

Marcy Zenobi-Wong

List of Publications by Citations

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

118
papers

5,450
citations

40
h-index

71
g-index

125
ext. papers

6,456
ext. citations

8.5
avg, IF

6.02
L-index

#	Paper	IF	Citations
118	Articular cartilage functional histomorphology and mechanobiology: a research perspective. <i>Bone</i> , 2003 , 33, 1-13	4.7	264
117	Alginate Sulfate-Nanocellulose Bioinks for Cartilage Bioprinting Applications. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 210-223	4.7	231
116	Stimulation of aggrecan synthesis in cartilage explants by cyclic loading is localized to regions of high interstitial fluid flow. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 366, 1-7	4.1	218
115	Nanostructured Pluronic hydrogels as bioinks for 3D bioprinting. <i>Biofabrication</i> , 2015 , 7, 035006	10.5	217
114	A versatile bioink for three-dimensional printing of cellular scaffolds based on thermally and photo-triggered tandem gelation. <i>Acta Biomaterialia</i> , 2015 , 11, 162-72	10.8	197
113	Bovine primary chondrocyte culture in synthetic matrix metalloproteinase-sensitive poly(ethylene glycol)-based hydrogels as a scaffold for cartilage repair. <i>Tissue Engineering</i> , 2004 , 10, 515-22		176
112	Amyloid-hydroxyapatite bone biomimetic composites. <i>Advanced Materials</i> , 2014 , 26, 3207-12	24	159
111	Artificial bacterial flagella for remote-controlled targeted single-cell drug delivery. <i>Small</i> , 2014 , 10, 1953-7		150
110	Bioprinting Complex Cartilaginous Structures with Clinically Compliant Biomaterials. <i>Advanced Functional Materials</i> , 2015 , 25, 7406-7417	15.6	139
109	Chondrocyte biosynthesis correlates with local tissue strain in statically compressed adult articular cartilage. <i>Journal of Orthopaedic Research</i> , 1997 , 15, 189-96	3.8	137
108	Molecular and biophysical mechanisms regulating hypertrophic differentiation in chondrocytes and mesenchymal stem cells. <i>European Cells and Materials</i> , 2012 , 24, 118-35; discussion 135	4.3	137
107	Engineering the extracellular environment: Strategies for building 2D and 3D cellular structures. <i>Advanced Materials</i> , 2010 , 22, 5443-62	24	133
106	Cyclic compression of articular cartilage explants is associated with progressive consolidation and altered expression pattern of extracellular matrix proteins. <i>Matrix Biology</i> , 1999 , 18, 391-9	11.4	131
105	Importance of the superficial tissue layer for the indentation stiffness of articular cartilage. <i>Medical Engineering and Physics</i> , 2002 , 24, 99-108	2.4	125
104	Volumetric changes of articular cartilage during stress relaxation in unconfined compression. <i>Journal of Biomechanics</i> , 2000 , 33, 1049-54	2.9	122
103	Modelling cartilage mechanobiology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003 , 358, 1461-71	5.8	121
102	Growth of Epithelial Organoids in a Defined Hydrogel. <i>Advanced Materials</i> , 2018 , 30, e1801621	24	114

101	Zone-specific cell biosynthetic activity in mature bovine articular cartilage: a new method using confocal microscopic stereology and quantitative autoradiography. <i>Journal of Orthopaedic Research</i> , 1996 , 14, 424-32	3.8	108
100	Surface and subsurface morphology of bovine humeral articular cartilage as assessed by atomic force and transmission electron microscopy. <i>Journal of Structural Biology</i> , 1996 , 117, 45-54	3.4	93
99	Biphasic poroviscoelastic simulation of the unconfined compression of articular cartilage: I--Simultaneous prediction of reaction force and lateral displacement. <i>Journal of Biomechanical Engineering</i> , 2001 , 123, 191-7	2.1	91
98	Novel enzymatically cross-linked hyaluronan hydrogels support the formation of 3D neuronal networks. <i>Biomaterials</i> , 2016 , 99, 47-55	15.6	78
97	Chemical Design of Non-Ionic Polymer Brushes as Biointerfaces: Poly(2-oxazine)s Outperform Both Poly(2-oxazoline)s and PEG. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11667-11672	16.4	75
96	Next-Generation Polymer Shells for Inorganic Nanoparticles are Highly Compact, Ultra-Dense, and Long-Lasting Cyclic Brushes. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4507-4511	16.4	70
95	Development of mechanically stable alginate/chondrocyte constructs: effects of guluronic acid content and matrix synthesis. <i>Journal of Orthopaedic Research</i> , 2001 , 19, 493-9	3.8	67
94	Chondrocyte culture in three dimensional alginate sulfate hydrogels promotes proliferation while maintaining expression of chondrogenic markers. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1454-64	3.9	66
93	Three-Dimensional Bioprinting and Its Potential in the Field of Articular Cartilage Regeneration. <i>Cartilage</i> , 2017 , 8, 327-340	3	64
92	Electrochemical plasmonic sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1773-84	4.4	61
91	Topology Effects on the Structural and Physicochemical Properties of Polymer Brushes. <i>Macromolecules</i> , 2017 , 50, 7760-7769	5.5	58
90	Cyclic Polymer Grafts That Lubricate and Protect Damaged Cartilage. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1621-1626	16.4	58
89	Cartilage tissue formation through assembly of microgels containing mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2018 , 77, 48-62	10.8	57
88	Guiding Lights: Tissue Bioprinting Using Photoactivated Materials. <i>Chemical Reviews</i> , 2020 , 120, 10950-11027	16.7	55
87	Layer-by-layer films made from extracellular matrix macromolecules on silicone substrates. <i>Biomacromolecules</i> , 2011 , 12, 609-16	6.9	52
86	Nanoassemblies of Tissue-Reactive, Polyoxazoline Graft-Copolymers Restore the Lubrication Properties of Degraded Cartilage. <i>ACS Nano</i> , 2017 , 11, 2794-2804	16.7	48
85	Sulfated hydrogel matrices direct mitogenicity and maintenance of chondrocyte phenotype through activation of FGF signaling. <i>Advanced Functional Materials</i> , 2016 , 26, 3649-3662	15.6	45
84	Precise tailoring of tyramine-based hyaluronan hydrogel properties using DMTMM conjugation. <i>Carbohydrate Polymers</i> , 2015 , 115, 325-33	10.3	42

83	Electrochemically switchable platform for the micro-patterning and release of heterotypic cell sheets. <i>Biomedical Microdevices</i> , 2011 , 13, 221-30	3.7	42
82	Factor XIII Cross-Linked Hyaluronan Hydrogels for Cartilage Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 2176-2184	5.5	41
81	3D Bioprinting of Macroporous Materials Based on Entangled Hydrogel Microstrands. <i>Advanced Science</i> , 2020 , 7, 2001419	13.6	41
80	A Bioinspired Ultraporous Nanofiber-Hydrogel Mimic of the Cartilage Extracellular Matrix. <i>Advanced Healthcare Materials</i> , 2016 , 5, 3129-3138	10.1	40
79	Pre-Osteoarthritis: Definition and Diagnosis of an Elusive Clinical Entity. <i>Cartilage</i> , 2015 , 6, 156-65	3	40
78	Exploitation of Cationic Silica Nanoparticles for Bioprinting of Large-Scale Constructs with High Printing Fidelity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37820-37828	9.5	37
77	Microfabrication of Photo-Cross-Linked Hyaluronan Hydrogels by Single- and Two-Photon Tyramine Oxidation. <i>Biomacromolecules</i> , 2015 , 16, 2624-30	6.9	36
76	Ultrasoft Alginate Hydrogels Support Long-Term Three-Dimensional Functional Neuronal Networks. <i>Tissue Engineering - Part A</i> , 2015 , 21, 2177-85	3.9	36
75	GFOGER-modified MMP-sensitive polyethylene glycol hydrogels induce chondrogenic differentiation of human mesenchymal stem cells. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1165-74	3.9	36
74	Disentangling the multifactorial contributions of fibronectin, collagen and cyclic strain on MMP expression and extracellular matrix remodeling by fibroblasts. <i>Matrix Biology</i> , 2014 , 40, 62-72	11.4	36
73	Ribosomal protein l13a as a reference gene for human bone marrow-derived mesenchymal stromal cells during expansion, adipo-, chondro-, and osteogenesis. <i>Tissue Engineering - Part C: Methods</i> , 2012 , 18, 761-71	2.9	36
72	Oxygen Tolerant and Cytocompatible Iron(0)-Mediated ATRP Enables the Controlled Growth of Polymer Brushes from Mammalian Cell Cultures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3158-3164	16.4	34
71	Sortase A as a cross-linking enzyme in tissue engineering. <i>Acta Biomaterialia</i> , 2018 , 77, 182-190	10.8	34
70	Synthesis of Biocompatible PEG Hydrogels by pH-Sensitive Potassium Acyltrifluoroborate (KAT) Amide Ligations. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 456-462	5.5	34
69	Cross-Linking Chemistry of Tyramine-Modified Hyaluronan Hydrogels Alters Mesenchymal Stem Cell Early Attachment and Behavior. <i>Biomacromolecules</i> , 2017 , 18, 855-864	6.9	32
68	Morphogenesis Guided by 3D Patterning of Growth Factors in Biological Matrices. <i>Advanced Materials</i> , 2020 , 32, e1908299	24	31
67	Double-Network Hydrogels Including Enzymatically Crosslinked Poly-(2-alkyl-2-oxazoline)s for 3D Bioprinting of Cartilage-Engineering Constructs. <i>Biomacromolecules</i> , 2019 , 20, 4502-4511	6.9	31
66	Interference with the contractile machinery of the fibroblastic chondrocyte cytoskeleton induces re-expression of the cartilage phenotype through involvement of PI3K, PKC and MAPKs. <i>Experimental Cell Research</i> , 2014 , 320, 175-87	4.2	31

65	Hybrid Randomly Electrospun Poly(lactic-co-glycolic acid):Poly(ethylene oxide) (PLGA:PEO) Fibrous Scaffolds Enhancing Myoblast Differentiation and Alignment. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31574-31586	9.5	29
64	Printing thermoresponsive reverse molds for the creation of patterned two-component hydrogels for 3D cell culture. <i>Journal of Visualized Experiments</i> , 2013 , e50632	1.6	29
63	Collagen fibrillogenesis by chondrocytes in alginate. <i>Tissue Engineering</i> , 2002 , 8, 979-87		29
62	Surface Density Variation within Cyclic Polymer Brushes Reveals Topology Effects on Their Nanotribological and Biopassive Properties. <i>ACS Macro Letters</i> , 2018 , 7, 1455-1460	6.6	29
61	Cartilage-targeting dexamethasone prodrugs increase the efficacy of dexamethasone. <i>Journal of Controlled Release</i> , 2019 , 295, 118-129	11.7	27
60	Macroporous hydrogels derived from aqueous dynamic phase separation. <i>Biomaterials</i> , 2019 , 200, 56-65	15.6	26
59	Cartilage issues in football-today's problems and tomorrow's solutions. <i>British Journal of Sports Medicine</i> , 2015 , 49, 590-6	10.3	26
58	Nanocomposite bioink exploits dynamic covalent bonds between nanoparticles and polysaccharides for precision bioprinting. <i>Biofabrication</i> , 2020 , 12, 025025	10.5	26
57	The flavonoid isoquercitrin promotes neurite elongation by reducing RhoA activity. <i>PLoS ONE</i> , 2012 , 7, e49979	3.7	26
56	Osteoarthritis in Football. <i>Cartilage</i> , 2017 , 8, 162-172	3	25
55	An injectable heparin-conjugated hyaluronan scaffold for local delivery of transforming growth factor β promotes successful chondrogenesis. <i>Acta Biomaterialia</i> , 2019 , 99, 168-180	10.8	24
54	Chondrocytes From Device-Minced Articular Cartilage Show Potent Outgrowth Into Fibrin and Collagen Hydrogels. <i>Orthopaedic Journal of Sports Medicine</i> , 2019 , 7, 2325967119867618	3.5	24
53	The epigenetically active small chemical N-methyl pyrrolidone (NMP) prevents estrogen depletion induced osteoporosis. <i>Bone</i> , 2015 , 78, 114-21	4.7	23
52	Comblike Polymers with Topologically Different Side Chains for Surface Modification: Assembly Process and Interfacial Physicochemical Properties. <i>Macromolecules</i> , 2019 , 52, 1632-1641	5.5	22
51	Hairy and Slippery Polyoxazoline-Based Copolymers on Model and Cartilage Surfaces. <i>Biomacromolecules</i> , 2018 , 19, 680-690	6.9	22
50	Human chondroprogenitors in alginate-collagen hybrid scaffolds produce stable cartilage in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3014-3026	4.4	22
49	Guidelines for standardization of bioprinting: a systematic study of process parameters and their effect on bioprinted structures. <i>BioNanoMaterials</i> , 2016 , 17,		22
48	Anti-oxidant and immune-modulatory properties of sulfated alginate derivatives on human chondrocytes and macrophages. <i>Biomaterials Science</i> , 2017 , 5, 1756-1765	7.4	21

47	Axon Growth of CNS Neurons in Three Dimensions Is Amoeboid and Independent of Adhesions. <i>Cell Reports</i> , 2020 , 32, 107907	10.6	20
46	PEG/HA Hybrid Hydrogels for Biologically and Mechanically Tailorable Bone Marrow Organoids. <i>Advanced Functional Materials</i> , 2020 , 30, 1910282	15.6	20
45	Molecularly Engineered Biolubricants for Articular Cartilage. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701463	10.1	19
44	Engineered Microtissues Formed by Schiff Base Crosslinking Restore the Chondrogenic Potential of Aged Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1348-58	10.1	19
43	Characterization of polydactyly chondrocytes and their use in cartilage engineering. <i>Scientific Reports</i> , 2019 , 9, 4275	4.9	18
42	3D extrusion bioprinting. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		17
41	Probing the microenvironmental conditions for induction of superficial zone protein expression. <i>Osteoarthritis and Cartilage</i> , 2013 , 21, 1924-32	6.2	15
40	Tyrosinase-crosslinked, tissue adhesive and biomimetic alginate sulfate hydrogels for cartilage repair. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 045019	3.5	13
39	Functional Nanoassemblies of Cyclic Polymers Show Amplified Responsiveness and Enhanced Protein-Binding Ability. <i>ACS Nano</i> , 2020 , 14, 10054-10067	16.7	13
38	Hypoxia regulates RhoA and Wnt/βcatenin signaling in a context-dependent way to control re-differentiation of chondrocytes. <i>Scientific Reports</i> , 2017 , 7, 9032	4.9	13
37	Enzymatically crosslinked poly(2-alkyl-2-oxazoline) networks for 3D cell culture. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7568-7572	7.3	13
36	Fabrication of cell-compatible hyaluronan hydrogels with a wide range of biophysical properties through high tyramine functionalization. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2355-2363	7.3	12
35	Efficient electroporation of peptides into adherent cells: investigation of the role of mechano-growth factor in chondrocyte culture. <i>Biotechnology Letters</i> , 2011 , 33, 883-8	3	12
34	Development and thorough characterization of the processing steps of an ink for 3D printing for bone tissue engineering. <i>Materials Science and Engineering C</i> , 2020 , 108, 110510	8.3	12
33	Next-Generation Polymer Shells for Inorganic Nanoparticles are Highly Compact, Ultra-Dense, and Long-Lasting Cyclic Brushes. <i>Angewandte Chemie</i> , 2017 , 129, 4578-4582	3.6	11
32	Bioprinting of Cartilaginous Auricular Constructs Utilizing an Enzymatically Crosslinkable Bioink. <i>Advanced Functional Materials</i> , 2021 , 31, 2008261	15.6	11
31	The bromodomain inhibitor N-methyl pyrrolidone reduced fat accumulation in an ovariectomized rat model. <i>Clinical Epigenetics</i> , 2016 , 8, 42	7.7	10
30	Optimized Photoclick (Bio)Resins for Fast Volumetric Bioprinting. <i>Advanced Materials</i> , 2021 , 33, e2102904	10.4	10

29	Microencapsulation improves chondrogenesis in vitro and cartilaginous matrix stability in vivo compared to bulk encapsulation. <i>Biomaterials Science</i> , 2020 , 8, 1711-1725	7.4	10
28	Improved accuracy and precision of bioprinting through progressive cavity pump-controlled extrusion. <i>Biofabrication</i> , 2020 ,	10.5	10
27	Effects of N-Glycosylation of the human cation channel TRPA1 on agonist-sensitivity. <i>Bioscience Reports</i> , 2016 , 36,	4.1	10
26	Femtomolar oligonucleotide detection by a one-step gold nanoparticle-based assay. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 135, 193-200	6	9
25	RhoA activation and nuclearization marks loss of chondrocyte phenotype in crosstalk with Wnt pathway. <i>Experimental Cell Research</i> , 2017 , 360, 113-124	4.2	9
24	Engineered Sulfated Polysaccharides for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2010732	15.6	9
23	Magnetically deliverable calcium phosphate nanoparticles for localized gene expression. <i>RSC Advances</i> , 2015 , 5, 9997-10004	3.7	7
22	The role of poly(2-alkyl-2-oxazoline)s in hydrogels and biofabrication. <i>Biomaterials Science</i> , 2021 , 9, 2874-2886	7	
21	Cyclic Polymer Grafts That Lubricate and Protect Damaged Cartilage. <i>Angewandte Chemie</i> , 2018 , 130, 1637-1642	3.6	6
20	Hydrogels Generated from Cyclic Poly(2-Oxazoline)s Display Unique Swelling and Mechanical Properties. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000658	4.8	6
19	Combination of a Collagen Scaffold and an Adhesive Hyaluronan-Based Hydrogel for Cartilage Regeneration: A Proof of Concept in an Ovine Model. <i>Cartilage</i> , 2021 , 1947603521989417	3	6
18	Cell-Instructive Alginate Hydrogels Targeting RhoA. <i>Bioconjugate Chemistry</i> , 2018 , 29, 3042-3053	6.3	5
17	A comparative study of cartilage engineered constructs in immunocompromised, humanized and immunocompetent mice. <i>Journal of Immunology and Regenerative Medicine</i> , 2018 , 2, 36-46	2.8	5
16	Chemical Design of Non-Ionic Polymer Brushes as Biointerfaces: Poly(2-oxazine)s Outperform Both Poly(2-oxazoline)s and PEG. <i>Angewandte Chemie</i> , 2018 , 130, 11841-11846	3.6	4
15	Functional analysis of synovial fluid from osteoarthritic knee and carpometacarpal joints unravels different molecular profiles. <i>Rheumatology</i> , 2019 , 58, 897-907	3.9	4
14	Improved accuracy and precision of bioprinting through progressive cavity pump-controlled extrusion		4
13	Is There a Scientific Rationale for the Refixation of Delaminated Chondral Flaps in Femoroacetabular Impingement? A Laboratory Study. <i>Clinical Orthopaedics and Related Research</i> , 2020 , 478, 854-867	2.2	3
12	Biomimetic Composites: Amyloid-Hydroxyapatite Bone Biomimetic Composites (Adv. Mater. 20/2014). <i>Advanced Materials</i> , 2014 , 26, 3206-3206	24	2

11	Post-Assembly Photomasking of Potassium Acyltrifluoroborates (KATs) for Two-Photon 3D Patterning of PEG-Hydrogels. <i>Helvetica Chimica Acta</i> , 2020 , 103, e2000172	2	1
10	Artificial bacterial flagella functionalized with temperature-sensitive liposomes for biomedical applications 2013 ,		1
9	3D-Printed Reinforcement Scaffolds with Targeted Biodegradation Properties for the Tissue Engineering of Articular Cartilage. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2101094	10.1	1
8	Engineering Cellular Assembly for Applications in Regenerative Medicine. <i>Nanomedicine and Nanotoxicology</i> , 2014 , 131-145	0.3	1
7	Nanocomposite bioink exploits dynamic covalent bonds between nanoparticles and polysaccharides for precision bioprinting		1
6	Factor XIII Cross-Linked Adhesive Chitosan Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2198-2203	5.5	1
5	Regenerative Potential of Perichondrium: A Tissue Engineering Perspective. <i>Tissue Engineering - Part B: Reviews</i> , 2021 ,	7.9	1
4	Röntgenbild: Next-Generation Polymer Shells for Inorganic Nanoparticles are Highly Compact, Ultra-Dense, and Long-Lasting Cyclic Brushes (Angew. Chem. 16/2017). <i>Angewandte Chemie</i> , 2017 , 129, 4702-4702	3.6	
3	Tissue Engineering: Morphogenesis Guided by 3D Patterning of Growth Factors in Biological Matrices (Adv. Mater. 25/2020). <i>Advanced Materials</i> , 2020 , 32, 2070193	24	
2	[Regeneration - A New Therapeutic Dimension in Otorhinolaryngology]. <i>Laryngo- Rhino- Otologie</i> , 2018 , 97, S185-S213	0.8	
1	Additively Manufactured Semiflexible Titanium Lattices as Hydrogel Reinforcement for Biomedical Implants. <i>Advanced NanoBiomed Research</i> , 2021 , 1, 2000031	0	