021**, 4, 217-240	12.7	26
260	Modeling aortic diseases using induced pluripotent stem cells. *Stem Cells Translational Medicine*, **2021**, 10, 190-197	6.9	2
259	CRL4 dependent opposing stability control over the chromatin remodeler LSH orchestrates epigenetic dynamics in ferroptosis. *Cell Death and Differentiation*, **2021**, 28, 1593-1609	12.7	7
258	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	3.2	24
257	Exosomes targeted towards applications in regenerative medicine. *Nano Select*, **2021**, 2, 880-908	3.1	7
256	Cellularized polymeric microarchitectures for drug screening. *Smart Materials in Medicine*, **2021**, 2, 96-113	12.9	0
255	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	4.9	5
254	Colloidal Photonic Crystals for Biomedical Applications. *Small Structures*, **2021**, 2, 2000110	8.7	16
253	3D human nonalcoholic hepatic steatosis and fibrosis models. *Bio-Design and Manufacturing*, **2021**, 4, 157-170	4.7	9
252	A Smartphone-Enabled Portable Digital Light Processing 3D Printer. *Advanced Materials*, **2021**, 33, e2102153	24	15
251	Universal Peptide Hydrogel for Scalable Physiological Formation and Bioprinting of 3D Spheroids from Human Induced Pluripotent Stem Cells. *Advanced Functional Materials*, **2021**, 31, 2104046	15.6	3
250	Leveraging synthesis-swelling relationship to precisely engineer synthetic hydrogels. *Matter*, **2021**, 4, 2676-2678	12.7	1
249	Handheld bioprinting strategies for in situ wound dressing. *Essays in Biochemistry*, **2021**, 65, 533-543	7.6	5
248	Nanotechnologies and Nanomaterials in 3D (Bio)printing toward Bone Regeneration. *Advanced NanoBiomed Research*, **2021**, 1, 2100035	0	3
247	3D-bioprinted cancer-on-a-chip: level-up organotypic in vitro models. *Trends in Biotechnology*, **2021**,	15.1	8

246	A 3D-Bioprinted Multiple Myeloma Model. *Advanced Healthcare Materials*, **2021**, e2100884	10.1	2
245	Bridging the academia-to-industry gap: organ-on-a-chip platforms for safety and toxicology assessment. *Trends in Pharmacological Sciences*, **2021**, 42, 715-728	13.2	10
244	Nature-derived bionanomaterials for sustained release of 5-fluorouracil to inhibit subconjunctival fibrosis. *Materials Today Advances*, **2021**, 11, 100150	7.4	6
243	Tackling Current Biomedical Challenges With Frontier Biofabrication and Organ-On-A-Chip Technologies. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 732130	5.8	4
242	State-of-art affordable bioprinters: A guide for the DiY community. *Applied Physics Reviews*, **2021**, 8, 031312	17.3	2
241	A Smartphone-Enabled Portable Digital Light Processing 3D Printer (Adv. Mater. 35/2021). *Advanced Materials*, **2021**, 33, 2170271	24	1
240	Minimally invasive co-injection of modular micro-muscular and micro-vascular tissues improves in situ skeletal muscle regeneration. *Biomaterials*, **2021**, 277, 121072	15.6	6
239	Deep Learning-Enabled Resolution-Enhancement in Mini- and Regular Microscopy for Biomedical Imaging. *Sensors and Actuators A: Physical*, **2021**, 331, 112928-112928	3.9	1
238	Recent advances of microneedles used towards stimuli-responsive drug delivery, disease theranostics, and bioinspired applications. *Chemical Engineering Journal*, **2021**, 426, 130561	14.7	13
237	Uniaxial and Coaxial Vertical Embedded Extrusion Bioprinting. *Advanced Healthcare Materials*, **2021**, e2102411	10.1	2
236	Faithful Fabrication of Biocompatible Multicompartmental Memomicrospheres for Digitally Color-Tunable Barcoding. *Small*, **2020**, 16, e1907586	11	30
235	Ultraviolet Radiant Energy-Dependent Functionalization Regulates Cellular Behavior on Titanium Dioxide Nanodots. *ACS Applied Materials & Interfaces*, **2020**, 12, 31793-31803	9.5	4
234	Advancements in Hydrogel-Based Drug Sustained Release Systems for Bone Tissue Engineering. *Frontiers in Pharmacology*, **2020**, 11, 622	5.6	20
233	A hepatocellular carcinoma-bone metastasis-on-a-chip model for studying thymoquinone-loaded anticancer nanoparticles. *Bio-Design and Manufacturing*, **2020**, 3, 189-202	4.7	20
232	Functionalizing Double-Network Hydrogels for Applications in Remote Actuation and in Low-Temperature Strain Sensing. *ACS Applied Materials & Interfaces*, **2020**, 12, 30247-30258	9.5	42
231	Recent Advances in Formulating and Processing Biomaterial Inks for Vat Polymerization-Based 3D Printing. *Advanced Healthcare Materials*, **2020**, 9, e2000156	10.1	54
230	3D Immunocompetent Organ-on-a-Chip Models. *Small Methods*, **2020**, 4, 2000235	12.8	22
229	High-throughput single-cell analysis of exosome mediated dual drug delivery, in vivo fate and synergistic tumor therapy. *Nanoscale*, **2020**, 12, 13742-13756	7.7	12

228	Complexation-induced resolution enhancement of 3D-printed hydrogel constructs. *Nature Communications*, **2020**, 11, 1267	17.4	83
227	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	10	
226	Hyaluronic Acid (HA)-Based Silk Fibroin/Zinc Oxide Core-Shell Electrospun Dressing for Burn Wound Management. *Macromolecular Bioscience*, **2020**, 20, e1900328	5.5	62
225	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	8.3	42
224	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	14.7	50
223	A Transparent, Wearable Fluorescent Mouthguard for High-Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites. *Advanced Materials*, **2020**, 32, e2000060	24	10
222	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. *Biofabrication*, **2020**, 12, 035023	10.5	24
221	The Delivery of RNA-Interference Therapies Based on Engineered Hydrogels for Bone Tissue Regeneration. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 445	5.8	9
220	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	1.6	
219	Effects of the multifunctional hormone leptin on orthodontic tooth movement in rats. *American Journal of Translational Research (discontinued)*, **2020**, 12, 1976-1984	3	1
218	DNA methylation and demethylation link the properties of mesenchymal stem cells: Regeneration and immunomodulation. *World Journal of Stem Cells*, **2020**, 12, 351-358	5.6	7
217	Vascular Tissue Engineering: The Role of 3D Bioprinting **2020**, 1-18		
216	Nanocomposites: A Transparent, Wearable Fluorescent Mouthguard for High-Sensitive Visualization and Accurate Localization of Hidden Dental Lesion Sites (Adv. Mater. 21/2020). *Advanced Materials*, **2020**, 32, 2070162	24	
215	Vascular Tissue Engineering: The Role of 3D Bioprinting **2020**, 321-338		5
214	Fabrication of paper-based devices for in vitro tissue modeling. *Bio-Design and Manufacturing*, **2020**, 3, 252-265	4.7	5
213	Biomaterials for on-chip organ systems **2020**, 669-707		4
212	Expanding sacrificially printed microfluidic channel-embedded paper devices for construction of volumetric tissue models in vitro. *Biofabrication*, **2020**, 12, 045027	10.5	10
211	Liver-on-a-Chip Models of Fatty Liver Disease. *Hepatology*, **2020**, 71, 733-740	11.2	33

210	An open-source handheld extruder loaded with pore-forming bioink for wound dressing. *Materials Today Bio*, **2020**, 8, 100074	9.9	25
209	T cells participate in bone remodeling during the rapid palatal expansion. *FASEB Journal*, **2020**, 34, 15327-15337	5.6	3
208	Improving Bioprinted Volumetric Tumor Microenvironments In Vitro. *Trends in Cancer*, **2020**, 6, 745-756	12.5	25
207	3D bioprinting of glioblastoma models. *Journal of 3D Printing in Medicine*, **2020**, 4, 113-125	1.5	8
206	ACEI/ARB therapy in COVID-19: the double-edged sword of ACE2 and SARS-CoV-2 viral docking. *Critical Care*, **2020**, 24, 475	10.8	17
205	Efficiently Enhanced Triplet□Triplet Annihilation Upconversion Boosted by Multibandgaps Photonic Crystals. *Journal of Physical Chemistry C*, **2020**, 124, 18482-18489	3.8	4
204	Modeling Endothelialized Hepatic Tumor Microtissues for Drug Screening. *Advanced Science*, **2020**, 7, 2002002	13.6	17
203	Dissolvable Microneedles Coupled with Nanofiber Dressings Eradicate Biofilms Effectively Delivering a Database-Designed Antimicrobial Peptide. *ACS Nano*, **2020**, 14, 11775-11786	16.7	53
202	The Delivery of Extracellular Vesicles Loaded in Biomaterial Scaffolds for Bone Regeneration. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 1015	5.8	14
201	Bioprinted Injectable Hierarchically Porous Gelatin Methacryloyl Hydrogel Constructs with Shape-Memory Properties. *Advanced Functional Materials*, **2020**, 30, 2003740	15.6	55
200	Fabrication of Thymoquinone-Loaded Albumin Nanoparticles by Microfluidic Particle Synthesis and Their Effect on Planarian Regeneration. *Macromolecular Bioscience*, **2019**, 19, e1900182	5.5	12
199	BSCI-16. HEMODYNAMIC SHEAR STRESS SELECTS A SUBPOPULATION OF LUNG ADENOCARCINOMA CELLS WITH HIGHER METASTATIC CAPACITY. *Neuro-Oncology Advances*, **2019**, 1, i4-i4	0.9	78
198	The Tumor-on-Chip: Recent Advances in the Development of Microfluidic Systems to Recapitulate the Physiology of Solid Tumors. *Materials*, **2019**, 12,	3.5	65
197	A miniaturized optical tomography platform for volumetric imaging of engineered living systems. *Lab on A Chip*, **2019**, 19, 550-561	7.2	7
196	A Foreign Body Response-on-a-Chip Platform. *Advanced Healthcare Materials*, **2019**, 8, e1801425	10.1	29
195	3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. *Advanced Materials*, **2019**, 31, e1806590	24	102
194	An injectable self-healing coordinative hydrogel with antibacterial and angiogenic properties for diabetic skin wound repair. *NPG Asia Materials*, **2019**, 11,	10.3	138
193	A Bioinspired Medical Adhesive Derived from Skin Secretion of Andrias davidianus for Wound Healing. *Advanced Functional Materials*, **2019**, 29, 1809110	15.6	68

192	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (Small 23/2019). *Small*, **2019**, 15, 1970126	11	50
191	Perforated and Endothelialized Elastomeric Tubes for Vascular Modeling. *Advanced Materials Technologies*, **2019**, 4, 1800741	6.8	3
190	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	5.5	10
189	Highly Porous Microcarriers for Minimally Invasive In Situ Skeletal Muscle Cell Delivery. *Small*, **2019**, 15, e1901397	11	51
188	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	2.8	5
187	Effective bioprinting resolution in tissue model fabrication. *Lab on A Chip*, **2019**, 19, 2019-2037	7.2	90
186	Generation of Cost-Effective Paper-Based Tissue Models through Matrix-Assisted Sacrificial 3D Printing. *Nano Letters*, **2019**, 19, 3603-3611	11.5	30
185	Osteosarcoma Therapy: Inhibition of CaMKII Activity Enhances Antitumor Effect of Fullerene C60 Nanocrystals by Suppression of Autophagic Degradation (Adv. Sci. 8/2019). *Advanced Science*, **2019**, 6, 1970051	13.6	78
184	3D Bioprinting: from Benches to Translational Applications. *Small*, **2019**, 15, e1805510	11	137
183	A Tumor-on-a-Chip System with Bioprinted Blood and Lymphatic Vessel Pair. *Advanced Functional Materials*, **2019**, 29, 1807173	15.6	67
182	Sacrificial Bioprinting of a Mammary Ductal Carcinoma Model. *Biotechnology Journal*, **2019**, 14, e1700703	3.6	12
181	Cancer Modeling: 3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics (Adv. Mater. 14/2019). *Advanced Materials*, **2019**, 31, 1970101	24	
180	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	1.7	3
179	Bioreactors for Cardiac Tissue Engineering. *Advanced Healthcare Materials*, **2019**, 8, e1701504	10.1	37
178	Hydrogel Bioink with Multilayered Interfaces Improves Dispersibility of Encapsulated Cells in Extrusion Bioprinting. *ACS Applied Materials & Interfaces*, **2019**, 11, 30585-30595	9.5	21
177	Bioprinting: A Tumor-on-a-Chip System with Bioprinted Blood and Lymphatic Vessel Pair (Adv. Funct. Mater. 31/2019). *Advanced Functional Materials*, **2019**, 29, 1970217	15.6	1
176	Tough Bonding, On-Demand Debonding, and Facile Rebonding between Hydrogels and Diverse Metal Surfaces. *Advanced Materials*, **2019**, 31, e1904732	24	52
175	Modeling and experimental investigation of polymer micropart demolding from a Zr-based bulk metallic glass mold. *Polymer Engineering and Science*, **2019**, 59, 2202-2210	2.3	1

174	Coaxial Extrusion of Tubular Tissue Constructs Using a Gelatin/GelMA Blend Bioink. *ACS Biomaterials Science and Engineering*, **2019**, 5, 5514-5524	5.5	33
173	Decorating 3D Printed Scaffolds with Electrospun Nanofiber Segments for Tissue Engineering. *Advanced Biology*, **2019**, 3, e1900137	3.5	14
172	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	5	23
171	Inhibition of Tet1- and Tet2-mediated DNA demethylation promotes immunomodulation of periodontal ligament stem cells. *Cell Death and Disease*, **2019**, 10, 780	9.8	16
170	Endothelialized microrods for minimally invasive in situ neovascularization. *Biofabrication*, **2019**, 12, 015011	10.5	5
169	A Modular, Reconfigurable Microfabricated Assembly Platform for Microfluidic Transport and Multitype Cell Culture and Drug Testing. *Micromachines*, **2019**, 11,	3.3	5
168	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	8.3	7
167	Accuracy of a 3-Dimensionally Printed Navigational Template for Localizing Small Pulmonary Nodules: A Noninferiority Randomized Clinical Trial. *JAMA Surgery*, **2019**, 154, 295-303	5.4	15
166	Fracture-Resistant and Bioresorbable Drug-Eluting Poly(glycerol Sebacate) Coils. *Advanced Therapeutics*, **2019**, 2, 1800109	4.9	4
165	Cardiac Fibrotic Remodeling on a Chip with Dynamic Mechanical Stimulation. *Advanced Healthcare Materials*, **2019**, 8, e1801146	10.1	33
164	Invited Article: Emerging soft bioelectronics for cardiac health diagnosis and treatment. *APL Materials*, **2019**, 7, 031301	5.7	24
163	Microfluidic technologies for local drug delivery **2019**, 281-305		2
162	Vascularized 3D printed scaffolds for promoting bone regeneration. *Biomaterials*, **2019**, 190-191, 97-110	15.6	171
161	Digital Breast Tomosynthesis imaging using compressed sensing based reconstruction for 10 radiation doses real data. *Biomedical Signal Processing and Control*, **2019**, 48, 26-34	4.9	3
160	Towards the development of human immune-system-on-a-chip platforms. *Drug Discovery Today*, **2019**, 24, 517-525	8.8	54
159	Supercritical Fluid-Assisted Porous Microspheres for Efficient Delivery of Insulin and Inhalation Therapy of Diabetes. *Advanced Healthcare Materials*, **2019**, 8, e1800910	10.1	16
158	Bioinks for 3D bioprinting: an overview. *Biomaterials Science*, **2018**, 6, 915-946	7.4	488
157	Injectable shear-thinning hydrogels for delivering osteogenic and angiogenic cells and growth factors. *Biomaterials Science*, **2018**, 6, 1604-1615	7.4	44

156	Targeted-gene silencing of BRAF to interrupt BRAF/MEK/ERK pathway synergized photothermal therapeutics for melanoma using a novel FA-GNR-siBRAF nanosystem. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2018**, 14, 1679-1693	6	10
155	Life as an early career researcher: interview with Yu Shrike Zhang. *Future Science OA*, **2018**, 4, FSO262	2.7	
154	Fabrication of whole-thermoplastic normally closed microvalve, micro check valve, and micropump. *Sensors and Actuators B: Chemical*, **2018**, 262, 625-636	8.5	35
153	Electrically Driven Microengineered Bioinspired Soft Robots. *Advanced Materials*, **2018**, 30, 1704189	24	94
152	Bioinspired Universal Flexible Elastomer-Based Microchannels. *Small*, **2018**, 14, e1702170	11	28
151	Three-Dimensional Bioprinting Strategies for Tissue Engineering. *Cold Spring Harbor Perspectives in Medicine*, **2018**, 8,	5.4	43
150	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	8.5	70
149	Imaging Biomaterial-Tissue Interactions. *Trends in Biotechnology*, **2018**, 36, 403-414	15.1	27
148	Protein/polysaccharide-based scaffolds mimicking native extracellular matrix for cardiac tissue engineering applications. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 769-781	5.4	45
147	Starting a Medical Technology Venture as a Young Academic Innovator or Student Entrepreneur. *Annals of Biomedical Engineering*, **2018**, 46, 1-13	4.7	8
146	Visible light crosslinkable human hair keratin hydrogels. *Bioengineering and Translational Medicine*, **2018**, 3, 37-48	14.8	38
145	A Dual-layered Microfluidic System for Long-term Controlled In Situ Delivery of Multiple Anti-inflammatory Factors for Chronic Neural Applications. *Advanced Functional Materials*, **2018**, 28, 1702009	15.6	16
144	Hydrogen sulfide maintains dental pulp stem cell function via TRPV1-mediated calcium influx. *Cell Death Discovery*, **2018**, 4, 1	6.9	16
143	Chaotic printing: using chaos to fabricate densely packed micro- and nanostructures at high resolution and speed. *Materials Horizons*, **2018**, 5, 813-822	14.4	20
142	Circulating apoptotic bodies maintain mesenchymal stem cell homeostasis and ameliorate osteopenia via transferring multiple cellular factors. *Cell Research*, **2018**, 28, 918-933	24.7	70
141	Microfluidics-Enabled Multimaterial Maskless Stereolithographic Bioprinting. *Advanced Materials*, **2018**, 30, e1800242	24	190
140	Hydrogen sulfide promotes immunomodulation of gingiva-derived mesenchymal stem cells via the Fas/FasL coupling pathway. *Stem Cell Research and Therapy*, **2018**, 9, 62	8.3	22
139	Digitally Tunable Microfluidic Bioprinting of Multilayered Cannular Tissues. *Advanced Materials*, **2018**, 30, e1706913	24	134

138	A novel mutation of MSX1 in oligodontia inhibits odontogenesis of dental pulp stem cells via the ERK pathway. *Stem Cell Research and Therapy*, **2018**, 9, 221	8.3	8
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