David J Mooney

List of Publications by Year
in descending order

384 papers	81,949 citations	529 127 h-index	410 277 g-index
395 all docs	395 docs citations	395 times ranked	59438 citing authors

#	Article	IF	Citations
1	Immuneâ€responsive biodegradable scaffolds for enhancing neutrophil regeneration. Bioengineering and Translational Medicine, 2023, 8, .	7.1	2
2	Biomaterial vaccines capturing pathogen-associated molecular patterns protect against bacterial infections and septic shock. Nature Biomedical Engineering, 2022, 6, 8-18.	22.5	31
3	Materials for Implantable Surface Electrode Arrays: Current Status and Future Directions. Advanced Materials, 2022, 34, e2107207.	21.0	21
4	Quantifying face mask comfort. Journal of Occupational and Environmental Hygiene, 2022, 19, 23-34.	1.0	6
5	Enhanced tendon healing by a tough hydrogel with an adhesive side and high drug-loading capacity. Nature Biomedical Engineering, 2022, 6, 1167-1179.	22.5	92
6	Cryogel vaccines effectively induce immune responses independent of proximity to the draining lymph nodes. Biomaterials, 2022, 281, 121329.	11.4	13
7	Scaffold Vaccines for Generating Robust and Tunable Antibody Responses. Advanced Functional Materials, 2022, 32, .	14.9	9
8	Recent and Future Strategies of Mechanotherapy for Tissue Regenerative Rehabilitation. ACS Biomaterials Science and Engineering, 2022, 8, 4639-4642.	5.2	9
9	Antiplatelet therapy for Staphylococcus aureus bacteremia: Will it stick?. PLoS Pathogens, 2022, 18, e1010240.	4.7	2
10	Aging and matrix viscoelasticity affect multiscale tendon properties and tendon derived cell behavior. Acta Biomaterialia, 2022, 143, 63-71.	8.3	16
11	Development of a liposomal near-infrared fluorescence lactate assay for human blood. Biomaterials, 2022, 283, 121475.	11.4	6
12	Actuated 3D microgels for single cell mechanobiology. Lab on A Chip, 2022, 22, 1962-1970.	6.0	7
13	Viscoelastic Biomaterials for Tissue Regeneration. Tissue Engineering - Part C: Methods, 2022, 28, 289-300.	2.1	19
14	Nanoparticle Properties Influence Transendothelial Migration of Monocytes. Langmuir, 2022, 38, 5603-5616.	3.5	5
15	Targeting tumor extracellular matrix activates the tumor-draining lymph nodes. Cancer Immunology, Immunotherapy, 2022, 71, 2957-2968.	4.2	6
16	A vaccine targeting resistant tumours by dual T cell plus NK cell attack. Nature, 2022, 606, 992-998.	27.8	65
17	Development of a physiological insulin resistance model in human stem cellâ€“derived adipocytes. Science Advances, 2022, 8, .	10.3	10
18	STING activation promotes robust immune response and NK cellâ€“mediated tumor regression in glioblastoma models. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	44

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19	Mechanical checkpoint regulates monocyte differentiation in fibrotic niches. Nature Materials, 2022, 21, 939-950.	27.5	22
20	A Novel Three-Dimensional Skin Disease Model to Assess Macrophage Function in Diabetes. Tissue Engineering - Part C: Methods, 2021, 27, 49-58.	2.1	16
21	A novel two-component, expandable bioadhesive for exposed defect coverage: Applicability to prenatal procedures. Journal of Pediatric Surgery, 2021, 56, 165-169.	1.6	11
22	Active biomaterials for mechanobiology. Biomaterials, 2021, 267, 120497.	11.4	60
23	Generation of the Compression-induced Dedifferentiated Adipocytes (CiDAs) Using Hypertonic Medium. Bio-protocol, 2021, 11, e3920.	0.4	3
24	Abstract PO085: Cryogel-based cancer vaccine to treat acute myeloid leukemia. Cancer Immunology Research, 2021, 9, PO085-PO085.	3.4	1
25	Advanced bandages for diabetic wound healing. Science Translational Medicine, 2021, 13, .	12.4	181
26	Degradable and Removable Tough Adhesive Hydrogels. Advanced Materials, 2021, 33, e2008553.	21.0	99
27	Viscoelastic surface electrode arrays to interface with viscoelastic tissues. Nature Nanotechnology, 2021, 16, 1019-1029.	31.5	144
28	Anti-inflammatory nanoparticles significantly improve muscle function in a murine model of advanced muscular dystrophy. Science Advances, 2021, 7, .	10.3	28
29	Obstacles and opportunities in a forward vision for cancer nanomedicine. Nature Materials, 2021, 20, 1469-1479.	27.5	206
30	Risk quantification for SARS-CoV-2 infection through airborne transmission in university settings. Journal of Occupational and Environmental Hygiene, 2021, 18, 590-603.	1.0	6
31	Delivery of Thrombospondin-2 Small Interfering RNA for Suppression of Intimal Hyperplasia. Journal of Vascular Surgery, 2021, 74, e297.	1.1	0
32	Polymeric Tissue Adhesives. Chemical Reviews, 2021, 121, 11336-11384.	47.7	306
33	Skeletal muscle regeneration with robotic actuationâ€“mediated clearance of neutrophils. Science Translational Medicine, 2021, 13, eabe8868.	12.4	42
34	A Modular Biomaterial Scaffoldâ€Based Vaccine Elicits Durable Adaptive Immunity to Subunit SARSâ€CoVâ€2 Antigens. Advanced Healthcare Materials, 2021, 10, e2101370.	7.6	10
35	Ultrasound-triggered release reveals optimal timing of CpG-ODN delivery from a cryogel cancer vaccine. Biomaterials, 2021, 279, 121240.	11.4	16
36	EXTH-81. STING ACTIVATION PROMOTES ROBUST IMMUNE RESPONSE AND TUMOR REGRESSION IN GLIOBLASTOMA MODELS. Neuro-Oncology, 2021, 23, vi182-vi182.	1.2	0

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37	Mechanical Checkpoint Regulates Monocyte Differentiation in Fibrotic Matrix. Blood, 2021, 138, 2539-2539.	1.4	5
38	Topical Application of a Mast Cell Stabilizer Improves Impaired Diabetic Wound Healing. Journal of Investigative Dermatology, 2020, 140, 901-911.e11.	0.7	58
39	Immediate Treatment of Burn Wounds with High Concentrations of Topical Antibiotics in an Alginate Hydrogel Using a Platform Wound Device. Advances in Wound Care, 2020, 9, 48-60.	5.1	36
40	Clickable, acid labile immunosuppressive prodrugs forin vivotargeting. Biomaterials Science, 2020, 8, 266-277.	5.4	16
41	Niche-mimicking interactions in peptide-functionalized 3D hydrogels amplify mesenchymal stromal cell paracrine effects. Biomaterials, 2020, 230, 119639.	11.4	43
42	Engineered tissues and strategies to overcome challenges in drug development. Advanced Drug Delivery Reviews, 2020, 158, 116-139.	13.7	26
43	Extracellular matrix plasticity as a driver of cell spreading. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25999-26007.	7.1	65
44	Singleâ€Shot Mesoporous Silica Rods Scaffold for Induction of Humoral Responses Against Small Antigens. Advanced Functional Materials, 2020, 30, 2002448.	14.9	31
45	Metabolic glycan labelling for cancer-targeted therapy. Nature Chemistry, 2020, 12, 1102-1114.	13.6	101
46	Biomaterial-based scaffold for in situ chemo-immunotherapy to treat poorly immunogenic tumors. Nature Communications, 2020, 11, 5696.	12.8	99
47	Dual alginate crosslinking for local patterning of biophysical and biochemical properties. Acta Biomaterialia, 2020, 115, 185-196.	8.3	15
48	Multifunctional biomimetic hydrogel systems to boost the immunomodulatory potential of mesenchymal stromal cells. Biomaterials, 2020, 257, 120266.	11.4	44
49	Cell and tissue engineering in lymph nodes for cancer immunotherapy. Advanced Drug Delivery Reviews, 2020, 161-162, 42-62.	13.7	43
50	Biomaterials as Local Niches for Immunomodulation. Accounts of Chemical Research, 2020, 53, 1749-1760.	15.6	73
51	3D encapsulation and inflammatory licensing of mesenchymal stromal cells alter the expression of common reference genes used in real-time RT-qPCR. Biomaterials Science, 2020, 8, 6741-6753.	5.4	4
52	Effects of extracellular matrix viscoelasticity on cellular behaviour. Nature, 2020, 584, 535-546.	27.8	1,045
53	Steroidâ€“Peptide Immunoconjugates for Attenuating T Cell Responses in an Experimental Autoimmune Encephalomyelitis Murine Model of Multiple Sclerosis. Bioconjugate Chemistry, 2020, 31, 2779-2788.	3.6	5
54	Metabolic labeling and targeted modulation of dendritic cells. Nature Materials, 2020, 19, 1244-1252.	27.5	99

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55	Extracellular matrix mechanics regulate transfection and SOX9-directed differentiation of mesenchymal stem cells. Acta Biomaterialia, 2020, 110, 153-163.	8.3	36
56	Tuning cytokines enriches dendritic cells and regulatory T cells inÂthe periodontium. Journal of Periodontology, 2020, 91, 1475-1485.	3.4	13
57	Biomaterials Functionalized with MSC Secreted Extracellular Vesicles and Soluble Factors for Tissue Regeneration. Advanced Functional Materials, 2020, 30, 1909125.	14.9	204
58	Alginate Hydrogels for In Vivo Bone Regeneration: The Immune Competence of the Animal Model Matters. Tissue Engineering - Part A, 2020, 26, 852-862.	3.1	24
59	Regenerating Antithrombotic Surfaces through Nucleic Acid Displacement. ACS Biomaterials Science and Engineering, 2020, 6, 2159-2166.	5.2	2
60	Filmed over with CAR-T cells. Nature Biomedical Engineering, 2020, 4, 142-143.	22.5	2
61	Activation and expansion of human T cells using artificial antigen-presenting cell scaffolds. Nature Protocols, 2020, 15, 773-798.	12.0	42
62	Compression-induced dedifferentiation of adipocytes promotes tumor progression. Science Advances, 2020, 6, eaax5611.	10.3	53
63	A biomaterial-based vaccine eliciting durable tumour-specific responses against acute myeloid leukaemia. Nature Biomedical Engineering, 2020, 4, 40-51.	22.5	83
64	Soft extracellular matrix enhances inflammatory activation of mesenchymal stromal cells to induce monocyte production and trafficking. Science Advances, 2020, 6, eaaw0158.	10.3	73
65	A nanoparticleâ€™s pathway into tumours. Nature Materials, 2020, 19, 486-487.	27.5	117
66	Nearâ€Infrared Fluorescence Hydrogen Peroxide Assay for Versatile Metabolite Biosensing in Whole Blood. Small, 2020, 16, e2000369.	10.0	12
67	Differentiation of diabetic foot ulcerâ€“derived induced pluripotent stem cells reveals distinct cellular and tissue phenotypes. FASEB Journal, 2019, 33, 1262-1277.	0.5	39
68	Treating ischemia via recruitment of antigen-specific T cells. Science Advances, 2019, 5, eaav6313.	10.3	26
69	Programmable microencapsulation for enhanced mesenchymal stem cell persistence and immunomodulation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15392-15397.	7.1	124
70	Bioinspired mechanically active adhesive dressings to accelerate wound closure. Science Advances, 2019, 5, eaaw3963.	10.3	337
71	Antibiotic-Containing Agarose Hydrogel for Wound and Burn Care. Journal of Burn Care and Research, 2019, 40, 900-906.	0.4	44
72	Enzymatically-degradable alginate hydrogels promote cell spreading and in vivo tissue infiltration. Biomaterials, 2019, 217, 119294.	11.4	95

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73	Acetalated Dextran Nanoparticles Loaded into an Injectable Alginate Cryogel for Combined Chemotherapy and Cancer Vaccination. Advanced Functional Materials, 2019, 29, 1903686.	14.9	41
74	Combined delivery of VEGF and IGF-1 promotes functional innervation in mice and improves muscle transplantation in rabbits. Biomaterials, 2019, 216, 119246.	11.4	38
75	Design Molecular Topology for Wetâ€“Dry Adhesion. ACS Applied Materials & Interfaces, 2019, 11, 24802-24811.	8.0	76
76	Multi-flow channel bioreactor enables real-time monitoring of cellular dynamics in 3D engineered tissue. Communications Biology, 2019, 2, 158.	4.4	17
77	Macroscale biomaterials strategies for local immunomodulation. Nature Reviews Materials, 2019, 4, 379-397.	48.7	172
78	Biomaterials to Mimic and Heal Connective Tissues. Advanced Materials, 2019, 31, e1806695.	21.0	131
79	Modular soft robotic microdevices for dexterous biomanipulation. Lab on A Chip, 2019, 19, 778-788.	6.0	27
80	An injectable bone marrowâ€“like scaffold enhances T cell immunity after hematopoietic stem cell transplantation. Nature Biotechnology, 2019, 37, 293-302.	17.5	79
81	Anti-tumor immunity induced by ectopic expression of viral antigens is transient and limited by immune escape. OncoImmunology, 2019, 8, e1568809.	4.6	22
82	Sequential modes of crosslinking tune viscoelasticity of cell-instructive hydrogels. Biomaterials, 2019, 188, 187-197.	11.4	91
83	Delivery of targeted gene therapies using a hybrid cryogel-coated prosthetic vascular graft. PeerJ, 2019, 7, e7377.	2.0	5
84	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie - International Edition, 2018, 57, 4652-4656.	13.8	28
85	A Ligand System for the Flexible Functionalization of Quantum Dots via Click Chemistry. Angewandte Chemie, 2018, 130, 4742-4746.	2.0	7
86	A facile approach to enhance antigen response for personalized cancer vaccination. Nature Materials, 2018, 17, 528-534.	27.5	313
87	FGF2 Enhances Odontoblast Differentiation by Î±SMA+ Progenitors In Vivo. Journal of Dental Research, 2018, 97, 1170-1177.	5.2	19
88	Tough Composite Hydrogels with High Loading and Local Release of Biological Drugs. Advanced Healthcare Materials, 2018, 7, e1701393.	7.6	52
89	Improved magnetic regulation of delivery profiles from ferrogels. Biomaterials, 2018, 161, 179-189.	11.4	47
90	Physical Polyurethane Hydrogels via Charge Shielding through Acids or Salts. Macromolecular Rapid Communications, 2018, 39, e1700711.	3.9	4

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91	Injectable, Tough Alginate Cryogels as Cancer Vaccines. Advanced Healthcare Materials, 2018, 7, e1701469.	7.6	96
92	Microfluidic Templated Multicompartment Microgels for 3D Encapsulation and Pairing of Single Cells. Small, 2018, 14, 1702955.	10.0	118
93	Scaffolds that mimic antigen-presenting cells enable ex vivo expansion of primary T cells. Nature Biotechnology, 2018, 36, 160-169.	17.5	271
94	Covalent Conjugation of Peptide Antigen to Mesoporous Silica Rods to Enhance Cellular Responses. Bioconjugate Chemistry, 2018, 29, 733-741.	3.6	25
95	Replenishable drug depot to combat post-resection cancer recurrence. Biomaterials, 2018, 178, 373-382.	11.4	40
96	Matrix stiffness and tumor-associated macrophages modulate epithelial to mesenchymal transition of human adenocarcinoma cells. Biofabrication, 2018, 10, 035004.	7.1	63
97	Flow-Induced Vascular Network Formation and Maturation in Three-Dimensional Engineered Tissue. ACS Biomaterials Science and Engineering, 2018, 4, 1265-1271.	5.2	31
98	Synthetic Lightâ€Curable Polymeric Materials Provide a Supportive Niche for Dental Pulp Stem Cells. Advanced Materials, 2018, 30, 1704486.	21.0	35
99	Injectable nanocomposite cryogels for versatile protein drug delivery. Acta Biomaterialia, 2018, 65, 36-43.	8.3	134
100	Evaluation of a bioengineered construct for tissue engineering applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2345-2354.	3.4	12
101	Functional muscle recovery with nanoparticle-directed M2 macrophage polarization in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10648-10653.	7.1	112
102	Force Control of Textile-Based Soft Wearable Robots for Mechanotherapy. , 2018, , .		21
103	Towards Alternative Approaches for Coupling of a Soft Robotic Sleeve to the Heart. Annals of Biomedical Engineering, 2018, 46, 1534-1547.	2.5	31
104	RNA-seq reveals diverse effects of substrate stiffness on mesenchymal stem cells. Biomaterials, 2018, 181, 182-188.	11.4	64
105	Hydrolytically-degradable click-crosslinked alginate hydrogels. Biomaterials, 2018, 181, 189-198.	11.4	79
106	Targeting DEC-205â˜DCIR2+ dendritic cells promotes immunological tolerance in proteolipid protein-induced experimental autoimmune encephalomyelitis. Molecular Medicine, 2018, 24, 17.	4.4	32
107	Material microenvironmental properties couple to induce distinct transcriptional programs in mammalian stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8368-E8377.	7.1	93
108	Biomaterial-assisted targeted modulation of immune cells in cancer treatment. Nature Materials, 2018, 17, 761-772.	27.5	352

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109	CD4 T-cells regulate angiogenesis and myogenesis. Biomaterials, 2018, 178, 109-121.	11.4	43
110	Sustained release of targeted cardiac therapy with a replenishable implanted epicardial reservoir. Nature Biomedical Engineering, 2018, 2, 416-428.	22.5	70
111	Soft robotic sleeve supports heart function. Science Translational Medicine, 2017, 9, .	12.4	280
112	Liposomal Delivery Enhances Immune Activation by STING Agonists for Cancer Immunotherapy. Advanced Biology, 2017, 1, 1600013.	3.0	175
113	Multicomponent Injectable Hydrogels for Antigenâ€Specific Tolerogenic Immune Modulation. Advanced Healthcare Materials, 2017, 6, 1600773.	7.6	79
114	Single cell-laden protease-sensitive microniches for long-term culture in 3D. Lab on A Chip, 2017, 17, 727-737.	6.0	43
115	In Vivo Enrichment of Diabetogenic T Cells. Diabetes, 2017, 66, 2220-2229.	0.6	23
116	Biomaterials that promote cell-cell interactions enhance the paracrine function of MSCs. Biomaterials, 2017, 140, 103-114.	11.4	220
117	Emerging Trends in Micro- and Nanoscale Technologies in Medicine: From Basic Discoveries to Translation. ACS Nano, 2017, 11, 5195-5214.	14.6	104
118	Substrate Stressâ€Relaxation Regulates Scaffold Remodeling and Bone Formation In Vivo. Advanced Healthcare Materials, 2017, 6, 1601185.	7.6	104
119	Mechanical confinement regulates cartilage matrix formation by chondrocytes. Nature Materials, 2017, 16, 1243-1251.	27.5	348
120	Cell volume change through water efflux impacts cell stiffness and stem cell fate. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8618-E8627.	7.1	362
121	Hydrogel substrate stress-relaxation regulates the spreading and proliferation of mouse myoblasts. Acta Biomaterialia, 2017, 62, 82-90.	8.3	120
122	In-situ tissue regeneration through SDF-1Î± driven cell recruitment and stiffness-mediated bone regeneration in a critical-sized segmental femoral defect. Acta Biomaterialia, 2017, 60, 50-63.	8.3	62
123	Timed Delivery of Therapy Enhances Functional Muscle Regeneration. Advanced Healthcare Materials, 2017, 6, 1700202.	7.6	6
124	Tough adhesives for diverse wet surfaces. Science, 2017, 357, 378-381.	12.6	1,068
125	Leveraging advances in biology to design biomaterials. Nature Materials, 2017, 16, 1178-1185.	27.5	97
126	Mechanical forces direct stem cell behaviour in development and regeneration. Nature Reviews Molecular Cell Biology, 2017, 18, 728-742.	37.0	1,042

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127	Biomaterials for skeletal muscle tissue engineering. Current Opinion in Biotechnology, 2017, 47, 16-22.	6.6	150
128	Deterministic encapsulation of single cells in thin tunable microgels for niche modelling and therapeutic delivery. Nature Materials, 2017, 16, 236-243.	27.5	286
129	Cell Microencapsulation by Droplet Microfluidic Templating. Macromolecular Chemistry and Physics, 2017, 218, 1600380.	2.2	36
130	Injectable Shape-Memorizing Three-Dimensional Hyaluronic Acid Cryogels for Skin Sculpting and Soft Tissue Reconstruction. Tissue Engineering - Part A, 2017, 23, 243-251.	3.1	28
131	Label-free bacterial detection using polydiacetylene liposomes. Chemical Communications, 2016, 52, 10346-10349.	4.1	46
132	Altered ECM deposition by diabetic foot ulcerâ€derived fibroblasts implicates fibronectin in chronic wound repair. Wound Repair and Regeneration, 2016, 24, 630-643.	3.0	77
133	Clickâ€Crosslinked Injectable Gelatin Hydrogels. Advanced Healthcare Materials, 2016, 5, 541-547.	7.6	129
134	Hydrogels in Vascular Tissue Engineering. , 2016, , 385-396.		0
135	CD44 alternative splicing in gastric cancer cells is regulated by culture dimensionality and matrix stiffness. Biomaterials, 2016, 98, 152-162.	11.4	34
136	Effects of substrate stiffness and cell-cell contact on mesenchymal stem cell differentiation. Biomaterials, 2016, 98, 184-191.	11.4	205
137	Synthetic niche to modulate regenerative potential of MSCs and enhance skeletal muscle regeneration. Biomaterials, 2016, 99, 95-108.	11.4	87
138	Oneâ€Step Microfluidic Fabrication of Polyelectrolyte Microcapsules in Aqueous Conditions for Protein Release. Angewandte Chemie - International Edition, 2016, 55, 13470-13474.	13.8	90
139	Oneâ€Step Microfluidic Fabrication of Polyelectrolyte Microcapsules in Aqueous Conditions for Protein Release. Angewandte Chemie, 2016, 128, 13668-13672.	2.0	33
140	Extracellular matrix stiffness causes systematic variations in proliferation and chemosensitivity in myeloid leukemias. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12126-12131.	7.1	119
141	Designing hydrogels for controlled drug delivery. Nature Reviews Materials, 2016, 1, .	48.7	2,817
142	Vasculogenic dynamics in 3D engineered tissue constructs. Scientific Reports, 2016, 5, 17840.	3.3	51
143	Adjuvantâ€Loaded Subcellular Vesicles Derived From Disrupted Cancer Cells for Cancer Vaccination. Small, 2016, 12, 2321-2333.	10.0	39
144	Generation of Induced Pluripotent Stem Cells from Diabetic Foot Ulcer Fibroblasts Using a Nonintegrative Sendai Virus. Cellular Reprogramming, 2016, 18, 214-223.	0.9	28

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145	Biologic-free mechanically induced muscle regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1534-1539.	7.1	142
146	The effect of surface modification of mesoporous silica micro-rod scaffold on immune cell activation and infiltration. Biomaterials, 2016, 83, 249-256.	11.4	85
147	One-step generation of cell-laden microgels using double emulsion drops with a sacrificial ultra-thin oil shell. Lab on A Chip, 2016, 16, 1549-1555.	6.0	119
148	Biomaterials for enhancing anti-cancer immunity. Current Opinion in Biotechnology, 2016, 40, 1-8.	6.6	115
149	Reprogrammed Stomach Tissue as a Renewable Source of Functional Î² Cells for Blood Glucose Regulation. Cell Stem Cell, 2016, 18, 410-421.	11.1	119
150	Morphogenesis of 3D vascular networks is regulated by tensile forces. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3215-3220.	7.1	81
151	Advances in Therapeutic Cancer Vaccines. Advances in Immunology, 2016, 130, 191-249.	2.2	88
152	Biomaterials and emerging anticancer therapeutics: engineering the microenvironment. Nature Reviews Cancer, 2016, 16, 56-66.	28.4	341
153	Vaccines Combined with Immune Checkpoint Antibodies Promote Cytotoxic T-cell Activity and Tumor Eradication. Cancer Immunology Research, 2016, 4, 95-100.	3.4	124
154	Improving Stem Cell Therapeutics with Mechanobiology. Cell Stem Cell, 2016, 18, 16-19.	11.1	30
155	Hydrogels with tunable stress relaxation regulate stem cell fate and activity. Nature Materials, 2016, 15, 326-334.	27.5	1,650
156	Sequential release of nanoparticle payloads from ultrasonically burstable capsules. Biomaterials, 2016, 75, 91-101.	11.4	45
157	Abstract 117: Development of a Hybrid Cryogel-coated Prosthetic Vascular Graft for Delivery of Targeted Gene Therapies. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	2.4	0
158	Switchable Release of Entrapped Nanoparticles from Alginate Hydrogels. Advanced Healthcare Materials, 2015, 4, 1634-1639.	7.6	50
159	Microfluidic Generation of Monodisperse, Structurally Homogeneous Alginate Microgels for Cell Encapsulation and 3D Cell Culture. Advanced Healthcare Materials, 2015, 4, 1628-1633.	7.6	272
160	Injectable, Poreâ€Forming Hydrogels for In Vivo Enrichment of Immature Dendritic Cells. Advanced Healthcare Materials, 2015, 4, 2677-2687.	7.6	92
161	3D Printed Microtransporters: Compound Micromachines for Spatiotemporally Controlled Delivery of Therapeutic Agents. Advanced Materials, 2015, 27, 6644-6650.	21.0	192
162	The collagen I mimetic peptide <scp>DGEA</scp> enhances an osteogenic phenotype in mesenchymal stem cells when presented from cellâ€encapsulating hydrogels. Journal of Biomedical Materials Research - Part A, 2015, 103, 3516-3525.	4.0	39

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163	Substance P Promotes Wound Healing in Diabetes by Modulating Inflammation and Macrophage Phenotype. American Journal of Pathology, 2015, 185, 1638-1648.	3.8	170
164	Substrate stress relaxation regulates cell spreading. Nature Communications, 2015, 6, 6364.	12.8	637
165	Versatile click alginate hydrogels crosslinked via tetrazineâ€“norbornene chemistry. Biomaterials, 2015, 50, 30-37.	11.4	238
166	In Vivo Targeting through Click Chemistry. ChemMedChem, 2015, 10, 617-620.	3.2	28
167	Alginate and DNA Gels Are Suitable Delivery Systems for Diabetic Wound Healing. International Journal of Lower Extremity Wounds, 2015, 14, 146-153.	1.1	30
168	Engineered materials for cancer immunotherapy. Nano Today, 2015, 10, 511-531.	11.9	96
169	From Skeletal Development to Tissue Engineering: Lessons from the Micromass Assay. Tissue Engineering - Part B: Reviews, 2015, 21, 427-437.	4.8	18
170	Biomaterials based strategies for skeletal muscle tissue engineering: Existing technologies and future trends. Biomaterials, 2015, 53, 502-521.	11.4	347
171	A light-reflecting balloon catheter for atraumatic tissue defect repair. Science Translational Medicine, 2015, 7, 306ra149.	12.4	34
172	On-demand drug delivery from local depots. Journal of Controlled Release, 2015, 219, 8-17.	9.9	123
173	Injectable cryogel-based whole-cell cancer vaccines. Nature Communications, 2015, 6, 7556.	12.8	312
174	Engineered composite fascia for stem cell therapy in tissue repair applications. Acta Biomaterialia, 2015, 26, 1-12.	8.3	23
175	Matrix elasticity of void-forming hydrogels controls transplanted-stem-cell-mediated boneÂformation. Nature Materials, 2015, 14, 1269-1277.	27.5	390
176	Regenerative medicine: Current therapies and future directions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14452-14459.	7.1	651
177	Manipulating the Intersection of Angiogenesis and Inflammation. Annals of Biomedical Engineering, 2015, 43, 628-640.	2.5	27
178	Injectable, spontaneously assembling, inorganic scaffolds modulate immune cells in vivo and increase vaccine efficacy. Nature Biotechnology, 2015, 33, 64-72.	17.5	436
179	The CLEC-2â€“podoplanin axis controls the contractility of fibroblastic reticular cells and lymph node microarchitecture. Nature Immunology, 2015, 16, 75-84.	14.5	233
180	Biomaterial-based delivery for skeletal muscle repair. Advanced Drug Delivery Reviews, 2015, 84, 188-197.	13.7	105

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181	The Effect of Growth-Mimicking Continuous Strain on the Early Stages of Skeletal Development in Micromass Culture. PLoS ONE, 2015, 10, e0124948.	2.5	6
182	Changing the Mindset in Life Sciences Toward Translation: A Consensus. Science Translational Medicine, 2014, 6, 264cm12.	12.4	42
183	Pro-angiogenic factors enhance pericyte function during angiogenesis. , 2014, , .		0
184	Sustained Delivery of VEGF Maintains Innervation and Promotes Reperfusion in Ischemic Skeletal Muscles Via NGF/GDNF Signaling. Molecular Therapy, 2014, 22, 1243-1253.	8.2	77
185	Self-folding mobile microrobots for biomedical applications. , 2014, , .		15
186	Targeted Delivery: An Integrated Microrobotic Platform for On-Demand, Targeted Therapeutic Interventions (Adv. Mater. 6/2014). Advanced Materials, 2014, 26, 951-951.	21.0	3
187	Photoactivation of Endogenous Latent Transforming Growth Factorâ€"Î²1 Directs Dental Stem Cell Differentiation for Regeneration. Science Translational Medicine, 2014, 6, 238ra69.	12.4	206
188	Hydrogel-based system for mesenchymal stem cell recruitment. , 2014, , .		0
189	Rapid and Extensive Collapse from Electrically Responsive Macroporous Hydrogels. Advanced Healthcare Materials, 2014, 3, 500-507.	7.6	40
190	Injectable, porous, and cell-responsive gelatin cryogels. Biomaterials, 2014, 35, 2477-2487.	11.4	266
191	Minimally Invasive Approach to the Repair of Injured Skeletal Muscle With a Shape-memory Scaffold. Molecular Therapy, 2014, 22, 1441-1449.	8.2	78
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