Ali Khademhosseini

List of Publications by Year
in descending order

780 papers	97,598 citations	168 157 h-index	468 278 g-index
875 all docs	875 docs citations	875 times ranked	76964 citing authors

#	Article	IF	Citations
1	Recent Advances in Bioinspired Hydrogels: Materials, Devices, and Biosignal Computing. ACS Biomaterials Science and Engineering, 2023, 9, 2048-2069.	2.6	27
2	Multi-material digital light processing bioprinting of hydrogel-based microfluidic chips. Biofabrication, 2022, 14, 014103.	3.7	42
3	Engineering liver microtissues to study the fusion of HepG2 with mesenchymal stem cells and invasive potential of fused cells. Biofabrication, 2022, 14, 014104.	3.7	5
4	Droplet-based microfluidics in biomedical applications. Biofabrication, 2022, 14, 022001.	3.7	50
5	Engineering hairy cellulose nanocrystals for chemotherapy drug capture. Materials Today Chemistry, 2022, 23, 100711.	1.7	6
6	Templateâ€Enabled Biofabrication of Thick 3D Tissues with Patterned Perfusable Macrochannels. Advanced Healthcare Materials, 2022, 11, e2102123.	3.9	10
7	Laponiteâ€Based Nanomaterials for Drug Delivery. Advanced Healthcare Materials, 2022, 11, e2102054.	3.9	48
8	pH-Responsive doxorubicin delivery using shear-thinning biomaterials for localized melanoma treatment. Nanoscale, 2022, 14, 350-360.	2.8	15
9	Immunomodulatory microneedle patch for periodontal tissue regeneration. Matter, 2022, 5, 666-682.	5.0	49
10	Labâ€onâ€aâ€Contact Lens: Recent Advances and Future Opportunities in Diagnostics and Therapeutics. Advanced Materials, 2022, 34, e2108389.	11.1	48
11	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices. Advanced Materials, 2022, 34, e2200254.	11.1	18
12	Selfâ€Plugging Microneedle (SPM) for Intravitreal Drug Delivery. Advanced Healthcare Materials, 2022, 11, e2102599.	3.9	14
13	Stabilizing the Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ | Li Interface for High Efficiency and Long Lifespan Quasiâ€Solidâ€State Lithium Metal Batteries. ChemSusChem, 2022, 15, .	3.6	11
14	Receptorâ€Level Proximity and Fastening of Ligands Modulates Stem Cell Differentiation. Advanced Functional Materials, 2022, 32, .	7.8	11
15	Assessing the aneurysm occlusion efficacy of a shear-thinning biomaterial in a 3D-printed model. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 130, 105156.	1.5	3
16	Additively manufactured metallic biomaterials. Bioactive Materials, 2022, 15, 214-249.	8.6	75
17	Epidermisâ€Inspired Wearable Piezoresistive Pressure Sensors Using Reduced Graphene Oxide Selfâ€Wrapped Copper Nanowire Networks. Small Methods, 2022, 6, e2100900.	4.6	38
18	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing. Biomaterials, 2022, 285, 121479.	5.7	68

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19	Immunotherapeutic nanoparticles: From autoimmune disease control to the development of vaccines. , 2022, 135, 212726.		12
20	Coâ€Electrospun Silk Fibroin and Gelatin Methacryloyl Sheet Seeded with Mesenchymal Stem Cells for Tendon Regeneration. Small, 2022, 18, e2107714.	5.2	23
21	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). Advanced Materials, 2022, 34, .	11.1	1
22	Engineered Hemostatic Biomaterials for Sealing Wounds. Chemical Reviews, 2022, 122, 12864-12903.	23.0	79
23	<scp>Twoâ€dimensional</scp> metal organic frameworks for biomedical applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1674.	3.3	27
24	Biofabrication of endothelial cell, dermal fibroblast, and multilayered keratinocyte layers for skin tissue engineering. Biofabrication, 2021, 13, 035030.	3.7	54
25	Strategies for antimicrobial peptide coatings on medical devices: a review and regulatory science perspective. Critical Reviews in Biotechnology, 2021, 41, 94-120.	5.1	89
26	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
27	Nanocomposite Hydrogel with Tantalum Microparticles for Rapid Endovascular Hemostasis. Advanced Science, 2021, 8, 2003327.	5.6	23
28	Three-dimensionally printable shear-thinning triblock copolypeptide hydrogels with antimicrobial potency. Biomaterials Science, 2021, 9, 5144-5149.	2.6	8
29	Hybrid Nanosystems for Biomedical Applications. ACS Nano, 2021, 15, 2099-2142.	7.3	100
30	A Sub-1-V, Microwatt Power-Consumption Iontronic Pressure Sensor Based on Organic Electrochemical Transistors. IEEE Electron Device Letters, 2021, 42, 46-49.	2.2	27
31	Strategies towards enabling lithium metal in batteries: interphases and electrodes. Energy and Environmental Science, 2021, 14, 5289-5314.	15.6	156
32	Fibrous Systems as Potential Solutions for Tendon and Ligament Repair, Healing, and Regeneration. Advanced Healthcare Materials, 2021, 10, e2001305.	3.9	35
33	AdvancedIn VitroModeling to Study the Paradox of Mechanically Induced Cardiac Fibrosis. Tissue Engineering - Part C: Methods, 2021, 27, 100-114.	1.1	9
34	Recent advances in 3D bioprinting of musculoskeletal tissues. Biofabrication, 2021, 13, 022001.	3.7	47
35	X-ray-Based Techniques to Study the Nanoâ€“Bio Interface. ACS Nano, 2021, 15, 3754-3807.	7.3	60
36	Continuous chaotic bioprinting of skeletal muscle-like constructs. Bioprinting, 2021, 21, e00125.	2.9	35

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37	Bioengineered Multicellular Liver Microtissues for Modeling Advanced Hepatic Fibrosis Driven Through Nonâ€Alcoholic Fatty Liver Disease. Small, 2021, 17, e2007425.	5.2	20
38	Suturable elastomeric tubular grafts with patterned porosity for rapid vascularization of 3D constructs. Biofabrication, 2021, 13, 035020.	3.7	11
39	Multiâ€Dimensional Printing for Bone Tissue Engineering. Advanced Healthcare Materials, 2021, 10, e2001986.	3.9	41
40	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
41	In situ 3D printing of implantable energy storage devices. Chemical Engineering Journal, 2021, 409, 128213.	6.6	21
42	Injectable openâ€porous <scp>PLGA</scp> microspheres as cell carriers for cartilage regeneration. Journal of Biomedical Materials Research - Part A, 2021, 109, 2091-2100.	2.1	26
43	Graphene Quantum Dots for Fluorescent Labeling of Gelatinâ€Based Shearâ€Thinning Hydrogels. Advanced NanoBiomed Research, 2021, 1, 2000113.	1.7	6
44	Smart Contact Lenses for Biosensing Applications. Advanced Intelligent Systems, 2021, 3, 2170047.	3.3	3
45	Smart Contact Lenses for Biosensing Applications. Advanced Intelligent Systems, 2021, 3, 2000263.	3.3	50
46	Refractive Index Sensing for Measuring Single Cell Growth. ACS Nano, 2021, 15, 10710-10721.	7.3	12
47	Additively Manufactured Gradient Porous Tiâ€“6Alâ€“4V Hip Replacement Implants Embedded with Cell-Laden Gelatin Methacryloyl Hydrogels. ACS Applied Materials & Interfaces, 2021, 13, 22110-22123.	4.0	56
48	Novel Dual-Lumen Drainage Catheter to Enhance the Active Evacuation of Complex Fluid Collections. Journal of Vascular and Interventional Radiology, 2021, 32, 882-889.	0.2	3
49	Highly Stable Quasiâ€Solidâ€State Lithium Metal Batteries: Reinforced Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃/Li Interface by a Protection Interlayer. Advanced Energy Materials, 2021, 11, 2101339.	10.2	62
50	Graphene Quantum Dots for Fluorescent Labeling of Gelatinâ€Based Shearâ€Thinning Hydrogels. Advanced NanoBiomed Research, 2021, 1, 2170073.	1.7	0
51	Micro and Nanoscale Technologies for Diagnosis of Viral Infections. Small, 2021, 17, e2100692.	5.2	16
52	Whitlockite-Enabled Hydrogel for Craniofacial Bone Regeneration. ACS Applied Materials & Interfaces, 2021, 13, 35342-35355.	4.0	13
53	Stretchable and Bioadhesive Gelatin Methacryloyl-Based Hydrogels Enabled by in Situ Dopamine Polymerization. ACS Applied Materials & Interfaces, 2021, 13, 40290-40301.	4.0	72
54	Ultrathin-shell epitaxial Ag@Au core-shell nanowires for high-performance and chemically-stable electronic, optical, and mechanical devices. Nano Research, 2021, 14, 4294-4303.	5.8	35

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55	Multimaterial bioprinting and combination of processing techniques towards the fabrication of biomimetic tissues and organs. Biofabrication, 2021, 13, 042002.	3.7	42
56	Harnessing the wide-range strain sensitivity of bilayered PEDOT:PSS films for wearable health monitoring. Matter, 2021, 4, 2886-2901.	5.0	59
57	Reconstructing the tumor architecture into organoids. Advanced Drug Delivery Reviews, 2021, 176, 113839.	6.6	20
58	Multifunctional Thermoresponsive Microcarriers for Highâ€Throughput Cell Culture and Enzymeâ€Free Cell Harvesting. Small, 2021, 17, e2103192.	5.2	15
59	Advances and challenges in bioprinting of biological tissues and organs. Artificial Organs, 2021, 45, 1441-1445.	1.0	3
60	State of the art in integrated biosensors for organ-on-a-chip applications. Current Opinion in Biomedical Engineering, 2021, 19, 100309.	1.8	34
61	Healthy and diseased in vitro models of vascular systems. Lab on A Chip, 2021, 21, 641-659.	3.1	18
62	Recent developments in mussel-inspired materials for biomedical applications. Biomaterials Science, 2021, 9, 6653-6672.	2.6	42
63	Cancerâ€onâ€aâ€Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. Small, 2021, 17, e2004282.	5.2	30
64	Toward a neurospheroid niche model: optimizing embedded 3D bioprinting for fabrication of neurospheroid brain-like co-culture constructs. Biofabrication, 2021, 13, 015014.	3.7	32
65	Nanoengineered Antiviral Fibrous Arrays with Rose-Thorn-Inspired Architectures. , 2021, 3, 1566-1571.		5
66	Nanoengineered Shear-Thinning Hydrogel Barrier for Preventing Postoperative Abdominal Adhesions. Nano-Micro Letters, 2021, 13, 212.	14.4	28
67	Advances in Controlled Oxygen Generating Biomaterials for Tissue Engineering and Regenerative Therapy. Biomacromolecules, 2020, 21, 56-72.	2.6	76
68	Key components of engineering vascularized 3-dimensional bioprinted bone constructs. Translational Research, 2020, 216, 57-76.	2.2	61
69	Microphysiological Systems: Next Generation Systems for Assessing Toxicity and Therapeutic Effects of Nanomaterials. Small Methods, 2020, 4, 1900589.	4.6	37
70	Customizable Composite Fibers for Engineering Skeletal Muscle Models. ACS Biomaterials Science and Engineering, 2020, 6, 1112-1123.	2.6	29
71	Roomâ€Temperatureâ€Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics. Advanced Materials, 2020, 32, e1904752.	11.1	158
72	Hydrogels: Roomâ€Temperatureâ€Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics (Adv. Mater. 1/2020). Advanced Materials, 2020, 32, 2070005.	11.1	3

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73	3D-Printed Ultra-Robust Surface-Doped Porous Silicone Sensors for Wearable Biomonitoring. ACS Nano, 2020, 14, 1520-1532.	7.3	151
74	Non-transdermal microneedles for advanced drug delivery. Advanced Drug Delivery Reviews, 2020, 165-166, 41-59.	6.6	80
75	Hydrogelâ€Enabled Transferâ€Printing of Conducting Polymer Films for Soft Organic Bioelectronics. Advanced Functional Materials, 2020, 30, 1906016.	7.8	55
76	Sacrificial 3D printing of shrinkable silicone elastomers for enhanced feature resolution in flexible tissue scaffolds. Acta Biomaterialia, 2020, 117, 261-272.	4.1	32
77	Engineering Antiviral Vaccines. ACS Nano, 2020, 14, 12370-12389.	7.3	50
78	Microengineered poly(HEMA) hydrogels for wearable contact lens biosensing. Lab on A Chip, 2020, 20, 4205-4214.	3.1	27
79	Micro and nanoscale technologies in oral drug delivery. Advanced Drug Delivery Reviews, 2020, 157, 37-62.	6.6	123
80	Wearable Tactile Sensors: Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.8	6
81	Preparation of Poly(ether-ether-ketone)/Nanohydroxyapatite Composites with Improved Mechanical Performance and Biointerfacial Affinity. ACS Omega, 2020, 5, 29398-29406.	1.6	12
82	Terasaki Institute: Innovating Personalized Health through Convergent Science and Bioengineering. Matter, 2020, 3, 324-326.	5.0	0
83	Biodegradable microneedle patch for transdermal gene delivery. Nanoscale, 2020, 12, 16724-16729.	2.8	57
84	Crosslinking Strategies for 3D Bioprinting of Polymeric Hydrogels. Small, 2020, 16, e2002931.	5.2	157
85	Cholesteryl Ester Liquid Crystal Nanofibers for Tissue Engineering Applications. , 2020, 2, 1067-1073.		23
86	In situ forming microporous gelatin methacryloyl hydrogel scaffolds from thermostable microgels for tissue engineering. Bioengineering and Translational Medicine, 2020, 5, e10180.	3.9	33
87	Thrombolytic Agents: Nanocarriers in Controlled Release. Small, 2020, 16, e2001647.	5.2	32
88	Screening Cancer Immunotherapy: When Engineering Approaches Meet Artificial Intelligence. Advanced Science, 2020, 7, 2001447.	5.6	30
89	3D Bioprinting: Crosslinking Strategies for 3D Bioprinting of Polymeric Hydrogels (Small 35/2020). Small, 2020, 16, 2070195.	5.2	3
90	An Alkaline Based Method for Generating Crystalline, Strong, and Shape Memory Polyvinyl Alcohol Biomaterials. Advanced Science, 2020, 7, 1902740.	5.6	73

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91	Combined Effects of Electric Stimulation and Microgrooves in Cardiac Tissueâ€onâ€aâ€Chip for Drug Screening. Small Methods, 2020, 4, 2000438.	4.6	15
92	Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables. Advanced Functional Materials, 2020, 30, 2003601.	7.8	112
93	Biodegradable Î²â€Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Waterâ€Insoluble Drug. Advanced Healthcare Materials, 2020, 9, e2000527.	3.9	91
94	Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAPâ€Mediated Mechanosensing. Small, 2020, 16, e2001837.	5.2	25
95	A Pulsatile Flow System to Engineer Aneurysm and Atherosclerosis Mimetic Extracellular Matrix. Advanced Science, 2020, 7, 2000173.	5.6	17
96	CRISPR-Cas12a delivery by DNA-mediated bioresponsive editing for cholesterol regulation. Science Advances, 2020, 6, eaba2983.	4.7	77
97	Extrusion and Microfluidicâ€Based Bioprinting to Fabricate Biomimetic Tissues and Organs. Advanced Materials Technologies, 2020, 5, 1901044.	3.0	110
98	Gut-on-a-chip: Current progress and future opportunities. Biomaterials, 2020, 255, 120196.	5.7	117
99	3D Bioprinting of Oxygenated Cellâ€Laden Gelatin Methacryloyl Constructs. Advanced Healthcare Materials, 2020, 9, e1901794.	3.9	80
100	Microfluidicâ€Based Approaches in Targeted Cell/Particle Separation Based on Physical Properties: Fundamentals and Applications. Small, 2020, 16, e2000171.	5.2	121
101	Effect of cell imprinting on viability and drug susceptibility of breast cancer cells to doxorubicin. Acta Biomaterialia, 2020, 113, 119-129.	4.1	13
102	Multi-scale cellular engineering: From molecules to organ-on-a-chip. APL Bioengineering, 2020, 4, 010906.	3.3	8
103	Stimuliâ€Responsive Delivery of Growth Factors for Tissue Engineering. Advanced Healthcare Materials, 2020, 9, e1901714.	3.9	86
104	Angiogenesis: Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAPâ€Mediated Mechanosensing (Small 25/2020). Small, 2020, 16, 2070142.	5.2	0
105	Type V Collagen in Scar Tissue Regulates the Size of Scar after Heart Injury. Cell, 2020, 182, 545-562.e23.	13.5	113
106	Engineering in vitro human tissue models through bio-design and manufacturing. Bio-Design and Manufacturing, 2020, 3, 155-159.	3.9	29
107	Tissue Engineering: Synthetic Biology and Tissue Engineering: Toward Fabrication of Complex and Smart Cellular Constructs (Adv. Funct. Mater. 26/2020). Advanced Functional Materials, 2020, 30, 2070169.	7.8	0
108	Engineered hydrogels for brain tumor culture and therapy. Bio-Design and Manufacturing, 2020, 3, 203-226.	3.9	24

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109	Cells and Surfaces in Vitro. , 2020, , 661-681.		3
110	Engineered biomaterials for in situ tissue regeneration. Nature Reviews Materials, 2020, 5, 686-705.	23.3	420
111	Hydrogelâ€Enabled Transfer Printing: Hydrogelâ€Enabled Transferâ€Printing of Conducting Polymer Films for Soft Organic Bioelectronics (Adv. Funct. Mater. 6/2020). Advanced Functional Materials, 2020, 30, 2070038.	7.8	2
112	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. Small, 2020, 16, e1905910.	5.2	104
113	Overcoming the Interfacial Limitations Imposed by the Solidâ€“Solid Interface in Solidâ€State Batteries Using Ionic Liquidâ€Based Interlayers. Small, 2020, 16, e2000279.	5.2	75
114	Synthetic Biology and Tissue Engineering: Toward Fabrication of Complex and Smart Cellular Constructs. Advanced Functional Materials, 2020, 30, 1909882.	7.8	19
115	Synthesis of Injectable Shearâ€Thinning Biomaterials of Various Compositions of Gelatin and Synthetic Silicate Nanoplatelet. Biotechnology Journal, 2020, 15, e1900456.	1.8	25
116	Polymerâ€“Mesoporous Silica Nanoparticle Coreâ€“Shell Nanofibers as a Dual-Drug-Delivery System for Guided Tissue Regeneration. ACS Applied Nano Materials, 2020, 3, 1457-1467.	2.4	49
117	Engineering Biomaterials with Micro/Nanotechnologies for Cell Reprogramming. ACS Nano, 2020, 14, 1296-1318.	7.3	39
118	Incorporation of Graphene Quantum Dots, Iron, and Doxorubicin in/on Ferritin Nanocages for Bimodal Imaging and Drug Delivery. Advanced Therapeutics, 2020, 3, 1900183.	1.6	28
119	The bioprinting roadmap. Biofabrication, 2020, 12, 022002.	3.7	291
120	Microneedle drug eluting balloon for enhanced drug delivery to vascular tissue. Journal of Controlled Release, 2020, 321, 174-183.	4.8	38
121	Embryonic stem cells as a cell source for tissue engineering. , 2020, , 467-490.		8
122	Ferrous sulfate-directed dual-cross-linked hyaluronic acid hydrogels with long-term delivery of donepezil. International Journal of Pharmaceutics, 2020, 582, 119309.	2.6	33
123	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. Biofabrication, 2020, 12, 035023.	3.7	43
124	Engineering Tough, Injectable, Naturally Derived, Bioadhesive Composite Hydrogels. Advanced Healthcare Materials, 2020, 9, e1901722.	3.9	78
125	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. Advanced Functional Materials, 2020, 30, 2000086.	7.8	91
126	Microneedle Patches: Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid (Small 16/2020). Small, 2020, 16, 2070086.	5.2	4

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127	Mesoporous silica rods with cone shaped pores modulate inflammation and deliver BMP-2 for bone regeneration. Nano Research, 2020, 13, 2323-2331.	5.8	39
128	Microfluidics in biofabrication. Biofabrication, 2020, 12, 030201.	3.7	10
129	Vascular Tissue Engineering: The Role of 3D Bioprinting. , 2020, , 321-338.		6
130	Rhodamine Conjugated Gelatin Methacryloyl Nanoparticles for Stable Cell Imaging. ACS Applied Bio Materials, 2020, 3, 6908-6918.	2.3	12
131	Electrospun Nanofibrous Membranes for Preventing Tendon Adhesion. ACS Biomaterials Science and Engineering, 2020, 6, 4356-4376.	2.6	21
132	Growing Contributions of Nano in 2020. ACS Nano, 2020, 14, 16163-16164.	7.3	1
133	Enhancement of label-free biosensing of cardiac troponin I. , 2020, 11251, .		7
134	Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cellâ€“based cartilage tissue engineering. Science Advances, 2020, 6, eaaz5913.	4.7	42
135	Vascular Tissue Engineering: The Role of 3D Bioprinting. , 2020, , 1-18.		0
136	News and Views March 2020. Regenerative Engineering and Translational Medicine, 2020, 6, 111-113.	1.6	0
137	Minimally Invasive Technologies for Biosensing. , 2020, , 193-223.		0
138	Multiscale bioprinting of vascularized models. Biomaterials, 2019, 198, 204-216.	5.7	191
139	Applications of Nanotechnology for Regenerative Medicine; Healing Tissues at the Nanoscale. , 2019, , 485-504.		20
140	Bioreactors for Cardiac Tissue Engineering. Advanced Healthcare Materials, 2019, 8, e1701504.	3.9	51
141	Targeted cell delivery for articular cartilage regeneration and osteoarthritis treatment. Drug Discovery Today, 2019, 24, 2212-2224.	3.2	32
142	Modular fabrication of intelligent material-tissue interfaces for bioinspired and biomimetic devices. Progress in Materials Science, 2019, 106, 100589.	16.0	72
143	The emergence of 3D bioprinting in organ-on-chip systems. Progress in Biomedical Engineering, 2019, 1, 012001.	2.8	67
144	Charge-switchable polymeric complex for glucose-responsive insulin delivery in mice and pigs. Science Advances, 2019, 5, eaaw4357.	4.7	104

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145	Microengineered Emulsion-to-Powder Technology for the High-Fidelity Preservation of Molecular, Colloidal, and Bulk Properties of Hydrogel Suspensions. ACS Applied Polymer Materials, 2019, 1, 1935-1941.	2.0	5
146	Modular microporous hydrogels formed from microgel beads with orthogonal thermo-chemical responsivity: Microfluidic fabrication and characterization. MethodsX, 2019, 6, 1747-1752.	0.7	23
147	3D printing of step-gradient nanocomposite hydrogels for controlled cell migration. Biofabrication, 2019, 11, 045015.	3.7	21
148	Nanoparticle-Based Hybrid Scaffolds for Deciphering the Role of Multimodal Cues in Cardiac Tissue Engineering. ACS Nano, 2019, 13, 12525-12539.	7.3	101
149	Models of the Gut for Analyzing the Impact of Food and Drugs. Advanced Healthcare Materials, 2019, 8, e1900968.	3.9	32
150	Functional Nanomaterials on 2D Surfaces and in 3D Nanocomposite Hydrogels for Biomedical Applications. Advanced Functional Materials, 2019, 29, 1904344.	7.8	58
151	Regenerative Therapies for Spinal Cord Injury. Tissue Engineering - Part B: Reviews, 2019, 25, 471-491.	2.5	100
152	Stimuli-responsive hydrogels for manipulation of cell microenvironment: From chemistry to biofabrication technology. Progress in Polymer Science, 2019, 98, 101147.	11.8	120
153	Multi Use Microfluidic Biosensors for Continual Monitoring of Biomarkers from Microphysiological Systems. , 2019, , .		2
154	A Foreign Body Responseâ€onâ€aâ€Chip Platform. Advanced Healthcare Materials, 2019, 8, e1801425.	3.9	51
155	Evaluation of an elastic decellularized tendonâ€derived scaffold for the vascular tissue engineering application. Journal of Biomedical Materials Research - Part A, 2019, 107, 1225-1234.	2.1	22
156	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth MÃ¶hwald. ACS Nano, 2019, 13, 6151-6169.	7.3	211
157	A Human Liverâ€onâ€aâ€Chip Platform for Modeling Nonalcoholic Fatty Liver Disease. Advanced Biology, 2019, 3, e1900104.	3.0	50
158	Nanoscience and Nanotechnology at UCLA. ACS Nano, 2019, 13, 6127-6129.	7.3	1
159	Bioprinters for organs-on-chips. Biofabrication, 2019, 11, 042002.	3.7	71
160	Electrically conductive nanomaterials for cardiac tissue engineering. Advanced Drug Delivery Reviews, 2019, 144, 162-179.	6.6	137
161	Physics of bioprinting. Applied Physics Reviews, 2019, 6, .	5.5	32
162	Advances in Biomaterials and Technologies for Vascular Embolization. Advanced Materials, 2019, 31, e1901071.	11.1	133

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163	Flexible and Stretchable PEDOTâ€Embedded Hybrid Substrates for Bioengineering and Sensory Applications. ChemNanoMat, 2019, 5, 729-737.	1.5	15
164	Effective bioprinting resolution in tissue model fabrication. Lab on A Chip, 2019, 19, 2019-2037.	3.1	148
165	3D Bioprinting in Skeletal Muscle Tissue Engineering. Small, 2019, 15, e1805530.	5.2	192
166	Biocompatible Carbon Nanotube-Based Hybrid Microfiber for Implantable Electrochemical Actuator and Flexible Electronic Applications. ACS Applied Materials & Interfaces, 2019, 11, 20615-20627.	4.0	36
167	Engineering Hydrogels beyond a Hydrated Network. Advanced Healthcare Materials, 2019, 8, e1900038.	3.9	8
168	Mechanical and Biochemical Stimulation of 3D Multilayered Scaffolds for Tendon Tissue Engineering. ACS Biomaterials Science and Engineering, 2019, 5, 2953-2964.	2.6	66
169	Anti-fibrotic Effects of Cardiac Progenitor Cells in a 3D-Model of Human Cardiac Fibrosis. Frontiers in Cardiovascular Medicine, 2019, 6, 52.	1.1	27
170	Anti-IL-6 eluting immunomodulatory biomaterials prolong skin allograft survival. Scientific Reports, 2019, 9, 6535.	1.6	39
171	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. ACS Nano, 2019, 13, 3830-3838.	7.3	105
172	A Microfabricated Sandwiching Assay for Nanoliter and Highâ€Throughput Biomarker Screening. Small, 2019, 15, e1900300.	5.2	18
173	Sutureless repair of corneal injuries using naturally derived bioadhesive hydrogels. Science Advances, 2019, 5, eaav1281.	4.7	229
174	Silk fibroin scaffolds for common cartilage injuries: Possibilities for future clinical applications. European Polymer Journal, 2019, 115, 251-267.	2.6	71
175	Breathable hydrogel dressings containing natural antioxidants for management of skin disorders. Journal of Biomaterials Applications, 2019, 33, 1265-1276.	1.2	30
176	Aligned Cellâ€Laden Yarns: Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cellâ€Laden Hydrogel Yarns (Adv. Healthcare Mater. 7/2019). Advanced Healthcare Materials, 2019, 8, 1970025.	3.9	1
177	Bone Bioprinting: Advancing Frontiers in Bone Bioprinting (Adv. Healthcare Mater. 7/2019). Advanced Healthcare Materials, 2019, 8, 1970030.	3.9	3
178	Highâ€Throughput Drug Screening: A Microfabricated Sandwiching Assay for Nanoliter and Highâ€Throughput Biomarker Screening (Small 15/2019). Small, 2019, 15, 1970078.	5.2	1
179	In situ three-dimensional printing for reparative and regenerative therapy. Biomedical Microdevices, 2019, 21, 42.	1.4	61
180	A simple layer-stacking technique to generate biomolecular and mechanical gradients in photocrosslinkable hydrogels. Biofabrication, 2019, 11, 025014.	3.7	24

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