Stephanie J Bryant

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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.

112
papers8,244
citations39
h-index90
g-index113
ext. papers9,011
ext. citations7.6
avg, IF6.48
L-index

#	Paper	IF	Citations
112	Biomaterials: where we have been and where we are going. <i>Annual Review of Biomedical Engineering</i> , 2004 , 6, 41-75	12	1188
111	Cell encapsulation in biodegradable hydrogels for tissue engineering applications. <i>Tissue Engineering - Part B: Reviews</i> , 2008 , 14, 149-65	7.9	878
110	Hydrogel properties influence ECM production by chondrocytes photoencapsulated in poly(ethylene glycol) hydrogels. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 59, 63-72		659
109	Cytocompatibility of UV and visible light photoinitiating systems on cultured NIH/3T3 fibroblasts in vitro. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2000 , 11, 439-57	3.5	605
108	In situ forming degradable networks and their application in tissue engineering and drug delivery. Journal of Controlled Release, 2002 , 78, 199-209	11.7	393
107	Controlling the spatial distribution of ECM components in degradable PEG hydrogels for tissue engineering cartilage. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 64, 70-9		354
106	The effects of substrate stiffness on the in vitro activation of macrophages and in vivo host response to poly(ethylene glycol)-based hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 1375-86	5.4	290
105	Encapsulating chondrocytes in degrading PEG hydrogels with high modulus: engineering gel structural changes to facilitate cartilaginous tissue production. <i>Biotechnology and Bioengineering</i> , 2004 , 86, 747-55	4.9	254
104	Tailoring the degradation of hydrogels formed from multivinyl poly(ethylene glycol) and poly(vinyl alcohol) macromers for cartilage tissue engineering. <i>Biomacromolecules</i> , 2003 , 4, 283-92	6.9	240
103	Photo-patterning of porous hydrogels for tissue engineering. <i>Biomaterials</i> , 2007 , 28, 2978-86	15.6	215
102	Crosslinking density influences chondrocyte metabolism in dynamically loaded photocrosslinked poly(ethylene glycol) hydrogels. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 407-17	4.7	194
101	Synthesis and Characterization of Photopolymerized Multifunctional Hydrogels: Water-Soluble Poly(Vinyl Alcohol) and Chondroitin Sulfate Macromers for Chondrocyte Encapsulation. <i>Macromolecules</i> , 2004 , 37, 6726-6733	5.5	157
100	Crosslinking density influences the morphology of chondrocytes photoencapsulated in PEG hydrogels during the application of compressive strain. <i>Journal of Orthopaedic Research</i> , 2004 , 22, 1143	3- 3 .8	149
99	Manipulations in hydrogel chemistry control photoencapsulated chondrocyte behavior and their extracellular matrix production. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 67, 1430-6	5.4	128
98	Comparison of photopolymerizable thiol-ene PEG and acrylate-based PEG hydrogels for cartilage development. <i>Biomaterials</i> , 2013 , 34, 9969-79	15.6	114
97	Incorporation of tissue-specific molecules alters chondrocyte metabolism and gene expression in photocrosslinked hydrogels. <i>Acta Biomaterialia</i> , 2005 , 1, 243-52	10.8	105
96	Immunomodulation by mesenchymal stem cells combats the foreign body response to cell-laden synthetic hydrogels. <i>Biomaterials</i> , 2015 , 41, 79-88	15.6	91

(2013-2015)

95	Linking the foreign body response and protein adsorption to PEG-based hydrogels using proteomics. <i>Biomaterials</i> , 2015 , 41, 26-36	15.6	89
94	Characterization of the in vitro macrophage response and in vivo host response to poly(ethylene glycol)-based hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 93, 941-53	5.4	85
93	Mechanical loading regulates human MSC differentiation in a multi-layer hydrogel for osteochondral tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 21, 142-53	10.8	80
92	Designing 3D photopolymer hydrogels to regulate biomechanical cues and tissue growth for cartilage tissue engineering. <i>Pharmaceutical Research</i> , 2008 , 25, 2379-86	4.5	64
91	Temporal progression of the host response to implanted poly(ethylene glycol)-based hydrogels. Journal of Biomedical Materials Research - Part A, 2011 , 96, 621-31	5.4	60
90	Understanding and Improving Mechanical Properties in 3D printed Parts Using a Dual-Cure Acrylate-Based Resin for Stereolithography. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800876	3.5	56
89	The effects of intermittent dynamic loading on chondrogenic and osteogenic differentiation of human marrow stromal cells encapsulated in RGD-modified poly(ethylene glycol) hydrogels. <i>Acta Biomaterialia</i> , 2011 , 7, 3829-40	10.8	55
88	Cell-matrix interactions and dynamic mechanical loading influence chondrocyte gene expression and bioactivity in PEG-RGD hydrogels. <i>Acta Biomaterialia</i> , 2009 , 5, 2832-46	10.8	53
87	Comparative study of the viscoelastic mechanical behavior of agarose and poly(ethylene glycol) hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 99, 158-69	3.5	52
86	An enzyme-sensitive PEG hydrogel based on aggrecan catabolism for cartilage tissue engineering. <i>Advanced Healthcare Materials</i> , 2015 , 4, 420-31	10.1	51
85	Degradation improves tissue formation in (un)loaded chondrocyte-laden hydrogels. <i>Clinical Orthopaedics and Related Research</i> , 2011 , 469, 2725-34	2.2	50
84	Tuning tissue growth with scaffold degradation in enzyme-sensitive hydrogels: a mathematical model. <i>Soft Matter</i> , 2016 , 12, 7505-20	3.6	49
83	Dynamic loading stimulates chondrocyte biosynthesis when encapsulated in charged hydrogels prepared from poly(ethylene glycol) and chondroitin sulfate. <i>Matrix Biology</i> , 2010 , 29, 51-62	11.4	49
82	Semi-interpenetrating networks of hyaluronic acid in degradable PEG hydrogels for cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 3409-20	10.8	48
81	Nondestructive evaluation of a new hydrolytically degradable and photo-clickable PEG hydrogel for cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2016 , 39, 1-11	10.8	47
80	Zwitterionic PEG-PC Hydrogels Modulate the Foreign Body Response in a Modulus-Dependent Manner. <i>Biomacromolecules</i> , 2018 , 19, 2880-2888	6.9	46
79	Programmable Hydrogels for Cell Encapsulation and Neo-Tissue Growth to Enable Personalized Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700605	10.1	46
78	On the role of hydrogel structure and degradation in controlling the transport of cell-secreted matrix molecules for engineered cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 19, 61-74	4.1	45

77	Mechanical stimulation of TMJ condylar chondrocytes encapsulated in PEG hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 83, 323-31	5.4	41
76	Influence of ECM proteins and their analogs on cells cultured on 2-D hydrogels for cardiac muscle tissue engineering. <i>Acta Biomaterialia</i> , 2009 , 5, 2929-38	10.8	40
75	Phenotypic changes in bone marrow-derived murine macrophages cultured on PEG-based hydrogels activated or not by lipopolysaccharide. <i>Acta Biomaterialia</i> , 2011 , 7, 123-32	10.8	40
74	Tissue engineering approaches to cell-based type 1 diabetes therapy. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 455-67	7.9	39
73	Chondroitin sulfate and dynamic loading alter chondrogenesis of human MSCs in PEG hydrogels. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2671-82	4.9	39
7 ²	Presence of pores and hydrogel composition influence tensile properties of scaffolds fabricated from well-defined sphere templates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 96, 294-302	3.5	36
71	Heterogeneity is key to hydrogel-based cartilage tissue regeneration. Soft Matter, 2017, 13, 4841-4855	3.6	33
70	The role of chondroitin sulfate in regulating hypertrophy during MSC chondrogenesis in a cartilage mimetic hydrogel under dynamic loading. <i>Biomaterials</i> , 2019 , 190-191, 51-62	15.6	33
69	Indentation mapping revealed poroelastic, but not viscoelastic, properties spanning native zonal articular cartilage. <i>Acta Biomaterialia</i> , 2017 , 64, 41-49	10.8	32
68	Alignment of multi-layered muscle cells within three-dimensional hydrogel macrochannels. <i>Acta Biomaterialia</i> , 2012 , 8, 2193-202	10.8	31
67	Interaction of hyaluronan binding peptides with glycosaminoglycans in poly(ethylene glycol) hydrogels. <i>Biomacromolecules</i> , 2014 , 15, 1132-41	6.9	30
66	Understanding the host response to cell-laden poly(ethylene glycol)-based hydrogels. <i>Biomaterials</i> , 2013 , 34, 952-64	15.6	29
65	Enzymatically degradable poly(ethylene glycol) hydrogels for the 3D culture and release of human embryonic stem cell derived pancreatic precursor cell aggregates. <i>Acta Biomaterialia</i> , 2015 , 22, 103-10	10.8	28
64	The In Vitro and In Vivo Response to MMP-Sensitive Poly(Ethylene Glycol) Hydrogels. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1959-69	4.7	26
63	Determination of the Polymer-Solvent Interaction Parameter for PEG Hydrogels in Water: Application of a Self Learning Algorithm. <i>Polymer</i> , 2015 , 66, 135-147	3.9	25
62	An in vitro and in vivo comparison of cartilage growth in chondrocyte-laden matrix metalloproteinase-sensitive poly(ethylene glycol) hydrogels with localized transforming growth factor B. <i>Acta Biomaterialia</i> , 2019 , 93, 97-110	10.8	23
61	A Stereolithography-Based 3D Printed Hybrid Scaffold for In Situ Cartilage Defect Repair. <i>Macromolecular Bioscience</i> , 2018 , 18, 1700267	5.5	23
60	Triphasic mixture model of cell-mediated enzymatic degradation of hydrogels. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15, 1197-210	2.1	23

(2009-2018)

59	The effects of hydroxyapatite nanoparticles embedded in a MMP-sensitive photoclickable PEG hydrogel on encapsulated MC3T3-E1 pre-osteoblasts. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 045009	3.5	22
58	Cross-linking density alters early metabolic activities in chondrocytes encapsulated in poly(ethylene glycol) hydrogels and cultured in the rotating wall vessel. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1242-50	4.9	22
57	The Host Response in Tissue Engineering: Crosstalk Between Immune cells and Cell-laden Scaffolds. <i>Current Opinion in Biomedical Engineering</i> , 2018 , 6, 58-65	4.4	21
56	A photoclickable peptide microarray platform for facile and rapid screening of 3-D tissue microenvironments. <i>Biomaterials</i> , 2017 , 143, 17-28	15.6	21
55	Dynamic compressive loading differentially regulates chondrocyte anabolic and catabolic activity with age. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2046-57	4.9	21
54	Tuning Reaction and Diffusion Mediated Degradation of Enzyme-Sensitive Hydrogels. <i>Advanced Healthcare Materials</i> , 2016 , 5, 432-8	10.1	20
53	Incorporation of biomimetic matrix molecules in PEG hydrogels enhances matrix deposition and reduces load-induced loss of chondrocyte-secreted matrix. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 281-91	5.4	20
52	A MMP7-sensitive photoclickable biomimetic hydrogel for MSC encapsulation towards engineering human cartilage. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2344-2355	5.4	18
51	Three dimensional live cell lithography. <i>Optics Express</i> , 2013 , 21, 10269-77	3.3	18
50	Age impacts extracellular matrix metabolism in chondrocytes encapsulated in degradable hydrogels. <i>Biomedical Materials (Bristol)</i> , 2012 , 7, 024111	3.5	18
49	Biomimetic soft fibrous hydrogels for contractile and pharmacologically responsive smooth muscle. <i>Acta Biomaterialia</i> , 2018 , 74, 121-130	10.8	18
48	Mechanical characterization of sequentially layered photo-clickable thiol-ene hydrogels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 454-465	4.1	17
47	Characterization of the chondrocyte secretome in photoclickable poly(ethylene glycol) hydrogels. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2096-2108	4.9	16
46	Local Heterogeneities Improve Matrix Connectivity in Degradable and Photoclickable Poly(ethylene glycol) Hydrogels for Applications in Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2480-2492	5.5	16
45	Understanding the Spatiotemporal Degradation Behavior of Aggrecanase-Sensitive Poly(ethylene glycol) Hydrogels for Use in Cartilage Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2017 , 23, 795-810	3.9	15
44	The in vitro effects of macrophages on the osteogenic capabilities of MC3T3-E1 cells encapsulated in a biomimetic poly(ethylene glycol) hydrogel. <i>Acta Biomaterialia</i> , 2018 , 71, 37-48	10.8	15
43	Regenerative Medicine Approaches for the Treatment of Pediatric Physeal Injuries. <i>Tissue Engineering - Part B: Reviews</i> , 2018 , 24, 85-97	7.9	15
42	Medium osmolarity and pericellular matrix development improves chondrocyte survival when photoencapsulated in poly(ethylene glycol) hydrogels at low densities. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3037-48	3.9	15

41	Current and novel injectable hydrogels to treat focal chondral lesions: Properties and applicability. Journal of Orthopaedic Research, 2018 , 36, 64-75	3.8	14
40	Cell encapsulation spatially alters crosslink density of poly(ethylene glycol) hydrogels formed from free-radical polymerizations. <i>Acta Biomaterialia</i> , 2020 , 109, 37-50	10.8	14
39	Stereolithographic 3D Printing for Deterministic Control over Integration in Dual-Material Composites. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900592	6.8	13
38	Effects of cell adhesion motif, fiber stiffness, and cyclic strain on tenocyte gene expression in a tendon mimetic fiber composite hydrogel. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 499, 642-647	3.4	13
37	Ionic osmolytes and intracellular calcium regulate tissue production in chondrocytes cultured in a 3D charged hydrogel. <i>Matrix Biology</i> , 2014 , 40, 17-26	11.4	13
36	Photopolymerizable Injectable Cartilage Mimetic Hydrogel for the Treatment of Focal Chondral Lesions: A Proof of Concept Study in a Rabbit Animal Model. <i>American Journal of Sports Medicine</i> , 2019 , 47, 212-221	6.8	13
35	Recapitulating the Micromechanical Behavior of Tension and Shear in a Biomimetic Hydrogel for Controlling Tenocyte Response. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601095	10.1	12
34	and Models for Assessing the Host Response to Biomaterials. <i>Drug Discovery Today: Disease Models</i> , 2017 , 24, 13-21	1.3	12
33	Characterization of a Novel Fiber Composite Material for Mechanotransduction Research of Fibrous Connective Tissues. <i>Advanced Functional Materials</i> , 2010 , 20, 738-747	15.6	12
32	Photopolymerization of Hydrogel Scaffolds 2005 , 71-90		12
32	Photopolymerization of Hydrogel Scaffolds 2005 , 71-90 Dynamic mechanical loading and growth factors influence chondrogenesis of induced pluripotent mesenchymal progenitor cells in a cartilage-mimetic hydrogel. <i>Biomaterials Science</i> , 2019 , 7, 5388-5403	7.4	12
	Dynamic mechanical loading and growth factors influence chondrogenesis of induced pluripotent	7·4 4·1	
31	Dynamic mechanical loading and growth factors influence chondrogenesis of induced pluripotent mesenchymal progenitor cells in a cartilage-mimetic hydrogel. <i>Biomaterials Science</i> , 2019 , 7, 5388-5403 IDG-SW3 Osteocyte Differentiation and Bone Extracellular Matrix Deposition Are Enhanced in a 3D	4.1	12
31	Dynamic mechanical loading and growth factors influence chondrogenesis of induced pluripotent mesenchymal progenitor cells in a cartilage-mimetic hydrogel. <i>Biomaterials Science</i> , 2019 , 7, 5388-5403 IDG-SW3 Osteocyte Differentiation and Bone Extracellular Matrix Deposition Are Enhanced in a 3D Matrix Metalloproteinase-Sensitive Hydrogel. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1666-1680	4.1	12
31 30 29	Dynamic mechanical loading and growth factors influence chondrogenesis of induced pluripotent mesenchymal progenitor cells in a cartilage-mimetic hydrogel. <i>Biomaterials Science</i> , 2019 , 7, 5388-5403 IDG-SW3 Osteocyte Differentiation and Bone Extracellular Matrix Deposition Are Enhanced in a 3D Matrix Metalloproteinase-Sensitive Hydrogel. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1666-1680 Inflammation via myeloid differentiation primary response gene 88 signaling mediates the fibrotic response to implantable synthetic poly(ethylene glycol) hydrogels. <i>Acta Biomaterialia</i> , 2019 , 100, 105-12. Viscoelastic and Thermoreversible Networks Crosslinked by Non-covalent Interactions Between "Clickable" Nucleic Acids Oligomers and DNA <i>Polymer Chemistry</i> , 2020 , 11, 2959-2968 Viscoelasticity of hydrazone crosslinked poly(ethylene glycol) hydrogels directs chondrocyte	4.1 1 ¹ 9.8	12 11 10
31 30 29 28	Dynamic mechanical loading and growth factors influence chondrogenesis of induced pluripotent mesenchymal progenitor cells in a cartilage-mimetic hydrogel. <i>Biomaterials Science</i> , 2019 , 7, 5388-5403 IDG-SW3 Osteocyte Differentiation and Bone Extracellular Matrix Deposition Are Enhanced in a 3D Matrix Metalloproteinase-Sensitive Hydrogel. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1666-1680 Inflammation via myeloid differentiation primary response gene 88 signaling mediates the fibrotic response to implantable synthetic poly(ethylene glycol) hydrogels. <i>Acta Biomaterialia</i> , 2019 , 100, 105-12. Viscoelastic and Thermoreversible Networks Crosslinked by Non-covalent Interactions Between "Clickable" Nucleic Acids Oligomers and DNA <i>Polymer Chemistry</i> , 2020 , 11, 2959-2968 Viscoelasticity of hydrazone crosslinked poly(ethylene glycol) hydrogels directs chondrocyte	4.1 1 ¹ 7 ^{0.8} 4.9	12 11 10
31 30 29 28 27	Dynamic mechanical loading and growth factors influence chondrogenesis of induced pluripotent mesenchymal progenitor cells in a cartilage-mimetic hydrogel. <i>Biomaterials Science</i> , 2019 , 7, 5388-5403 IDG-SW3 Osteocyte Differentiation and Bone Extracellular Matrix Deposition Are Enhanced in a 3D Matrix Metalloproteinase-Sensitive Hydrogel. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1666-1680 Inflammation via myeloid differentiation primary response gene 88 signaling mediates the fibrotic response to implantable synthetic poly(ethylene glycol) hydrogels. <i>Acta Biomaterialia</i> , 2019 , 100, 105-12. Viscoelastic and Thermoreversible Networks Crosslinked by Non-covalent Interactions Between "Clickable" Nucleic Acids Oligomers and DNA <i>Polymer Chemistry</i> , 2020 , 11, 2959-2968 Viscoelasticity of hydrazone crosslinked poly(ethylene glycol) hydrogels directs chondrocyte morphology during mechanical deformation. <i>Biomaterials Science</i> , 2020 , 8, 3804-3811 A comparison of human mesenchymal stem cell osteogenesis in poly(ethylene glycol) hydrogels as a function of MMP-sensitive crosslinker and crosslink density in chemically defined medium.	4.1 1 ¹ / ₇ 0.8 4.9 7.4	12 11 10 10

(2019-2020)

23	Prostaglandin E2 and Its Receptor EP2 Modulate Macrophage Activation and Fusion. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2668-2681	5.5	8
22	The role of percolation in hydrogel-based tissue engineering and bioprinting Current Opinion in Biomedical Engineering, 2020, 15, 68-74	4.4	8
21	An Instrumented Bioreactor for Mechanical Stimulation and Real-Time, Nondestructive Evaluation of Engineered Cartilage Tissue. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012 , 6,	1.3	8
20	Stabilization of Fibronectin by Random Copolymer Brushes Inhibits Macrophage Activation <i>ACS Applied Bio Materials</i> , 2019 , 2, 4698-4702	4.1	8
19	Microscale Photopatterning of Through-thickness Modulus in a Monolithic and Functionally Graded 3D Printed Part. <i>Small Science</i> , 2021 , 1, 2000017		8
18	Tethering transforming growth factor 1 to soft hydrogels guides vascular smooth muscle commitment from human mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2020 , 105, 68-77	10.8	7
17	Cytocompatibility and Cellular Internalization of PEGylated "Clickable" Nucleic Acid Oligomers. <i>Biomacromolecules</i> , 2018 , 19, 2535-2541	6.9	7
16	Influence of chondrocyte maturation on acute response to impact injury in PEG hydrogels. <i>Journal of Biomechanics</i> , 2012 , 45, 2556-63	2.9	7
15	Mechanobiological Interactions between Dynamic Compressive Loading and Viscoelasticity on Chondrocytes in Hydrazone Covalent Adaptable Networks for Cartilage Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002030	10.1	7
14	Mechanics of 3D Cell-Hydrogel Interactions: Experiments, Models, and Mechanisms. <i>Chemical Reviews</i> , 2021 , 121, 11085-11148	68.1	6
13	Photo-tunable hydrogel mechanical heterogeneity informed by predictive transport kinetics model. <i>Soft Matter</i> , 2020 , 16, 4131-4141	3.6	4
12	Messenger RNA enrichment using synthetic oligo(T) click nucleic acids. <i>Chemical Communications</i> , 2020 , 56, 13987-13990	5.8	4
11	The Effects of Stably Tethered BMP-2 on MC3T3-E1 Preosteoblasts Encapsulated in a PEG Hydrogel. <i>Biomacromolecules</i> , 2021 , 22, 1065-1079	6.9	3
10	Biomimetic and mechanically supportive 3D printed scaffolds for cartilage and osteochondral tissue engineering using photopolymers and digital light processing. <i>Biofabrication</i> , 2021 , 13,	10.5	3
9	Assessment and prevention of cartilage degeneration surrounding a focal chondral defect in the porcine model. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 514, 940-945	3.4	2
8	Spatiotemporal neocartilage growth in matrix-metalloproteinase-sensitive poly(ethylene glycol) hydrogels under dynamic compressive loading: an experimental and computational approach. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 2775-2791	7.3	2
7	A 3D, Dynamically Loaded Hydrogel Model of the Osteochondral Unit to Study Osteocyte Mechanobiology. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001226	10.1	2
6	Rabbit Model of Physeal Injury for the Evaluation of Regenerative Medicine Approaches. <i>Tissue Engineering - Part C: Methods</i> , 2019 , 25, 701-710	2.9	2

5	Physiological osmolarities do not enhance long-term tissue synthesis in chondrocyte-laden degradable poly(ethylene glycol) hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2186-92	5.4	1
4	Hydrolytically Degradable Poly(Elamino ester) Resins with Tunable Degradation for 3D Printing by Projection Micro-Stereolithography. <i>Advanced Functional Materials</i> ,2106509	15.6	1
3	The effects of processing variables on electrospun poly(ethylene glycol) fibrous hydrogels formed from the thiol-norbornene click reaction. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50786	2.9	1
2	Synthesis and Characterization of Click Nucleic Acid Conjugated Polymeric Microparticles for DNA Delivery Applications. <i>Biomacromolecules</i> , 2021 , 22, 1127-1136	6.9	1
1	Mapping Macrophage Polarization and Origin during the Progression of the Foreign Body Response to a Poly(ethylene glycol) Hydrogel Implant <i>Advanced Healthcare Materials</i> , 2021 , e2102209	10.1	О