Ali Khademhosseini

List of Publications by Year in Descending Order

748 papers	74,401 citations	140 h-index	245 g-index
875 ext. papers	85,913 ext. citations	10.5 avg, IF	8.36 L-index

#	Paper	IF	Citations
748	Laponite-based Nanomaterials For Drug Delivery.. *Advanced Healthcare Materials*, **2022**, e2102054	10.1	2
747	Immunomodulatory Microneedle Patch for Periodontal Tissue Regeneration.. *Matter*, **2022**, 5, 666-682	12.7	4
746	Lab-on-a-Contact Lens: Recent Advances and Future Opportunities in Diagnostics and Therapeutics.. *Advanced Materials*, **2022**, e2108389	24	8
745	Engineering hairy cellulose nanocrystals for chemotherapy drug capture.. *Materials Today Chemistry* , **2022**, 23, 100711-100711	6.2	1
744	A readily scalable, clinically demonstrated, antibiofouling zwitterionic surface treatment for implantable medical devices.. *Advanced Materials*, **2022**, e2200254	24	1
743	Self-plugging microneedle (SPM) for intravitreal drug delivery.. *Advanced Healthcare Materials*, **2022**, e2102599	10.1	4
742	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	4.1	1
741	Additively manufactured metallic biomaterials.. *Bioactive Materials*, **2022**, 15, 214-249	16.7	16
740	Epidermis-Inspired Wearable Piezoresistive Pressure Sensors Using Reduced Graphene Oxide Self-Wrapped Copper Nanowire Networks.. *Small Methods*, **2022**, 6, e2100900	12.8	5
739	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing.. *Biomaterials*, **2022**, 285, 121479	15.6	6
738	Immunotherapeutic nanoparticles: From autoimmune disease control to the development of vaccines. **2022**, 212726		1
737	Co-Electrospun Silk Fibroin and Gelatin Methacryloyl Sheet Seeded with Mesenchymal Stem Cells for Tendon Regeneration.. *Small*, **2022**, e2107714	11	7
736	A Readily Scalable, Clinically Demonstrated, Antibiofouling Zwitterionic Surface Treatment for Implantable Medical Devices (Adv. Mater. 20/2022). *Advanced Materials*, **2022**, 34, 2270152	24	
735	Template-Enabled Biofabrication of Thick Three-Dimensional Tissues with Patterned Perfusable Macro-Channels.. *Advanced Healthcare Materials*, **2021**, e2102123	10.1	2
734	Engineering liver microtissues to study the fusion of HepG2 with mesenchymal stem cells and invasive potential of fused cells. *Biofabrication*, **2021**, 14,	10.5	1
733	Droplet-based microfluidics in biomedical applications. *Biofabrication*, **2021**,	10.5	7
732	Recent Advances in Bioinspired Hydrogels: Materials, Devices, and Biosignal Computing. *ACS Biomaterials Science and Engineering*, **2021**,	5.5	4

731	Nanoengineered Antiviral Fibrous Arrays with Rose-Thorn-Inspired Architectures **2021**, 3, 1566-1571		2
730	Multi-material digital light processing bioprinting of hydrogel-based microfluidic chips. *Biofabrication*, **2021**, 14,	10.5	3
729	Nanoengineered Shear-Thinning Hydrogel Barrier for Preventing Postoperative Abdominal Adhesions. *Nano-Micro Letters*, **2021**, 13, 212	19.5	4
728	X-ray-Based Techniques to Study the Nano-Bio Interface. *ACS Nano*, **2021**, 15, 3754-3807	16.7	18
727	Continuous chaotic bioprinting of skeletal muscle-like constructs. *Bioprinting*, **2021**, 21, e00125	7	16
726	Bioengineered Multicellular Liver Microtissues for Modeling Advanced Hepatic Fibrosis Driven Through Non-Alcoholic Fatty Liver Disease. *Small*, **2021**, 17, e2007425	11	10
725	Suturable elastomeric tubular grafts with patterned porosity for rapid vascularization of 3D constructs. *Biofabrication*, **2021**,	10.5	4
724	Multi-Dimensional Printing for Bone Tissue Engineering. *Advanced Healthcare Materials*, **2021**, 10, e2001986	10.1	13
723	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	
722	In situ 3D printing of implantable energy storage devices. *Chemical Engineering Journal*, **2021**, 409, 128213	14.7	7
721	Injectable open-porous PLGA microspheres as cell carriers for cartilage regeneration. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 2091-2100	5.4	9
720	Graphene Quantum Dots for Fluorescent Labeling of Gelatin-Based Shear-Thinning Hydrogels. *Advanced NanoBiomed Research*, **2021**, 1, 2000113	0	2
719	Smart Contact Lenses for Biosensing Applications. *Advanced Intelligent Systems*, **2021**, 3, 2170047	6	
718	Smart Contact Lenses for Biosensing Applications. *Advanced Intelligent Systems*, **2021**, 3, 2000263	6	18
717	Refractive Index Sensing for Measuring Single Cell Growth. *ACS Nano*, **2021**, 15, 10710-10721	16.7	2
716	Additively Manufactured Gradient Porous Ti-6Al-4V Hip Replacement Implants Embedded with Cell-Laden Gelatin Methacryloyl Hydrogels. *ACS Applied Materials & Interfaces*, **2021**, 13, 22110-22123	9.5	26
715	Novel Dual-Lumen Drainage Catheter to Enhance the Active Evacuation of Complex Fluid Collections. *Journal of Vascular and Interventional Radiology*, **2021**, 32, 882-889	2.4	0
714	Highly Stable Quasi-Solid-State Lithium Metal Batteries: Reinforced Li1.3Al0.3Ti1.7(PO4)3/Li Interface by a Protection Interlayer. *Advanced Energy Materials*, **2021**, 11, 2101339	21.8	9

713	Graphene Quantum Dots for Fluorescent Labeling of Gelatin-Based Shear-Thinning Hydrogels. *Advanced NanoBiomed Research*, **2021**, 1, 2170073	0	
712	Micro and Nanoscale Technologies for Diagnosis of Viral Infections. *Small*, **2021**, 17, e2100692	11	5
711	Two-dimensional metal organic frameworks for biomedical applications. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2021**, 13, e1674	9.2	15
710	Strategies for antimicrobial peptide coatings on medical devices: a review and regulatory science perspective. *Critical Reviews in Biotechnology*, **2021**, 41, 94-120	9.4	39
709	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
708	Three-dimensionally printable shear-thinning triblock copolypeptide hydrogels with antimicrobial potency. *Biomaterials Science*, **2021**, 9, 5144-5149	7.4	3
707	Hybrid Nanosystems for Biomedical Applications. *ACS Nano*, **2021**, 15, 2099-2142	16.7	43
706	A sub-1V, microwatt power-consumption iontronic pressure sensor based on organic electrochemical transistors. *IEEE Electron Device Letters*, **2021**, 42, 46-49	4.4	11
705	Fibrous Systems as Potential Solutions for Tendon and Ligament Repair, Healing, and Regeneration. *Advanced Healthcare Materials*, **2021**, 10, e2001305	10.1	10
704	Advanced Modeling to Study the Paradox of Mechanically Induced Cardiac Fibrosis. *Tissue Engineering - Part C: Methods*, **2021**, 27, 100-114	2.9	2
703	Whitlockite-Enabled Hydrogel for Craniofacial Bone Regeneration. *ACS Applied Materials & Interfaces*, **2021**, 13, 35342-35355	9.5	5
702	Stretchable and Bioadhesive Gelatin Methacryloyl-Based Hydrogels Enabled by Dopamine Polymerization. *ACS Applied Materials & Interfaces*, **2021**, 13, 40290-40301	9.5	12
701	Ultrathin-shell epitaxial Ag@Au core-shell nanowires for high-performance and chemically-stable electronic, optical, and mechanical devices. *Nano Research*, **2021**, 14, 4294	10	8
700	Multimaterial bioprinting and combination of processing techniques towards the fabrication of biomimetic tissues and organs. *Biofabrication*, **2021**, 13,	10.5	14
699	Harnessing the Wide-range Strain Sensitivity of Bilayered PEDOT:PSS Films for Wearable Health Monitoring. *Matter*, **2021**, 4, 2886-2901	12.7	13
698	Reconstructing the tumor architecture into organoids. *Advanced Drug Delivery Reviews*, **2021**, 176, 113838	18.5	1
697	Multifunctional Thermoresponsive Microcarriers for High-Throughput Cell Culture and Enzyme-Free Cell Harvesting. *Small*, **2021**, 17, e2103192	11	5
696	State of the art in integrated biosensors for organ-on-a-chip applications. *Current Opinion in Biomedical Engineering*, **2021**, 19, 100309	4.4	10

695	Healthy and diseased models of vascular systems. *Lab on A Chip*, **2021**, 21, 641-659	7.2	5
694	Recent developments in mussel-inspired materials for biomedical applications. *Biomaterials Science*, **2021**, 9, 6653-6672	7.4	8
693	Cancer-on-a-Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. *Small*, **2021**, 17, e2004282	11	12
692	Biodegradable Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Water-Insoluble Drug. *Advanced Healthcare Materials*, **2020**, 9, e2000527	10.1	35
691	Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAP-Mediated Mechanosensing. *Small*, **2020**, 16, e2001837	11	14
690	A Pulsatile Flow System to Engineer Aneurysm and Atherosclerosis Mimetic Extracellular Matrix. *Advanced Science*, **2020**, 7, 2000173	13.6	10
689	CRISPR-Cas12a delivery by DNA-mediated bioresponsive editing for cholesterol regulation. *Science Advances*, **2020**, 6, eaba2983	14.3	46
688	Extrusion and Microfluidic-based Bioprinting to Fabricate Biomimetic Tissues and Organs. *Advanced Materials Technologies*, **2020**, 5, 1901044	6.8	57
687	Gut-on-a-chip: Current progress and future opportunities. *Biomaterials*, **2020**, 255, 120196	15.6	54
686	3D Bioprinting of Oxygenated Cell-Laden Gelatin Methacryloyl Constructs. *Advanced Healthcare Materials*, **2020**, 9, e1901794	10.1	41
685	Microfluidic-Based Approaches in Targeted Cell/Particle Separation Based on Physical Properties: Fundamentals and Applications. *Small*, **2020**, 16, e2000171	11	52
684	Effect of cell imprinting on viability and drug susceptibility of breast cancer cells to doxorubicin. *Acta Biomaterialia*, **2020**, 113, 119-129	10.8	7
683	Multi-scale cellular engineering: From molecules to organ-on-a-chip. *APL Bioengineering*, **2020**, 4, 010906	6.6	7
682	Stimuli-Responsive Delivery of Growth Factors for Tissue Engineering. *Advanced Healthcare Materials*, **2020**, 9, e1901714	10.1	39
681	Angiogenesis: Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAP-Mediated Mechanosensing (Small 25/2020). *Small*, **2020**, 16, 2070142	11	
680	Type V Collagen in Scar Tissue Regulates the Size of Scar after Heart Injury. *Cell*, **2020**, 182, 545-562.e23	56.2	35
679	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	15.6	
678	Engineered Hydrogels for Brain Tumor Culture and Therapy. *Bio-Design and Manufacturing*, **2020**, 3, 203-226	4.7	8

677	Cells and Surfaces in Vitro **2020**, 661-681		2
676	Engineered biomaterials for in situ tissue regeneration. *Nature Reviews Materials*, **2020**, 5, 686-705	73.3	157
675	Hydrogel-Enabled Transfer Printing: Hydrogel-Enabled Transfer-Printing of Conducting Polymer Films for Soft Organic Bioelectronics (Adv. Funct. Mater. 6/2020). *Advanced Functional Materials*, **2020**, 30, 2070038	15.6	1
674	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. *Small*, **2020**, 16, e1905910	11	54
673	Overcoming the Interfacial Limitations Imposed by the Solid-Solid Interface in Solid-State Batteries Using Ionic Liquid-Based Interlayers. *Small*, **2020**, 16, e2000279	11	41
672	Synthetic Biology and Tissue Engineering: Toward Fabrication of Complex and Smart Cellular Constructs. *Advanced Functional Materials*, **2020**, 30, 1909882	15.6	10
671	Synthesis of Injectable Shear-Thinning Biomaterials of Various Compositions of Gelatin and Synthetic Silicate Nanoplatelet. *Biotechnology Journal*, **2020**, 15, e1900456	5.6	9
670	Polymer–Mesoporous Silica Nanoparticle Core–Shell Nanofibers as a Dual-Drug-Delivery System for Guided Tissue Regeneration. *ACS Applied Nano Materials*, **2020**, 3, 1457-1467	5.6	25
669	Engineering Biomaterials with Micro/Nanotechnologies for Cell Reprogramming. *ACS Nano*, **2020**, 14, 1296-1318	16.7	16
668	Incorporation of Graphene Quantum Dots, Iron, and Doxorubicin in/on Ferritin Nanocages for Bimodal Imaging and Drug Delivery. *Advanced Therapeutics*, **2020**, 3, 1900183	4.9	18
667	The bioprinting roadmap. *Biofabrication*, **2020**, 12, 022002	10.5	137
666	Microneedle drug eluting balloon for enhanced drug delivery to vascular tissue. *Journal of Controlled Release*, **2020**, 321, 174-183	11.7	18
665	Embryonic stem cells as a cell source for tissue engineering **2020**, 467-490		5
664	Ferrous sulfate-directed dual-cross-linked hyaluronic acid hydrogels with long-term delivery of donepezil. *International Journal of Pharmaceutics*, **2020**, 582, 119309	6.5	15
663	Using chaotic advection for facile high-throughput fabrication of ordered multilayer micro- and nanostructures: continuous chaotic printing. *Biofabrication*, **2020**, 12, 035023	10.5	24
662	Engineering Tough, Injectable, Naturally Derived, Bioadhesive Composite Hydrogels. *Advanced Healthcare Materials*, **2020**, 9, e1901722	10.1	37
661	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. *Advanced Functional Materials*, **2020**, 30, 2000086	15.6	38
660	Enhancement of label-free biosensing of cardiac troponin I. *Proceedings of SPIE*, **2020**, 11251,	1.7	5

659	Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cell-based cartilage tissue engineering. *Science Advances*, **2020**, 6, eaaz5913	14.3	18
658	Minimally Invasive Technologies for Biosensing **2020**, 193-223		
657	Vascular Tissue Engineering: The Role of 3D Bioprinting **2020**, 1-18		
656	Vascular Tissue Engineering: The Role of 3D Bioprinting **2020**, 321-338		5
655	Rhodamine Conjugated Gelatin Methacryloyl Nanoparticles for Stable Cell Imaging.. *ACS Applied Bio Materials*, **2020**, 3, 6908-6918	4.1	5
654	Electrospun Nanofibrous Membranes for Preventing Tendon Adhesion. *ACS Biomaterials Science and Engineering*, **2020**, 6, 4356-4376	5.5	10
653	Toward a neurospheroid niche model: optimizing embedded 3D bioprinting for fabrication of neurospheroid brain-like co-culture constructs. *Biofabrication*, **2020**,	10.5	16
652	Microphysiological Systems: Next Generation Systems for Assessing Toxicity and Therapeutic Effects of Nanomaterials. *Small Methods*, **2020**, 4, 1900589	12.8	25
651	Customizable Composite Fibers for Engineering Skeletal Muscle Models. *ACS Biomaterials Science and Engineering*, **2020**, 6, 1112-1123	5.5	18
650	Room-Temperature-Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics. *Advanced Materials*, **2020**, 32, e1904752	24	97
649	Hydrogels: Room-Temperature-Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics (Adv. Mater. 1/2020). *Advanced Materials*, **2020**, 32, 2070005	24	3
648	3D-Printed Ultra-Robust Surface-Doped Porous Silicone Sensors for Wearable Biomonitoring. *ACS Nano*, **2020**, 14, 1520-1532	16.7	76
647	Non-transdermal microneedles for advanced drug delivery. *Advanced Drug Delivery Reviews*, **2020**, 165-166, 41-59	18.5	46
646	Hydrogel-Enabled Transfer-Printing of Conducting Polymer Films for Soft Organic Bioelectronics. *Advanced Functional Materials*, **2020**, 30, 1906016	15.6	32
645	Sacrificial 3D printing of shrinkable silicone elastomers for enhanced feature resolution in flexible tissue scaffolds. *Acta Biomaterialia*, **2020**, 117, 261-272	10.8	14
644	Engineering Antiviral Vaccines. *ACS Nano*, **2020**, 14, 12370-12389	16.7	23
643	Microengineered poly(HEMA) hydrogels for wearable contact lens biosensing. *Lab on A Chip*, **2020**, 20, 4205-4214	7.2	11
642	Micro and nanoscale technologies in oral drug delivery. *Advanced Drug Delivery Reviews*, **2020**, 157, 37-62	18.5	45

641	Wearable Tactile Sensors: Gelatin Methacryloyl-Based Tactile Sensors for Medical Wearables (Adv. Funct. Mater. 49/2020). *Advanced Functional Materials*, **2020**, 30, 2070326	15.6	4
640	Preparation of Poly(ether-ether-ketone)/Nanohydroxyapatite Composites with Improved Mechanical Performance and Biointerfacial Affinity. *ACS Omega*, **2020**, 5, 29398-29406	3.9	4
639	Biodegradable microneedle patch for transdermal gene delivery. *Nanoscale*, **2020**, 12, 16724-16729	7.7	18
638	Crosslinking Strategies for 3D Bioprinting of Polymeric Hydrogels. *Small*, **2020**, 16, e2002931	11	67
637	Cholesteryl Ester Liquid Crystal Nanofibers for Tissue Engineering Applications **2020**, 2, 1067-1073		16
636	In situ forming microporous gelatin methacryloyl hydrogel scaffolds from thermostable microgels for tissue engineering. *Bioengineering and Translational Medicine*, **2020**, 5, e10180	14.8	12
635	Thrombolytic Agents: Nanocarriers in Controlled Release. *Small*, **2020**, 16, e2001647	11	12
634	Screening Cancer Immunotherapy: When Engineering Approaches Meet Artificial Intelligence. *Advanced Science*, **2020**, 7, 2001447	13.6	9
633	3D Bioprinting: Crosslinking Strategies for 3D Bioprinting of Polymeric Hydrogels (Small 35/2020). *Small*, **2020**, 16, 2070195	11	1
632	An Alkaline Based Method for Generating Crystalline, Strong, and Shape Memory Polyvinyl Alcohol Biomaterials. *Advanced Science*, **2020**, 7, 1902740	13.6	22
631	Combined Effects of Electric Stimulation and Microgrooves in Cardiac Tissue-on-a-Chip for Drug Screening. *Small Methods*, **2020**, 4, 2000438	12.8	3
630	Gelatin methacryloyl-based tactile sensors for medical wearables. *Advanced Functional Materials*, **2020**, 30, 2003601	15.6	41
629	Recent advances in 3D bioprinting of musculoskeletal tissues. *Biofabrication*, **2020**,	10.5	17
628	Advances in Controlled Oxygen Generating Biomaterials for Tissue Engineering and Regenerative Therapy. *Biomacromolecules*, **2020**, 21, 56-72	6.9	31
627	Key components of engineering vascularized 3-dimensional bioprinted bone constructs. *Translational Research*, **2020**, 216, 57-76	11	47
626	Microneedle Patches: Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid (Small 16/2020). *Small*, **2020**, 16, 2070086	11	1
625	Mesoporous silica rods with cone shaped pores modulate inflammation and deliver BMP-2 for bone regeneration. *Nano Research*, **2020**, 13, 2323-2331	10	21
624	Biofabrication of endothelial cell, dermal fibroblast, and multilayered keratinocyte layers for skin tissue engineering. *Biofabrication*, **2020**,	10.5	16

623	Nanocomposite Hydrogel with Tantalum Microparticles for Rapid Endovascular Hemostasis. *Advanced Science*, **2020**, 8, 2003327	13.6	6
622	Models of the Gut for Analyzing the Impact of Food and Drugs. *Advanced Healthcare Materials*, **2019**, 8, e1900968	10.1	20
621	Functional Nanomaterials on 2D Surfaces and in 3D Nanocomposite Hydrogels for Biomedical Applications. *Advanced Functional Materials*, **2019**, 29, 1904344	15.6	39
620	Regenerative Therapies for Spinal Cord Injury. *Tissue Engineering - Part B: Reviews*, **2019**, 25, 471-491	7.9	40
619	Stimuli-responsive hydrogels for manipulation of cell microenvironment: From chemistry to biofabrication technology. *Progress in Polymer Science*, **2019**, 98, 101147	29.6	80
618	Multi Use Microfluidic Biosensors for Continual Monitoring of Biomarkers from Microphysiological Systems **2019**,		2
617	A Foreign Body Response-on-a-Chip Platform. *Advanced Healthcare Materials*, **2019**, 8, e1801425	10.1	29
616	Evaluation of an elastic decellularized tendon-derived scaffold for the vascular tissue engineering application. *Journal of Biomedical Materials Research - Part A*, **2019**, 107, 1225-1234	5.4	13
615	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth Möwald. *ACS Nano*, **2019**, 13, 6151-6169	16.7	127
614	A Human Liver-on-a-Chip Platform for Modeling Nonalcoholic Fatty Liver Disease. *Advanced Biology*, **2019**, 3, e1900104	3.5	34
613	Nanoscience and Nanotechnology at UCLA. *ACS Nano*, **2019**, 13, 6127-6129	16.7	1
612	Bioprinters for organs-on-chips. *Biofabrication*, **2019**, 11, 042002	10.5	50
611	Electrically conductive nanomaterials for cardiac tissue engineering. *Advanced Drug Delivery Reviews*, **2019**, 144, 162-179	18.5	81
610	Physics of bioprinting. *Applied Physics Reviews*, **2019**, 6, 021315	17.3	17
609	Advances in Biomaterials and Technologies for Vascular Embolization. *Advanced Materials*, **2019**, 31, e1901071	24	59
608	Flexible and Stretchable PEDOT-Embedded Hybrid Substrates for Bioengineering and Sensory Applications. *ChemNanoMat*, **2019**, 5, 729-737	3.5	8
607	Effective bioprinting resolution in tissue model fabrication. *Lab on A Chip*, **2019**, 19, 2019-2037	7.2	90
606	3D Bioprinting in Skeletal Muscle Tissue Engineering. *Small*, **2019**, 15, e1805530	11	113

605	Biocompatible Carbon Nanotube-Based Hybrid Microfiber for Implantable Electrochemical Actuator and Flexible Electronic Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 20615-20627	8.5	22
604	Engineering Hydrogels beyond a Hydrated Network. *Advanced Healthcare Materials*, **2019**, 8, e1900038	10.1	3
603	Mechanical and Biochemical Stimulation of 3D Multilayered Scaffolds for Tendon Tissue Engineering. *ACS Biomaterials Science and Engineering*, **2019**, 5, 2953-2964	5.5	41
602	Anti-fibrotic Effects of Cardiac Progenitor Cells in a 3D-Model of Human Cardiac Fibrosis. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 52	5.4	17
601	Anti-IL-6 eluting immunomodulatory biomaterials prolong skin allograft survival. *Scientific Reports*, **2019**, 9, 6535	4.9	24
600	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. *ACS Nano*, **2019**, 13, 3830-3838	16.7	52
599	A Microfabricated Sandwiching Assay for Nanoliter and High-Throughput Biomarker Screening. *Small*, **2019**, 15, e1900300	11	6
598	Sutureless repair of corneal injuries using naturally derived bioadhesive hydrogels. *Science Advances*, **2019**, 5, eaav1281	14.3	122
597	Silk fibroin scaffolds for common cartilage injuries: Possibilities for future clinical applications. *European Polymer Journal*, **2019**, 115, 251-267	5.2	48
596	Breathable hydrogel dressings containing natural antioxidants for management of skin disorders. *Journal of Biomaterials Applications*, **2019**, 33, 1265-1276	2.9	23
595	Aligned Cell-Laden Yarns: Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns (Adv. Healthcare Mater. 7/2019). *Advanced Healthcare Materials*, **2019**, 8, 1970025	10.1	0
594	Bone Bioprinting: Advancing Frontiers in Bone Bioprinting (Adv. Healthcare Mater. 7/2019). *Advanced Healthcare Materials*, **2019**, 8, 1970030	10.1	2
593	High-Throughput Drug Screening: A Microfabricated Sandwiching Assay for Nanoliter and High-Throughput Biomarker Screening (Small 15/2019). *Small*, **2019**, 15, 1970078	11	1
592	In situ three-dimensional printing for reparative and regenerative therapy. *Biomedical Microdevices*, **2019**, 21, 42	3.7	41
591	A simple layer-stacking technique to generate biomolecular and mechanical gradients in photocrosslinkable hydrogels. *Biofabrication*, **2019**, 11, 025014	10.5	12
590	Advancing Frontiers in Bone Bioprinting. *Advanced Healthcare Materials*, **2019**, 8, e1801048	10.1	113
589	Tendon Tissue Engineering: Effects of Mechanical and Biochemical Stimulation on Stem Cell Alignment on Cell-Laden Hydrogel Yarns. *Advanced Healthcare Materials*, **2019**, 8, e1801218	10.1	56
588	Chasing the Paradigm: Clinical Translation of 25 Years of Tissue Engineering. *Tissue Engineering - Part A*, **2019**, 25, 679-687	3.9	58

587	Multiscale bioprinting of vascularized models. *Biomaterials*, **2019**, 198, 204-216	15.6	118
586	Applications of Nanotechnology for Regenerative Medicine; Healing Tissues at the Nanoscale **2019**, 485-504		11
585	Bioreactors for Cardiac Tissue Engineering. *Advanced Healthcare Materials*, **2019**, 8, e1701504	10.1	37
584	Targeted cell delivery for articular cartilage regeneration and osteoarthritis treatment. *Drug Discovery Today*, **2019**, 24, 2212-2224	8.8	23
583	Modular Fabrication of Intelligent Material-Tissue Interfaces for Bioinspired and Biomimetic Devices. *Progress in Materials Science*, **2019**, 106,	42.2	48
582	The emergence of 3D bioprinting in organ-on-chip systems. *Progress in Biomedical Engineering*, **2019**, 1, 012001	7.2	47
581	Charge-switchable polymeric complex for glucose-responsive insulin delivery in mice and pigs. *Science Advances*, **2019**, 5, eaaw4357	14.3	62
580	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	4.3	2
579	Modular microporous hydrogels formed from microgel beads with orthogonal thermo-chemical responsivity: Microfluidic fabrication and characterization. *MethodsX*, **2019**, 6, 1747-1752	1.9	14
578	3D printing of step-gradient nanocomposite hydrogels for controlled cell migration. *Biofabrication*, **2019**, 11, 045015	10.5	16
577	Nanoparticle-Based Hybrid Scaffolds for Deciphering the Role of Multimodal Cues in Cardiac Tissue Engineering. *ACS Nano*, **2019**, 13, 12525-12539	16.7	44
576	Cancer Modeling-on-a-Chip with Future Artificial Intelligence Integration. *Small*, **2019**, 15, e1901985	11	36
575	In Vitro Human Liver Model of Nonalcoholic Steatohepatitis by Coculturing Hepatocytes, Endothelial Cells, and Kupffer Cells. *Advanced Healthcare Materials*, **2019**, 8, e1901379	10.1	24
574	A 3D-printed microfluidic-enabled hollow microneedle architecture for transdermal drug delivery. *Biomicrofluidics*, **2019**, 13, 064125	3.2	63
573	Microfluidic systems for controlling stem cell microenvironments **2019**, 31-63		6
572	Hall of Fame Article: Minimally Invasive and Regenerative Therapeutics (Adv. Mater. 1/2019). *Advanced Materials*, **2019**, 31, 1970005	24	1
571	Biodegradable Gelatin Methacryloyl Microneedles for Transdermal Drug Delivery. *Advanced Healthcare Materials*, **2019**, 8, e1801054	10.1	105
570	Organ-on-a-Chip for Cancer and Immune Organs Modeling. *Advanced Healthcare Materials*, **2019**, 8, e1801363	10.1	71

569	Microfluidic-enabled bottom-up hydrogels from annealable naturally-derived protein microbeads. *Biomaterials*, **2019**, 192, 560-568	15.6	61
568	Recent advances in nanoengineering cellulose for cargo delivery. *Journal of Controlled Release*, **2019**, 294, 53-76	11.7	59
567	Fracture-Resistant and Bioresorbable Drug-Eluting Poly(glycerol Sebacate) Coils. *Advanced Therapeutics*, **2019**, 2, 1800109	4.9	4
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