Jason A Burdick

List of Publications by Year
in descending order

305 papers	41,297 citations	1238 110 h-index	2684 193 g-index
314 all docs	314 docs citations	314 times ranked	32130 citing authors

#	Article	IF	Citations
1	Matrix Metalloproteinase-Targeted SPECT/CT Imaging for Evaluation of Therapeutic Hydrogels for the Early Modulation of Post-Infarct Myocardial Remodeling. Journal of Cardiovascular Translational Research, 2023, 16, 155-165.	2.4	3
2	Computational Modeling and Experimental Characterization of Extrusion Printing into Suspension Baths. Advanced Healthcare Materials, 2022, 11, e2101679.	7.6	16
3	Harnessing Tissue-derived Extracellular Vesicles for Osteoarthritis Theranostics. Theranostics, 2022, 12, 207-231.	10.0	53
4	Fabrication of MSC-laden composites of hyaluronic acid hydrogels reinforced with MEW scaffolds for cartilage repair. Biofabrication, 2022, 14, 014106.	7.1	34
5	Anisotropic Rodâ€Shaped Particles Influence Injectable Granular Hydrogel Properties and Cell Invasion. Advanced Materials, 2022, 34, e2109194.	21.0	48
6	Metabolic labeling of secreted matrix to investigate cellâ€"material interactions in tissue engineering and mechanobiology. Nature Protocols, 2022, 17, 618-648.	12.0	14
7	Anisotropic Rodâ€Shaped Particles Influence Injectable Granular Hydrogel Properties and Cell Invasion (Adv. Mater. 12/2022). Advanced Materials, 2022, 34, .	21.0	5
8	Sticking Together: Injectable Granular Hydrogels with Increased Functionality via Dynamic Covalent Interâ€Particle Crosslinking. Small, 2022, 18, e2201115.	10.0	45
9	Methods to Characterize Granular Hydrogel Rheological Properties, Porosity, and Cell Invasion. ACS Biomaterials Science and Engineering, 2022, 8, 1427-1442.	5.2	39
10	Programming hydrogels to probe spatiotemporal cell biology. Cell Stem Cell, 2022, 29, 678-691.	11.1	28
11	Microstructured Hydrogels to Guide Selfâ€Assembly and Function of Lung Alveolospheres. Advanced Materials, 2022, 34, e2202992.	21.0	21
12	Simultaneous Oneâ€Pot Interpenetrating Network Formation to Expand 3D Processing Capabilities. Advanced Materials, 2022, 34, e2202261.	21.0	20
13	Resorbable Pins to Enhance Scaffold Retention in a Porcine Chondral Defect Model. Cartilage, 2021, 13, 1676S-1687S.	2.7	6
14	Chemically Modified Biopolymers for the Formation of Biomedical Hydrogels. Chemical Reviews, 2021, 121, 10908-10949.	47.7	216
15	Injectable hyaluronic acid and platelet lysate-derived granular hydrogels for biomedical applications. Acta Biomaterialia, 2021, 119, 101-113.	8.3	47
16	Bioprinting for the Biologist. Cell, 2021, 184, 18-32.	28.9	152
17	Influence of Microgel Fabrication Technique on Granular Hydrogel Properties. ACS Biomaterials Science and Engineering, 2021, 7, 4269-4281.	5.2	84
18	3D bioprinting of high cell-density heterogeneous tissue models through spheroid fusion within self-healing hydrogels. Nature Communications, 2021, 12, 753.	12.8	247

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19	Nuclear envelope wrinkling predicts mesenchymal progenitor cell mechano-response in 2D and 3D microenvironments. Biomaterials, 2021, 270, 120662.	11.4	33
20	Stabilization of Damaged Articular Cartilage with Hydrogelâ€Mediated Reinforcement and Sealing. Advanced Healthcare Materials, 2021, 10, 2100315.	7.6	17
21	Granular hydrogels for endogenous tissue repair. Biomaterials and Biosystems, 2021, 1, 100008.	2.2	50
22	Therapeutic Efficacy of Cryopreserved, Allogeneic Extracellular Vesicles for Treatment of Acute Myocardial Infarction. International Heart Journal, 2021, 62, 381-389.	1.0	6
23	Genomic, epigenomic, and biophysical cues controlling the emergence of the lung alveolus. Science, 2021, 371, .	12.6	108
24	Detecting and Monitoring Hydrogels with Medical Imaging. ACS Biomaterials Science and Engineering, 2021, 7, 4027-4047.	5.2	30
25	Enhancing Biopolymer Hydrogel Functionality through Interpenetrating Networks. Trends in Biotechnology, 2021, 39, 519-538.	9.3	138
26	Tissue Engineering: Stabilization of Damaged Articular Cartilage with Hydrogelâ€Mediated Reinforcement and Sealing (Adv. Healthcare Mater. 10/2021). Advanced Healthcare Materials, 2021, 10, 2170049.	7.6	2
27	Emerging technologies provide insights on cancer extracellular matrix biology and therapeutics. IScience, 2021, 24, 102475.	4.1	9
28	Nanofibrous hyaluronic acid scaffolds delivering TGF-Î²3 and SDF-1Î± for articular cartilage repair in a large animal model. Acta Biomaterialia, 2021, 126, 170-182.	8.3	40
29	Novel Treatment for Glioblastoma Delivered by a Radiation Responsive and Radiopaque Hydrogel. ACS Biomaterials Science and Engineering, 2021, 7, 3209-3220.	5.2	20
30	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. Nature Communications, 2021, 12, 3514.	12.8	92
31	Editorial: Special Issue on Advanced Biomedical Hydrogels. ACS Biomaterials Science and Engineering, 2021, 7, 3993-3996.	5.2	3
32	Introduction: Polymeric Biomaterials. Chemical Reviews, 2021, 121, 10789-10791.	47.7	24
33	A biofabrication method to align cells within bioprinted photocrosslinkable and cell-degradable hydrogel constructs via embedded fibers. Biofabrication, 2021, 13, 044108.	7.1	37
34	Restoring lost nigrostriatal fibers in Parkinsonâ€™s disease based on clinically-inspired design criteria. Brain Research Bulletin, 2021, 175, 168-185.	3.0	14
35	Programmable and contractile materials through cell encapsulation in fibrous hydrogel assemblies. Science Advances, 2021, 7, eabi8157.	10.3	36
36	Delayed delivery of endothelial progenitor cell-derived extracellular vesicles via shear thinning gel improves postinfarct hemodynamics. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, 1825-1835.e2.	0.8	32

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37	Hydrogel microparticles for biomedical applications. Nature Reviews Materials, 2020, 5, 20-43.	48.7	646
38	Recent advances in shearâ€thinning and selfâ€healing hydrogels for biomedical applications. Journal of Applied Polymer Science, 2020, 137, 48668.	2.6	192
39	Recent Advances in Enabling Technologies in 3D Printing for Precision Medicine. Advanced Materials, 2020, 32, e1902516.	21.0	126
40	Influence of Fiber Stiffness on Meniscal Cell Migration into Dense Fibrous Networks. Advanced Healthcare Materials, 2020, 9, e1901228.	7.6	33
41	Alginateâ€Boronic Acid: pHâ€Triggered Bioinspired Glue for Hydrogel Assembly. Advanced Functional Materials, 2020, 30, 1908497.	14.9	52
42	Mechanochemical Adhesion and Plasticity in Multifiber Hydrogel Networks. Advanced Materials, 2020, 32, e1905719.	21.0	43
43	Engineered Fullâ€Length Fibronectinâ€"Hyaluronic Acid Hydrogels for Stem Cell Engineering. Advanced Healthcare Materials, 2020, 9, e2000989.	7.6	28
44	A Bioengineered Neuregulin-Hydrogel Therapy Reduces Scar Size and Enhances Post-Infarct Ventricular Contractility in an Ovine Large Animal Model. Journal of Cardiovascular Development and Disease, 2020, 7, 53.	1.6	8
45	How hydrogel inclusions modulate the local mechanical response in early and fully formed post-infarcted myocardium. Acta Biomaterialia, 2020, 114, 296-306.	8.3	16
46	Expanding and optimizing 3D bioprinting capabilities using complementary network bioinks. Science Advances, 2020, 6, .	10.3	156
47	Injectable Shear-Thinning Hydrogels Prevent Ischemic Mitral Regurgitation and Normalize Ventricular Flow Dynamics. Seminars in Thoracic and Cardiovascular Surgery, 2020, 32, 445-453.	0.6	1
48	Imaging of Injectable Hydrogels Delivered into Myocardium with SPECT/CT. Advanced Healthcare Materials, 2020, 9, e2000294.	7.6	22
49	Nuclear softening expedites interstitial cell migration in fibrous networks and dense connective tissues. Science Advances, 2020, 6, eaax5083.	10.3	36
50	Engineered Biomaterial Platforms to Study Fibrosis. Advanced Healthcare Materials, 2020, 9, e1901682.	7.6	53
51	Metabolic Labeling to Probe the Spatiotemporal Accumulation of Matrix at the Chondrocyteâ€"Hydrogel Interface. Advanced Functional Materials, 2020, 30, 1909802.	14.9	48
52	Hydrogels: Mechanochemical Adhesion and Plasticity in Multifiber Hydrogel Networks (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	21.0	0
53	The bioprinting roadmap. Biofabrication, 2020, 12, 022002.	7.1	291
54	Fundamentals and Applications of Photo-Cross-Linking in Bioprinting. Chemical Reviews, 2020, 120, 10662-10694.	47.7	222

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55	Moving hydrogels to the fourth dimension. Nature Materials, 2019, 18, 914-915.	27.5	16
56	Injectable and Conductive Granular Hydrogels for 3D Printing and Electroactive Tissue Support. Advanced Science, 2019, 6, 1901229.	11.2	118
57	Influence of hyaluronic acid modification on CD44 binding towards the design of hydrogel biomaterials. Biomaterials, 2019, 222, 119451.	11.4	100
58	Tailoring supramolecular guestâ€"host hydrogel viscoelasticity with covalent fibrinogen double networks. Journal of Materials Chemistry B, 2019, 7, 1753-1760.	5.8	36
59	Local nascent protein deposition and remodelling guide mesenchymal stromal cell mechanosensing and fate in three-dimensional hydrogels. Nature Materials, 2019, 18, 883-891.	27.5	273
60	Engineered Fibrous Networks To Investigate the Influence of Fiber Mechanics on Myofibroblast Differentiation. ACS Biomaterials Science and Engineering, 2019, 5, 3899-3908.	5.2	42
61	3D bioprinting via an in situ crosslinking technique towards engineering cartilage tissue. Scientific Reports, 2019, 9, 19987.	3.3	107
62	Delivery of progenitor cells with injectable shear-thinning hydrogel maintains geometry and normalizes strain to stabilize cardiac function after ischemia. Journal of Thoracic and Cardiovascular Surgery, 2019, 157, 1479-1490.	0.8	22
63	Extracellular vesicles mediate improved functional outcomes in engineered cartilage produced from MSC/chondrocyte cocultures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1569-1578.	7.1	47
64	Gallol-derived ECM-mimetic adhesive bioinks exhibiting temporal shear-thinning and stabilization behavior. Acta Biomaterialia, 2019, 95, 165-175.	8.3	84
65	Jammed Microgel Inks for 3D Printing Applications. Advanced Science, 2019, 6, 1801076.	11.2	270
66	Injectable Supramolecular Hydrogel/Microgel Composites for Therapeutic Delivery. Macromolecular Bioscience, 2019, 19, e1800248.	4.1	65
67	Bioactive factors for cartilage repair and regeneration: Improving delivery, retention, and activity. Acta Biomaterialia, 2019, 93, 222-238.	8.3	101
68	Matching material and cellular timescales maximizes cell spreading on viscoelastic substrates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2686-E2695.	7.1	183
69	Nuclear-Import Receptors Reverse Aberrant Phase Transitions of RNA-Binding Proteins with Prion-like Domains. Cell, 2018, 173, 677-692.e20.	28.9	376
70	Frontispiece: Rutheniumâ€Crosslinked Hydrogels with Rapid, Visibleâ€Light Degradation. Chemistry - A European Journal, 2018, 24, .	3.3	0
71	Combinatorial hydrogels with biochemical gradients for screening 3D cellular microenvironments. Nature Communications, 2018, 9, 614.	12.8	150
72	Antisecretory Factorâ€"Mediated Inhibition of Cell Volume Dynamics Produces Antitumor Activity in Glioblastoma. Molecular Cancer Research, 2018, 16, 777-790.	3.4	16

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73	Engineering Stem and Stromal Cell Therapies for Musculoskeletal Tissue Repair. Cell Stem Cell, 2018, 22, 325-339.	11.1	132
74	Reversible Control of Network Properties in Azobenzene-Containing Hyaluronic Acid-Based Hydrogels. Bioconjugate Chemistry, 2018, 29, 905-913.	3.6	132
75	Dose and Timing of Nâ€Cadherin Mimetic Peptides Regulate MSC Chondrogenesis within Hydrogels. Advanced Healthcare Materials, 2018, 7, e1701199.	7.6	51
76	Threeâ€dimensional extrusion bioprinting of singleâ€and doubleâ€network hydrogels containing dynamic covalent crosslinks. Journal of Biomedical Materials Research - Part A, 2018, 106, 865-875.	4.0	218
77	Biofabrication strategies for 3D in vitro models and regenerative medicine. Nature Reviews Materials, 2018, 3, 21-37.	48.7	502
78	Facile Biofabrication of Heterogeneous Multilayer Tubular Hydrogels by Fast Diffusion-Induced Gelation. ACS Applied Materials & Interfaces, 2018, 10, 12424-12430.	8.0	37
79	Injectable Granular Hydrogels with Multifunctional Properties for Biomedical Applications. Advanced Materials, 2018, 30, e1705912.	21.0	224
80	Sustained release of endothelial progenitor cell-derived extracellular vesicles from shear-thinning hydrogels improves angiogenesis and promotes function after myocardial infarction. Cardiovascular Research, 2018, 114, 1029-1040.	3.8	147
81	Rutheniumâ€Crosslinked Hydrogels with Rapid, Visibleâ€Light Degradation. Chemistry - A European Journal, 2018, 24, 2328-2333.	3.3	36
82	Biofabrication: A Guide to Technology and Terminology. Trends in Biotechnology, 2018, 36, 384-402.	9.3	465
83	Biomaterial-Based Delivery of a Small Molecule Matrix Metalloproteinase Inhibitor Limits Adverse Biomechanical Changes Throughout the Left Ventricle Following Myocardial Infarction. Journal of Cardiac Failure, 2018, 24, S40.	1.7	0
84	Cathelicidin Related Antimicrobial Peptide (CRAMP) Enhances Bone Marrow Cell Retention and Attenuates Cardiac Dysfunction in a Mouse Model of Myocardial Infarction. Stem Cell Reviews and Reports, 2018, 14, 702-714.	5.6	11
85	Delivery of a matrix metalloproteinase-responsive hydrogel releasing TIMP-3 after myocardial infarction: effects on left ventricular remodeling. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H814-H825.	3.2	44
86	Injectable and protease-degradable hydrogel for siRNA sequestration and triggered delivery to the heart. Journal of Controlled Release, 2018, 285, 152-161.	9.9	84
87	Effects of hydrogel injection on borderzone contractility post-myocardial infarction. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1533-1542.	2.8	18
88	Complex 3Dâ€Printed Microchannels within Cellâ€Degradable Hydrogels. Advanced Functional Materials, 2018, 28, 1801331.	14.9	171
89	Photopatterned Hydrogels to Investigate the Endothelial Cell Response to Matrix Stiffness Heterogeneity. ACS Biomaterials Science and Engineering, 2017, 3, 3007-3016.	5.2	41
90	<sup />Thermosensitive Poly(N-vinylcaprolactam) Injectable Hydrogels for Cartilage Tissue Engineering. Tissue Engineering - Part A, 2017, 23, 935-945.	3.1	51

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91	Multiscale model predicts increasing focal adhesion size with decreasing stiffness in fibrous matrices. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4549-E4555.	7.1	88
92	Enhanced nutrient transport improves the depth-dependent properties of tri-layered engineered cartilage constructs with zonal co-culture of chondrocytes and MSCs. Acta Biomaterialia, 2017, 58, 1-11.	8.3	24
93	Norbornene-modified poly(glycerol sebacate) as a photocurable and biodegradable elastomer. Polymer Chemistry, 2017, 8, 5091-5099.	3.9	46
94	Injectable, Guestâ€"Host Assembled Polyethylenimine Hydrogel for siRNA Delivery. Biomacromolecules, 2017, 18, 77-86.	5.4	67
95	A Generalizable Strategy for the 3D Bioprinting of Hydrogels from Nonviscous Photoâ€crosslinkable Inks. Advanced Materials, 2017, 29, 1604983.	21.0	414
96	Engineered Hydrogels for Local and Sustained Delivery of RNAâ€Interference Therapies. Advanced Healthcare Materials, 2017, 6, 1601041.	7.6	79
97	Mechanically dynamic PDMS substrates to investigate changing cell environments. Biomaterials, 2017, 145, 23-32.	11.4	68
98	Computational sensitivity investigation of hydrogel injection characteristics for myocardial support. Journal of Biomechanics, 2017, 64, 231-235.	2.1	13
99	Matrix degradability controls multicellularity of 3D cell migration. Nature Communications, 2017, 8, 371.	12.8	192
100	Hydrogels with Reversible Mechanics to Probe Dynamic Cell Microenvironments. Angewandte Chemie - International Edition, 2017, 56, 12132-12136.	13.8	220
101	Hydrogels with Reversible Mechanics to Probe Dynamic Cell Microenvironments. Angewandte Chemie, 2017, 129, 12300-12304.	2.0	19
102	Programmed biomolecule delivery to enable and direct cell migration for connective tissue repair. Nature Communications, 2017, 8, 1780.	12.8	96
103	Methods To Assess Shear-Thinning Hydrogels for Application As Injectable Biomaterials. ACS Biomaterials Science and Engineering, 2017, 3, 3146-3160.	5.2	261
104	Shear-thinning and self-healing hydrogels as injectable therapeutics and for 3D-printing. Nature Protocols, 2017, 12, 1521-1541.	12.0	382
105	EXTH-23. ANTISECRETORY FACTOR-MEDIATED LOWERING OF INTERSTITIAL FLUID PRESSURE PRODUCES ANTI-TUMOR ACTIVITY IN GLIOBLASTOMA. Neuro-Oncology, 2017, 19, vi77-vi77.	1.2	0
106	Sustained miRNA delivery from an injectable hydrogel promotes cardiomyocyte proliferation and functional regeneration after ischaemic injury. Nature Biomedical Engineering, 2017, 1, 983-992.	22.5	184
107	Epicardial YAP/TAZ orchestrate an immunosuppressive response following myocardial infarction. Journal of Clinical Investigation, 2017, 127, 899-911.	8.2	126
108	Hydrogels in Cardiac Tissue Engineering. , 2016, , 323-361.		0

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109	Computational Investigation of Transmural Differences in Left Ventricular Contractility. Journal of Biomechanical Engineering, 2016, 138, .	1.3	10
110	Stiffening hydrogels for investigating the dynamics of hepatic stellate cell mechanotransduction during myofibroblast activation. Scientific Reports, 2016, 6, 21387.	3.3	176
111	Near-infrared light triggered release of molecules from supramolecular hydrogel-nanorod composites. Nanomedicine, 2016, 11, 1579-1590.	3.3	20
112	Effects of using the unloaded configuration in predicting the <i>in vivo</i> diastolic properties of the heart. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1714-1720.	1.6	18
113	Single Cell Imaging to Probe Mesenchymal Stem Cell N-Cadherin Mediated Signaling within Hydrogels. Annals of Biomedical Engineering, 2016, 44, 1921-1930.	2.5	21
114	A practical guide to hydrogels for cell culture. Nature Methods, 2016, 13, 405-414.	19.0	1,348
115	Gradually softening hydrogels for modeling hepatic stellate cell behavior during fibrosis regression. Integrative Biology (United Kingdom), 2016, 8, 720-728.	1.3	72
116	Injectable Shear-Thinning Hydrogels for Minimally Invasive Delivery to Infarcted Myocardium to Limit Left Ventricular Remodeling. Circulation: Cardiovascular Interventions, 2016, 9, .	3.9	98
117	Editorial: Special Issue on 3D Printing of Biomaterials. ACS Biomaterials Science and Engineering, 2016, 2, 1658-1661.	5.2	22
118	3D printing of photocurable poly(glycerol sebacate) elastomers. Biofabrication, 2016, 8, 045004.	7.1	67
119	Injectable and Cytocompatible Tough Doubleâ€Network Hydrogels through Tandem Supramolecular and Covalent Crosslinking. Advanced Materials, 2016, 28, 8419-8424.	21.0	233
120	Evolution of hierarchical porous structures in supramolecular guestâ€“host hydrogels. Soft Matter, 2016, 12, 7839-7847.	2.7	21
121	N-cadherin adhesive interactions modulate matrix mechanosensing and fate commitment of mesenchymal stem cells. Nature Materials, 2016, 15, 1297-1306.	27.5	262
122	Delivery of interleukin-10 via injectable hydrogels improves renal outcomes and reduces systemic inflammation following ischemic acute kidney injury in mice. American Journal of Physiology - Renal Physiology, 2016, 311, F362-F372.	2.7	50
123	Dimensionality and spreading influence MSC YAP/TAZ signaling in hydrogel environments. Biomaterials, 2016, 103, 314-323.	11.4	240
124	3D Printing of Shear-Thinning Hyaluronic Acid Hydrogels with Secondary Cross-Linking. ACS Biomaterials Science and Engineering, 2016, 2, 1743-1751.	5.2	473
125	Biofabrication: reappraising the definition of an evolving field. Biofabrication, 2016, 8, 013001.	7.1	523
126	ACS Biomaterials Science and Engineering, Editorialâ€"First Anniversary. ACS Biomaterials Science and Engineering, 2016, 2, 141-141.	5.2	0

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127	Effects of Mesenchymal Stem Cell and Growth Factor Delivery on Cartilage Repair in a Mini-Pig Model. Cartilage, 2016, 7, 174-184.	2.7	35
128	Recent advances in hyaluronic acid hydrogels for biomedical applications. Current Opinion in Biotechnology, 2016, 40, 35-40.	6.6	441
129	Mimicking the topography of the epidermalâ€“dermal interface with elastomer substrates. Integrative Biology (United Kingdom), 2016, 8, 21-29.	1.3	52
130	To Serve and Protect: Hydrogels to Improve Stem Cell-Based Therapies. Cell Stem Cell, 2016, 18, 13-15.	11.1	158
131	Computational Modeling of Healthy Myocardium in Diastole. Annals of Biomedical Engineering, 2016, 44, 980-992.	2.5	18
132	Local Drug Delivery in the Treatment of Glioblastoma. , 2016, , 207-211.		0
133	Synergistic Effects of SDF-1Î± and BMP-2 Delivery from Proteolytically Degradable Hyaluronic Acid Hydrogels for Bone Repair. Macromolecular Bioscience, 2015, 15, 1218-1223.	4.1	61
134	Direct 3D Printing of Shearâ€Thinning Hydrogels into Selfâ€Healing Hydrogels. Advanced Materials, 2015, 27, 5075-5079.	21.0	831
135	Hydrogels with dynamically tunable properties. , 2015, , 90-109.		1
136	Cartilage Repair and Subchondral Bone Remodeling in Response to Focal Lesions in a Mini-Pig Model: Implications for Tissue Engineering. Tissue Engineering - Part A, 2015, 21, 850-860.	3.1	72
137	Role Played by Prx1â€Dependent Extracellular Matrix Properties in Vascular Smooth Muscle Development in Embryonic Lungs. Pulmonary Circulation, 2015, 5, 382-397.	1.7	16
138	Progress in material design for biomedical applications. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14444-14451.	7.1	201
139	Estimating passive mechanical properties in a myocardial infarction using MRI and finite element simulations. Biomechanics and Modeling in Mechanobiology, 2015, 14, 633-647.	2.8	53
140	Welcome to <i>ACS Biomaterials Science & Engineering</i>. ACS Biomaterials Science and Engineering, 2015, 1, 1-1.	5.2	0
141	Injectable Microsphere Gel Progressively ImprovesÂGlobal Ventricular Function, Regional Contractile Strain, and Mitral Regurgitation AfterÂMyocardial Infarction. Annals of Thoracic Surgery, 2015, 99, 597-603.	1.3	10
142	Nanofibrous Hydrogels with Spatially Patterned Biochemical Signals to Control Cell Behavior. Advanced Materials, 2015, 27, 1356-1362.	21.0	153
143	Shearâ€Thinning Supramolecular Hydrogels with Secondary Autonomous Covalent Crosslinking to Modulate Viscoelastic Properties In Vivo. Advanced Functional Materials, 2015, 25, 636-644.	14.9	278
144	From Repair to Regeneration: Biomaterials to Reprogram the Meniscus Wound Microenvironment. Annals of Biomedical Engineering, 2015, 43, 529-542.	2.5	44

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145	One-Step Generation of Multifunctional Polyelectrolyte Microcapsules <i>via</i> Nanoscale Interfacial Complexation in Emulsion (NICE). ACS Nano, 2015, 9, 8269-8278.	14.6	70
146	Selective Proteolytic Degradation of Guestâ€"Host Assembled, Injectable Hyaluronic Acid Hydrogels. ACS Biomaterials Science and Engineering, 2015, 1, 277-286.	5.2	79
147	Protease-degradable electrospun fibrous hydrogels. Nature Communications, 2015, 6, 6639.	12.8	126
148	Local immunotherapy via delivery of interleukin-10 and transforming growth factor Î² antagonist for treatment of chronic kidney disease. Journal of Controlled Release, 2015, 206, 131-139.	9.9	60
149	Visualization of Injectable Hydrogels Using Chemical Exchange Saturation Transfer MRI. ACS Biomaterials Science and Engineering, 2015, 1, 227-237.	5.2	19
150	Temporal Changes in Infarct Material Properties: An InÂVivo Assessment Using Magnetic Resonance Imaging and Finite Element Simulations. Annals of Thoracic Surgery, 2015, 100, 582-589.	1.3	28
151	Regulation Policy on Tissue Engineering and Regenerative Medicine in Asianâ€"Pacific Region. Tissue Engineering - Part A, 2015, 21, 2779-2780.	3.1	3
152	Injectable shear-thinning hydrogels used to deliver endothelial progenitor cells, enhance cell engraftment, and improve ischemic myocardium. Journal of Thoracic and Cardiovascular Surgery, 2015, 150, 1268-1277.	0.8	113
153	Supramolecular Guestâ€"Host Interactions for the Preparation of Biomedical Materials. Bioconjugate Chemistry, 2015, 26, 2279-2289.	3.6	162
154	Cell-mediated fibre recruitment drives extracellular matrix mechanosensing inÂengineered fibrillar microenvironments. Nature Materials, 2015, 14, 1262-1268.	27.5	464
155	Fibrous Scaffolds with Varied Fiber Chemistry and Growth Factor Delivery Promote Repair in a Porcine Cartilage Defect Model. Tissue Engineering - Part A, 2015, 21, 2680-2690.	3.1	46
156	MRI evaluation of injectable hyaluronic acid-based hydrogel therapy to limit ventricular remodeling after myocardial infarction. Biomaterials, 2015, 69, 65-75.	11.4	91
157	Sustained small molecule delivery from injectable hyaluronic acid hydrogels through hostâ€"guest mediated retention. Journal of Materials Chemistry B, 2015, 3, 8010-8019.	5.8	111
158	Author response: new therapies for reducing post-myocardial left ventricular remodeling. Annals of Translational Medicine, 2015, 3, 146.	1.7	0
159	Emerging Issues in Translating Laboratory Experiments to Applications for Society. Tissue Engineering - Part A, 2014, 20, 2547-2548.	3.1	3
160	A Bioengineered Hydrogel System Enables Targeted and Sustained Intramyocardial Delivery of Neuregulin, Activating the Cardiomyocyte Cell Cycle and Enhancing Ventricular Function in a Murine Model of Ischemic Cardiomyopathy. Circulation: Heart Failure, 2014, 7, 619-626.	3.9	53
161	Jagged1 immobilization to an osteoconductive polymer activates the Notch signaling pathway and induces osteogenesis. Journal of Biomedical Materials Research - Part A, 2014, 102, 1558-1567.	4.0	50
162	Immunotherapy with injectable hydrogels to treat obstructive nephropathy. Journal of Biomedical Materials Research - Part A, 2014, 102, 2173-2180.	4.0	44

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163	Ordered, adherent layers of nanofibers enabled by supramolecular interactions. Journal of Materials Chemistry B, 2014, 2, 8110-8115.	5.8	22
164	Local Hydrogel Release of Recombinant TIMP-3 Attenuates Adverse Left Ventricular Remodeling After Experimental Myocardial Infarction. Science Translational Medicine, 2014, 6, 223ra21.	12.4	94
165	Experimental and Computational Investigation of Altered Mechanical Properties in Myocardium after Hydrogel Injection. Annals of Biomedical Engineering, 2014, 42, 1546-1556.	2.5	44
166	Injectable and bioresponsive hydrogels for on-demand matrix metalloproteinase inhibition. Nature Materials, 2014, 13, 653-661.	27.5	419
167	Hydrogels with differential and patterned mechanics to study stiffness-mediated myofibroblastic differentiation of hepatic stellate cells. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 38, 198-208.	3.1	84
168	Transdermal gelation of methacrylated macromers with near-infrared light and gold nanorods. Nanotechnology, 2014, 25, 014004.	2.6	23
169	Radicals promote magnetic gel assembly. Nature, 2014, 514, 574-575.	27.8	4
170	Advances in nanofibrous scaffolds for biomedical applications: From electrospinning to self-assembly. Nano Today, 2014, 9, 722-742.	11.9	109
171	Targeted Injection of a Biocomposite Material Alters Macrophage and Fibroblast Phenotype and Function following Myocardial Infarction: Relation to Left Ventricular Remodeling. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 701-709.	2.5	24
172	Themed issue on nanoscale biomaterials. Journal of Materials Chemistry B, 2014, 2, 8039-8042.	5.8	0
173	Incorporation of sulfated hyaluronic acid macromers into degradable hydrogel scaffolds for sustained molecule delivery. Biomaterials Science, 2014, 2, 693-702.	5.4	46
174	Stem cellâ€“materials interactions. Biomaterials Science, 2014, 2, 1545-1547.	5.4	2
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