List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs. Advanced Functional Materials, 2017, 27, 1605352.	14.9	278
2	Trophic Effects of Mesenchymal Stem Cells Increase Chondrocyte Proliferation and Matrix Formation. Tissue Engineering - Part A, 2011, 17, 1425-1436.	3.1	259
3	Trophic Effects of Mesenchymal Stem Cells in Tissue Regeneration. Tissue Engineering - Part B: Reviews, 2017, 23, 515-528.	4.8	196
4	Integrinâ€Mediated Interactions Control Macrophage Polarization in 3D Hydrogels. Advanced Healthcare Materials, 2017, 6, 1700289.	7.6	169
5	Spatially and temporally controlled hydrogels for tissue engineering. Materials Science and Engineering Reports, 2017, 119, 1-35.	31.8	151
6	Gene expression profiling of dedifferentiated human articular chondrocytes inÂmonolayer culture. Osteoarthritis and Cartilage, 2013, 21, 599-603.	1.3	147
7	Structural analysis of photocrosslinkable methacryloyl-modified protein derivatives. Biomaterials, 2017, 139, 163-171.	11.4	140
8	Cardiovascular Organ-on-a-Chip Platforms for Drug Discovery and Development. Applied in Vitro Toxicology, 2016, 2, 82-96.	1.1	124
9	Gremlin 1, Frizzledâ€related protein, and Dkkâ€1 are key regulators of human articular cartilage homeostasis. Arthritis and Rheumatism, 2012, 64, 3302-3312.	6.7	119
10	Metabolic programming of mesenchymal stromal cells by oxygen tension directs chondrogenic cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13954-13959.	7.1	104
11	Optimizing cell viability in droplet-based cell deposition. Scientific Reports, 2015, 5, 11304.	3.3	87
12	High throughput generated micro-aggregates of chondrocytes stimulate cartilage formation in vitro and in vivo. , 2012, 23, 387-399.		85
13	Single Cell Microgel Based Modular Bioinks for Uncoupled Cellular Micro―and Macroenvironments. Advanced Healthcare Materials, 2017, 6, 1600913.	7.6	84
14	Ocular adhesives: Design, chemistry, crosslinking mechanisms, and applications. Biomaterials, 2019, 197, 345-367.	11.4	84
15	Platelet-Rich Blood Derivatives for Stem Cell-Based Tissue Engineering and Regeneration. Current Stem Cell Reports, 2016, 2, 33-42.	1.6	82
16	Oxygen-Generating Photo-Cross-Linkable Hydrogels Support Cardiac Progenitor Cell Survival by Reducing Hypoxia-Induced Necrosis. ACS Biomaterials Science and Engineering, 2017, 3, 1964-1971.	5.2	82
17	The effect of platelet lysate supplementation of a dextran-based hydrogel on cartilage formation. Biomaterials, 2012, 33, 3651-3661.	11.4	76
18	Biomechanical Strain Exacerbates Inflammation on a Progeriaâ€onâ€aâ€Chip Model. Small, 2017, 13, 1603737.	10.0	75

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19	GREM1, FRZB and DKK1 mRNA levels correlate with osteoarthritis and are regulated by osteoarthritis-associated factors. Arthritis Research and Therapy, 2013, 15, R126.	3.5	74
20	Nanostructured Fibrous Membranes with Rose Spike-Like Architecture. Nano Letters, 2017, 17, 6235-6240.	9.1	72
21	3D Printed Cartilageâ€Like Tissue Constructs with Spatially Controlled Mechanical Properties. Advanced Functional Materials, 2019, 29, 1906330.	14.9	66
22	Cell Sources for Articular Cartilage Repair Strategies: Shifting from Monocultures to Cocultures. Tissue Engineering - Part B: Reviews, 2013, 19, 31-40.	4.8	65
23	Fibroblast Growth Factor-1 Is a Mesenchymal Stromal Cell-Secreted Factor Stimulating Proliferation of Osteoarthritic Chondrocytes in Co-Culture. Stem Cells and Development, 2013, 22, 2356-2367.	2.1	64
24	Single-Cell Microgels: Technology, Challenges, and Applications. Trends in Biotechnology, 2018, 36, 850-865.	9.3	64
25	Advancing Tissue Engineering: A Tale of Nanoâ€, Microâ€, and Macroscale Integration. Small, 2016, 12, 2130-2145.	10.0	62
26	Ultrahigh-Throughput Production of Monodisperse and Multifunctional Janus Microparticles Using in-Air Microfluidics. ACS Applied Materials & amp; Interfaces, 2018, 10, 23433-23438.	8.0	56
27	High-throughput approaches for screening and analysis of cell behaviors. Biomaterials, 2018, 153, 85-101.	11.4	52
28	Centering Single Cells in Microgels via Delayed Crosslinking Supports Long-Term 3D Culture by Preventing Cell Escape. Small, 2017, 13, 1603711.	10.0	49
29	Concise Review: Organ Engineering: Design, Technology, and Integration. Stem Cells, 2017, 35, 51-60.	3.2	48
30	Rapid and cytocompatible cell-laden silk hydrogel formation <i>via</i> riboflavin-mediated crosslinking. Journal of Materials Chemistry B, 2020, 8, 9566-9575.	5.8	47
31	Cell based advanced therapeutic medicinal products for bone repair: Keep it simple?. Advanced Drug Delivery Reviews, 2015, 84, 30-44.	13.7	45
32	Healing of a Large Long-Bone Defect through Serum-Free InÂVitro Priming ofÂHuman Periosteum-Derived Cells. Stem Cell Reports, 2017, 8, 758-772.	4.8	44
33	Oxygen-Releasing Biomaterials: Current Challenges and Future Applications. Trends in Biotechnology, 2021, 39, 1144-1159.	9.3	44
34	Cartilage Tissue Engineering. Endocrine Development, 2011, 21, 102-115.	1.3	43
35	From Nano to Macro: Multiscale Materials for Improved Stem Cell Culturing and Analysis. Cell Stem Cell, 2016, 18, 20-24.	11.1	43
36	Bioinspired seeding of biomaterials using three dimensional microtissues induces chondrogenic stem cell differentiation and cartilage formation under growth factor free conditions. Scientific Reports, 2016, 6, 36011.	3.3	40

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37	The matrix reloaded: the evolution of regenerative hydrogels. Materials Today, 2016, 19, 190-196.	14.2	39
38	Recognizing different tissues in human fetal femur cartilage by label-free Raman microspectroscopy. Journal of Biomedical Optics, 2012, 17, 116012.	2.6	38
39	Immune Organs and Immune Cells on a Chip: An Overview of Biomedical Applications. Micromachines, 2020, 11, 849.	2.9	37
40	Hypoxia Inhibits Hypertrophic Differentiation and Endochondral Ossification in Explanted Tibiae. PLoS ONE, 2012, 7, e49896.	2.5	36
41	Interconnectable Dynamic Compression Bioreactors for Combinatorial Screening of Cell Mechanobiology in Three Dimensions. ACS Applied Materials & Interfaces, 2018, 10, 13293-13303.	8.0	36
42	Bioionic Liquid Conjugation as Universal Approach To Engineer Hemostatic Bioadhesives. ACS Applied Materials & Interfaces, 2019, 11, 38373-38384.	8.0	36
43	<i>In vivo</i> screening of extracellular matrix components produced under multiple experimental conditions implanted in one animal. Integrative Biology (United Kingdom), 2013, 5, 889-898.	1.3	31
44	Engineering 3D parallelized microfluidic droplet generators with equal flow profiles by computational fluid dynamics and stereolithographic printing. Lab on A Chip, 2020, 20, 490-495.	6.0	31
45	A Dual Flow Bioreactor with Controlled Mechanical Stimulation for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2013, 19, 774-783.	2.1	29
46	Nitric Oxide Mediates Crosstalk between Interleukin 1β and WNT Signaling in Primary Human Chondrocytes by Reducing DKK1 and FRZB Expression. International Journal of Molecular Sciences, 2017, 18, 2491.	4.1	28
47	Mimicking the Articular Joint with In Vitro Models. Trends in Biotechnology, 2019, 37, 1063-1077.	9.3	27
48	Monolithic microfluidic platform for exerting gradients of compression on cell-laden hydrogels, and application to a model of the articular cartilage. Sensors and Actuators B: Chemical, 2020, 315, 127917.	7.8	27
49	Enzymatic Crosslinking of Polymer Conjugates is Superior over Ionic or UV Crosslinking for the Onâ€Chip Production of Cell‣aden Microgels. Macromolecular Bioscience, 2016, 16, 1524-1532.	4.1	25
50	Chondrocytes Cocultured with Stromal Vascular Fraction of Adipose Tissue Present More Intense Chondrogenic Characteristics Than with Adipose Stem Cells. Tissue Engineering - Part A, 2016, 22, 336-348.	3.1	24
51	Nanoemulsion-induced enzymatic crosslinking of tyramine-functionalized polymer droplets. Journal of Materials Chemistry B, 2017, 5, 4835-4844.	5.8	23
52	Spatiotemporal material functionalization via competitive supramolecular complexation of avidin and biotin analogs. Nature Communications, 2019, 10, 4347.	12.8	21
53	Embedded 3D Printing in Selfâ€Healing Annealable Composites for Precise Patterning of Functionally Mature Human Neural Constructs. Advanced Science, 2022, 9,	11.2	21
54	A Qualitative Model of the Differentiation Network in Chondrocyte Maturation: A Holistic View of Chondrocyte Hypertrophy. PLoS ONE, 2016, 11, e0162052.	2.5	19

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55	Nanomaterials for the Local and Targeted Delivery of Osteoarthritis Drugs. Journal of Nanomaterials, 2012, 2012, 1-13.	2.7	18
56	Fetal Mesenchymal Stromal Cells Differentiating towards Chondrocytes Acquire a Gene Expression Profile Resembling Human Growth Plate Cartilage. PLoS ONE, 2012, 7, e44561.	2.5	17
57	Boosting Angiogenesis and Functional Vascularization in Injectable Dextran–Hyaluronic Acid Hydrogels by Endothelial-Like Mesenchymal Stromal Cells. Tissue Engineering - Part A, 2013, 20, 131112094536009.	3.1	16
58	Selfâ€Oxygenation of Tissues Orchestrates Fullâ€Thickness Vascularization of Living Implants. Advanced Functional Materials, 2021, 31, 2100850.	14.9	16
59	Dickkopf-related protein 1 and gremlin 1 show different response than frizzled-related protein in human synovial fluid following knee injury and in patients with osteoarthritis. Osteoarthritis and Cartilage, 2018, 26, 834-843.	1.3	15
60	Microwell Scaffolds Using Collagen-IV and Laminin-111 Lead to Improved Insulin Secretion of Human Islets. Tissue Engineering - Part C: Methods, 2019, 25, 71-81.	2.1	14
61	Enzymatic outside-in cross-linking enables single-step microcapsule production for high-throughput three-dimensional cell microaggregate formation. Materials Today Bio, 2020, 6, 100047.	5.5	14
62	Fibronectin and Collagen IV Microcontact Printing Improves Insulin Secretion by INS1E Cells. Tissue Engineering - Part C: Methods, 2018, 24, 628-636.	2.1	12
63	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Nonâ€Cellâ€Adhesive Materials. Advanced Materials, 2021, 33, e2102660.	21.0	10
64	On-the-fly exchangeable microfluidic nozzles for facile production of various monodisperse micromaterials. Lab on A Chip, 2019, 19, 1977-1984.	6.0	9
65	In vitro degradation profiles and in vivo biomaterial–tissue interactions of microwell array delivery devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 117-127.	3.4	7
66	Crosslink bio-adhesives for bronchoscopic lung volume reduction: current status and future direction. European Respiratory Review, 2021, 30, 210142.	7.1	7
67	Scalable fabrication, compartmentalization and applications of living microtissues. Bioactive Materials, 2023, 19, 392-405.	15.6	4
68	Tissue Engineering: Gold Nanocomposite Bioink for Printing 3D Cardiac Constructs (Adv. Funct.) Tj ETQq0 0 0 rg	BT_/Oyerlo	ock <sub>3</sub> 10 Tf 50 2
69	3D Printed Tissues: 3D Printed Cartilageâ€Like Tissue Constructs with Spatially Controlled Mechanical Properties (Adv. Funct. Mater. 51/2019). Advanced Functional Materials, 2019, 29, 1970350.	14.9	3
70	Enzymeâ€Mediated Alleviation of Peroxide Toxicity in Selfâ€Oxygenating Biomaterials. Advanced Healthcare Materials, 2022, 11, e2102697.	7.6	3
71	Organâ€Onâ€Aâ€Chip: Biomechanical Strain Exacerbates Inflammation on a Progeriaâ€onâ€aâ€Chip Model (Sm	all) Ti ETQ 10:0	q1 <sub>1</sub> 1 0.78431

Prolonged intra-articular retention of mesenchymal stem cells by advanced microencapsulation.
Osteoarthritis and Cartilage, 2019, 27, S434.

#	Article	IF	CITATIONS
73	Injectable hydrogels functionalized with antibody fragments as intra-articular cytokine sinks neutralizing pro-catabolic cytokines. Osteoarthritis and Cartilage, 2021, 29, S50.	1.3	0
74	Tethering Cells via Enzymatic Oxidative Crosslinking Enables Mechanotransduction in Non ellâ€Adhesive Materials (Adv. Mater. 42/2021). Advanced Materials, 2021, 33, 2170333.	21.0	0
75	OSMOLARITY-INDUCED ALTERED INTRACELLULAR MOLECULAR CROWDING DRIVES OSTEOARTHRITIS PATHOLOGY. Osteoarthritis and Cartilage, 2022, 30, S24-S25.	1.3	О