

Liming Bian

List of Publications by Year in Descending Order

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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.

145
papers

6,475
citations

42
h-index

75
g-index

153
ext. papers

8,417
ext. citations

11.5
avg, IF

6.26
L-index

#	Paper	IF	Citations
145	Bisphosphonate-based hydrogel mediates biomimetic negative feedback regulation of osteoclastic activity to promote bone regeneration.. <i>Bioactive Materials</i> , 2022 , 13, 9-22	16.7	2
144	Ultrasound-Responsive Aqueous Two-Phase Microcapsules for On-Demand Drug Release.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	2
143	The Effect of the Nanoparticle Shape on T Cell Activation.. <i>Small</i> , 2022 , e2107373	11	0
142	Polypeptide coatings on biominerals with superior antimicrobial and antifouling properties inspired by human salivary proteins. <i>Applied Materials Today</i> , 2022 , 27, 101446	6.6	
141	Nanoparticle-assembled bioadhesive coacervate coating with prolonged gastrointestinal retention for inflammatory bowel disease therapy. <i>Nature Communications</i> , 2021 , 12, 7162	17.4	9
140	Biomaterial-mediated presentation of wnt5a mimetic ligands enhances chondrogenesis and metabolism of stem cells by activating non-canonical Wnt signaling.. <i>Biomaterials</i> , 2021 , 281, 121316	15.6	2
139	Cell-adaptable dynamic hydrogel reinforced with stem cells improves the functional repair of spinal cord injury by alleviating neuroinflammation. <i>Biomaterials</i> , 2021 , 279, 121190	15.6	8
138	Injectable chitin hydrogels with self-healing property and biodegradability as stem cell carriers. <i>Carbohydrate Polymers</i> , 2021 , 256, 117574	10.3	16
137	Manipulation of the Nanoscale Presentation of Integrin Ligand Produces Cancer Cells with Enhanced Stemness and Robust Tumorigenicity. <i>Nano Letters</i> , 2021 , 21, 3225-3236	11.5	15
136	Multifunctional Nanoprobe for the Delivery of Therapeutic siRNA and Real-Time Molecular Imaging of Parkinson's Disease Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11609-11620	9.5	3
135	Nanomedicine-Boosting Tumor Immunogenicity for Enhanced Immunotherapy. <i>Advanced Functional Materials</i> , 2021 , 31, 2011171	15.6	20
134	Magnetic Living Hydrogels for Intestinal Localization, Retention, and Diagnosis. <i>Advanced Functional Materials</i> , 2021 , 31, 2010918	15.6	22
133	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. <i>Chemical Reviews</i> , 2021 , 121, 4309-4372	68.1	145
132	Ultrafast self-gelling powder mediates robust wet adhesion to promote healing of gastrointestinal perforations. <i>Science Advances</i> , 2021 , 7,	14.3	26
131	Ultrafast Self-Gelling and Wet Adhesive Powder for Acute Hemostasis and Wound Healing. <i>Advanced Functional Materials</i> , 2021 , 31, 2102583	15.6	24
130	Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. <i>Chemical Reviews</i> , 2021 , 121, 11149-11193	68.1	30
129	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. <i>Nature Communications</i> , 2021 , 12, 3514	17.4	27

128	Immunoregulation of Macrophages by Controlling Winding and Unwinding of Nanohelical Ligands. <i>Advanced Functional Materials</i> , 2021 , 31, 2103409	15.6	10
127	An Innovative Solvent-Responsive Coiling-Expanding Stent. <i>Advanced Materials</i> , 2021 , 33, e2101005	24	4
126	Rationally designed protein cross-linked hydrogel for bone regeneration via synergistic release of magnesium and zinc ions. <i>Biomaterials</i> , 2021 , 274, 120895	15.6	13
125	Electrical bioadhesive interface for bioelectronics. <i>Nature Materials</i> , 2021 , 20, 229-236	27	136
124	Dynamic cell-adaptable hydrogels with a moderate level of elasticity promote 3D development of encapsulated cells. <i>Applied Materials Today</i> , 2021 , 22, 100892	6.6	5
123	Surface decoration of development-inspired synthetic N-cadherin motif via Ac-BP promotes osseointegration of metal implants. <i>Bioactive Materials</i> , 2021 , 6, 1353-1364	16.7	5
122	3D printed gelatin/hydroxyapatite scaffolds for stem cell chondrogenic differentiation and articular cartilage repair. <i>Biomaterials Science</i> , 2021 , 9, 2620-2630	7.4	24
121	IFN- γ /SrBG composite scaffolds promote osteogenesis by sequential regulation of macrophages from M1 to M2. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1867-1876	7.3	9
120	Microscopic local stiffening in a supramolecular hydrogel network expedites stem cell mechanosensing in 3D and bone regeneration. <i>Materials Horizons</i> , 2021 , 8, 1722-1734	14.4	23
119	Engineering Photoresponsive Ligand Tethers for Mechanical Regulation of Stem Cells. <i>Advanced Materials</i> , 2021 , 33, e2105765	24	8
118	Nanoparticle-Assembled Vacuolated Coacervates Control Macromolecule Spatiotemporal Distribution to Provide a Stable Segregated Cell Microenvironment. <i>Advanced Materials</i> , 2021 , 33, e2007209	24	4
117	Biomaterial-Mediated Presentation of Jagged-1 Mimetic Ligand Enhances Cellular Activation of Notch Signaling and Bone Regeneration.. <i>ACS Nano</i> , 2021 ,	16.7	2
116	Mussel cuticle-mimetic ultra-tough, self-healing elastomers with double-locked nanodomains exhibit fast stimuli-responsive shape transformation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12463-12471	13	11
115	Bisphosphonate-based nanocomposite hydrogels for biomedical applications. <i>Bioactive Materials</i> , 2020 , 5, 819-831	16.7	23
114	Instant tough bioadhesive with triggerable benign detachment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15497-15503	11.5	91
113	Biomimetic Presentation of Cryptic Ligands Single-Chain Nanogels for Synergistic Regulation of Stem Cells. <i>ACS Nano</i> , 2020 , 14, 4027-4035	16.7	11
112	Biocompatible cellulose-based supramolecular nanoparticles driven by host-guest interactions for drug delivery. <i>Carbohydrate Polymers</i> , 2020 , 237, 116114	10.3	22
111	Effective Phototheranostics of Brain Tumor Assisted by Near-Infrared-II Light-Responsive Semiconducting Polymer Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33492-33499	9.5	57

110	Long-Term Detection of Oncogenic MicroRNA in Living Human Cancer Cells by Gold@Polydopamine-Shell Nanoprobe. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3778-3783	5.5	6
109	Organic semiconducting polymer amphiphile for near-infrared-II light-triggered phototheranostics. <i>Biomaterials</i> , 2020 , 232, 119684	15.6	59
108	Desuccinylation-Triggered Peptide Self-Assembly: Live Cell Imaging of SIRT5 Activity and Mitochondrial Activity Modulation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18150-18159	16.4	34
107	Injectable supramolecular gelatin hydrogel loading of resveratrol and histatin-1 for burn wound therapy. <i>Biomaterials Science</i> , 2020 , 8, 4810-4820	7.4	20
106	Phytantriol-Based Cubosome Formulation as an Antimicrobial against Lipopolysaccharide-Deficient Gram-Negative Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44485-44498	9.5	6
105	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	74
104	Achieving coalesced breathability, mechanical and shape memory properties of collagen fibrous matrix through complexing with chromium (III). <i>Materials and Design</i> , 2020 , 186, 108206	8.1	2
103	Soft Polymeric Matrix as a Macroscopic Cage for Magnetically Modulating Reversible Nanoscale Ligand Presentation. <i>Nano Letters</i> , 2020 , 20, 3207-3216	11.5	19
102	Rapid and room temperature detection of single nucleotide variation with enhanced discrimination by crowding assisted allele specific extension. <i>Chemical Communications</i> , 2019 , 55, 12052-12055	5.8	1
101	Functionalization of SF/HAP Scaffold with GO-PEI-miRNA inhibitor Complexes to Enhance Bone Regeneration through Activating Transcription Factor 4. <i>Theranostics</i> , 2019 , 9, 4525-4541	12.1	21
100	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019 , 10, 2705	17.4	37
99	Efficient catechol functionalization of biopolymeric hydrogels for effective multiscale bioadhesion. <i>Materials Science and Engineering C</i> , 2019 , 103, 109835	8.3	16
98	Injectable biomaterials for translational medicine. <i>Materials Today</i> , 2019 , 28, 81-97	21.8	42
97	Injectable stem cell-laden supramolecular hydrogels enhance in situ osteochondral regeneration via the sustained co-delivery of hydrophilic and hydrophobic chondrogenic molecules. <i>Biomaterials</i> , 2019 , 210, 51-61	15.6	108
96	Highly Dynamic Nanocomposite Hydrogels Self-Assembled by Metal Ion-Ligand Coordination. <i>Small</i> , 2019 , 15, e1900242	11	23
95	Immunoregulation of macrophages by dynamic ligand presentation via ligand-cation coordination. <i>Nature Communications</i> , 2019 , 10, 1696	17.4	58
94	A skin inspired bio-smart composite with water responsive shape memory ability. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1128-1138	7.8	16
93	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Stone-Two-Bird Postgelation Functionalization Method. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16328-16335	9.5	15

92	Magnetic Enhancement of Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2200-2207	5.5	16
91	Anisotropic Ligand Nanogeometry Modulates the Adhesion and Polarization State of Macrophages. <i>Nano Letters</i> , 2019 , 19, 1963-1975	11.5	32
90	Hierarchical Porous Poly(l-lactic acid) Nanofibrous Membrane for Ultrafine Particulate Aerosol Filtration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46261-46268	9.5	38
89	Intrapulmonary Cellular-Level Distribution of Inhaled Nanoparticles with Defined Functional Groups and Its Correlations with Protein Corona and Inflammatory Response. <i>ACS Nano</i> , 2019 , 13, 14048-14069 ^{16,7,21}	16.7	31
88	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. <i>Science Advances</i> , 2019 , 5, eaaw3896	14.3	40
87	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019 , 15, 242-251	6.6	28
86	Dynamic and Cell-Infiltratable Hydrogels as Injectable Carrier of Therapeutic Cells and Drugs for Treating Challenging Bone Defects. <i>ACS Central Science</i> , 2019 , 5, 440-450	16.8	112
85	Cross-Linked Cellulose Membranes with Robust Mechanical Property, Self-Adaptive Breathability, and Excellent Biocompatibility. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19799-19806	8.3	12
84	Seco-4-methyl-DCK derivatives as potent chemosensitizers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 28-31	2.9	2
83	Anisotropic Nanoscale Presentation of Cell Adhesion Ligand Enhances the Recruitment of Diverse Integrins in Adhesion Structures and Mechanosensing-Dependent Differentiation of Stem Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1806822	15.6	26
82	Citrate-based fluorophores in polymeric matrix by easy and green in situ synthesis for full-band UV shielding and emissive transparent display. <i>Journal of Materials Science</i> , 2019 , 54, 1236-1247	4.3	8
81	Manipulating the mechanical properties of biomimetic hydrogels with multivalent host-guest interactions. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1726-1733	7.3	7
80	Photocontrolled siRNA Delivery and Biomarker-Triggered Luminogens of Aggregation-Induced Emission by Up-Conversion NaYF:YbTm@SiO Nanoparticles for Inducing and Monitoring Stem-Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22074-22084	9.5	29
79	Remote Control of Heterodimeric Magnetic Nanoswitch Regulates the Adhesion and Differentiation of Stem Cells. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5909-5913	16.4	50
78	Interventions to improve medication adherence among Chinese patients with hypertension: a systematic review and meta-analysis of randomized controlled trials. <i>International Journal of Pharmacy Practice</i> , 2018 , 26, 291-301	1.7	7
77	Bioadhesive Polymersome for Localized and Sustained Drug Delivery at Pathological Sites with Harsh Enzymatic and Fluidic Environment via Supramolecular Host-Guest Complexation. <i>Small</i> , 2018 , 14, 1702288	11	29
76	One-pot solvent exchange preparation of non-swellable, thermoplastic, stretchable and adhesive supramolecular hydrogels based on dual synergistic physical crosslinking. <i>NPG Asia Materials</i> , 2018 , 10, e455-e455	10.3	39
75	Multiscale reconstruction of a synthetic biomimetic micro-niche for enhancing and monitoring the differentiation of stem cells. <i>Biomaterials</i> , 2018 , 173, 87-99	15.6	10

74	Near-infrared light-controlled regulation of intracellular calcium to modulate macrophage polarization. <i>Biomaterials</i> , 2018 , 178, 681-696	15.6	40
73	Precisely controlled delivery of magnesium ions thru sponge-like monodisperse PLGA/nano-MgO-alginate core-shell microsphere device to enable in-situ bone regeneration. <i>Biomaterials</i> , 2018 , 174, 1-16	15.6	92
72	Supramolecular hydrogels cross-linked by preassembled host-guest PEG cross-linkers resist excessive, ultrafast, and non-resting cyclic compression. <i>NPG Asia Materials</i> , 2018 , 10, 788-799	10.3	37
71	Injectable Nanoreinforced Shape-Memory Hydrogel System for Regenerating Spinal Cord Tissue from Traumatic Injury. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29299-29307	9.5	27
70	Organic Semiconducting Polymer Nanoparticles for Photoacoustic Labeling and Tracking of Stem Cells in the Second Near-Infrared Window. <i>ACS Nano</i> , 2018 , 12, 12201-12211	16.7	94
69	Adaptable Hydrogels Mediate Cofactor-Assisted Activation of Biomarker-Responsive Drug Delivery via Positive Feedback for Enhanced Tissue Regeneration. <i>Advanced Science</i> , 2018 , 5, 1800875	13.6	93
68	An In Situ Reversible Heterodimeric Nanoswitch Controlled by Metal-Ion-Ligand Coordination Regulates the Mechanosensing and Differentiation of Stem Cells. <i>Advanced Materials</i> , 2018 , 30, e1803594	11.4	32
67	Detection of Matrix Metalloproteinase 13 for Monitoring Stem Cell Differentiation and Early Diagnosis of Osteoarthritis by Fluorescent Light-Up Probes with Aggregation-Induced Emission Characteristics. <i>Advanced Biology</i> , 2018 , 2, 1800010	3.5	8
66	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation In Vivo. <i>Advanced Functional Materials</i> , 2018 , 28, 1802642	15.6	48
65	Direct optical micropatterning of poly(dimethylsiloxane) for microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 095011	2	4
64	Magnetic Manipulation of Reversible Nanocaging Controls In Vivo Adhesion and Polarization of Macrophages. <i>ACS Nano</i> , 2018 , 12, 5978-5994	16.7	47
63	Effect of inorganic/organic ratio and chemical coupling on the performance of porous silica/chitosan hybrid scaffolds. <i>Materials Science and Engineering C</i> , 2017 , 70, 969-975	8.3	23
62	Targeted Covalent Inhibition of Grb2-Sos1 Interaction through Proximity-Induced Conjugation in Breast Cancer Cells. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1548-1557	5.6	27
61	Magnetically Tuning Tether Mobility of Integrin Ligand Regulates Adhesion, Spreading, and Differentiation of Stem Cells. <i>Nano Letters</i> , 2017 , 17, 1685-1695	11.5	75
60	A Gold@Polydopamine Core-Shell Nanoprobe for Long-Term Intracellular Detection of MicroRNAs in Differentiating Stem Cells. <i>Methods in Molecular Biology</i> , 2017 , 1570, 155-164	1.4	4
59	Sulfated hyaluronic acid hydrogels with retarded degradation and enhanced growth factor retention promote hMSC chondrogenesis and articular cartilage integrity with reduced hypertrophy. <i>Acta Biomaterialia</i> , 2017 , 53, 329-342	10.8	96
58	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. <i>Biomaterials</i> , 2017 , 149, 12-28	15.6	25
57	Citric Acid/Cysteine-Modified Cellulose-Based Materials: Green Preparation and Their Applications in Anticounterfeiting, Chemical Sensing, and UV Shielding. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 11387-11394	8.3	38

56	Mussel-mimetic hydrogels with defined cross-linkers achieved via controlled catechol dimerization exhibiting tough adhesion for wet biological tissues. <i>Chemical Communications</i> , 2017 , 53, 12000-12003	5.8	53
55	Nanocomposite hydrogels stabilized by self-assembled multivalent bisphosphonate-magnesium nanoparticles mediate sustained release of magnesium ion and promote in-situ bone regeneration. <i>Acta Biomaterialia</i> , 2017 , 64, 389-400	10.8	76
54	Liquid-Solid Dual-Gate Organic Transistors with Tunable Threshold Voltage for Cell Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38687-38694	9.5	32
53	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. <i>Stem Cell Research and Therapy</i> , 2017 , 8, 221	8.3	36
52	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. <i>ACS Nano</i> , 2017 , 11, 9636-9649	16.7	47
51	Self-assembled N-cadherin mimetic peptide hydrogels promote the chondrogenesis of mesenchymal stem cells through inhibition of canonical Wnt/ β -catenin signaling. <i>Biomaterials</i> , 2017 , 145, 33-43	15.6	71
50	Multivalent Host-Guest Hydrogels as Fatigue-Resistant 3D Matrix for Excessive Mechanical Stimulation of Encapsulated Cells. <i>Chemistry of Materials</i> , 2017 , 29, 8604-8610	9.6	37
49	Optical μ -Printing of Cellular-Scale Microscaffold Arrays for 3D Cell Culture. <i>Scientific Reports</i> , 2017 , 7, 8880	4.9	13
48	Remote Manipulation of Ligand Nano-Oscillations Regulates Adhesion and Polarization of Macrophages in Vivo. <i>Nano Letters</i> , 2017 , 17, 6415-6427	11.5	52
47	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg^{2+}) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , 2017 , 27, 1701642	15.6	84
46	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017 , 2,	18.6	393
45	Effect of cartilaginous matrix components on the chondrogenesis and hypertrophy of mesenchymal stem cells in hyaluronic acid hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2292-2300	3.5	30
44	Near-infrared light-triggered release of small molecules for controlled differentiation and long-term tracking of stem cells in vivo using upconversion nanoparticles. <i>Biomaterials</i> , 2016 , 110, 1-10	15.6	59
43	Mechanically resilient, injectable, and bioadhesive supramolecular gelatin hydrogels crosslinked by weak host-guest interactions assist cell infiltration and in situ tissue regeneration. <i>Biomaterials</i> , 2016 , 101, 217-28	15.6	180
42	Robust Biopolymeric Supramolecular Host-Guest Macromer Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016 , 49, 866-875	5.5	82
41	Hydrogels functionalized with N-cadherin mimetic peptide enhance osteogenesis of hMSCs by emulating the osteogenic niche. <i>Biomaterials</i> , 2016 , 77, 44-52	15.6	63
40	Chemical study of the Chinese medicine Pi Han Yao. <i>Biomedical Reports</i> , 2016 , 4, 219-222	1.8	1
39	Nanocarrier-Mediated Codelivery of Small Molecular Drugs and siRNA to Enhance Chondrogenic Differentiation and Suppress Hypertrophy of Human Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2016 , 26, 2463-2472	15.6	37

38	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. <i>Macromolecular Bioscience</i> , 2016 , 16, 1019-26	5.5	22
37	Multifunctional Quantum Dot Nanoparticles for Effective Differentiation and Long-Term Tracking of Human Mesenchymal Stem Cells In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1049-57 ^{10.1}	4.0	40
36	Change in viability of C2C12 myoblasts under compression, shear and oxidative challenges. <i>Journal of Biomechanics</i> , 2016 , 49, 1305-1310	2.9	6
35	Preserving the adhesion of catechol-conjugated hydrogels by thiourea-quinone coupling. <i>Biomaterials Science</i> , 2016 , 4, 1726-1730	7.4	22
34	The effects of oxidative stress on the compressive damage thresholds of C2C12 mouse myoblasts: implications for deep tissue injury. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 287-96	4.7	10
33	One-pot atom-efficient synthesis of bio-renewable polyesters and cyclic carbonates through tandem catalysis. <i>Chemical Communications</i> , 2015 , 51, 8504-7	5.8	24
32	Substrate Coupling Strength of Integrin-Binding Ligands Modulates Adhesion, Spreading, and Differentiation of Human Mesenchymal Stem Cells. <i>Nano Letters</i> , 2015 , 15, 6592-600	11.5	36
31	Magnetite Nanostructured Porous Hollow Helical Microswimmers for Targeted Delivery. <i>Advanced Functional Materials</i> , 2015 , 25, 5333-5342	15.6	167
30	A gold@polydopamine core-shell nanoprobe for long-term intracellular detection of microRNAs in differentiating stem cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7337-46	16.4	164
29	New chemosynthetic route to linear β -poly-lysine. <i>Chemical Science</i> , 2015 , 6, 6385-6391	9.4	31
28	The Role of Mechanical Cues in Regulating Cellular Activities and Guiding Tissue Development 2014 , 45-58		
27	Differential effect of hypoxia on human mesenchymal stem cell chondrogenesis and hypertrophy in hyaluronic acid hydrogels. <i>Acta Biomaterialia</i> , 2014 , 10, 1333-40	10.8	22
26	New bio-renewable polyester with rich side amino groups from L-lysine via controlled ring-opening polymerization. <i>Polymer Chemistry</i> , 2014 , 5, 6495-6502	4.9	38
25	A new strategy to synthesize bottlebrushes with a helical polyglutamate backbone via N-carboxyanhydride polymerization and RAFT. <i>Chemical Communications</i> , 2014 , 50, 14183-6	5.8	18
24	A model for facilitating translational research and development in China: Call for establishing a Hong Kong Branch of the Chinese National Engineering Research Centre for Biomaterials. <i>Journal of Orthopaedic Translation</i> , 2014 , 2, 170-176	4.2	3
23	Cell-mediated degradation regulates human mesenchymal stem cell chondrogenesis and hypertrophy in MMP-sensitive hyaluronic acid hydrogels. <i>PLoS ONE</i> , 2014 , 9, e99587	3.7	47
22	Hydrogels that mimic developmentally relevant matrix and N-cadherin interactions enhance MSC chondrogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10117-22	11.5	282
21	The influence of hyaluronic acid hydrogel crosslinking density and macromolecular diffusivity on human MSC chondrogenesis and hypertrophy. <i>Biomaterials</i> , 2013 , 34, 413-21	15.6	210

20	Isoliquritigenin-induced differentiation in mouse melanoma B16F0 cell line. <i>Oxidative Medicine and Cellular Longevity</i> , 2012 , 2012, 534934	6.7	26
19	Toward engineering a biological joint replacement. <i>Journal of Knee Surgery</i> , 2012 , 25, 187-96	2.4	26
18	Dynamic compressive loading enhances cartilage matrix synthesis and distribution and suppresses hypertrophy in hMSC-laden hyaluronic acid hydrogels. <i>Tissue Engineering - Part A</i> , 2012 , 18, 715-24	3.9	104
17	Coculture of human mesenchymal stem cells and articular chondrocytes reduces hypertrophy and enhances functional properties of engineered cartilage. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1137-45	3.9	197
16	Enhanced MSC chondrogenesis following delivery of TGF- β from alginate microspheres within hyaluronic acid hydrogels in vitro and in vivo. <i>Biomaterials</i> , 2011 , 32, 6425-34	15.6	276
15	Effects of dexamethasone on the functional properties of cartilage explants during long-term culture. <i>American Journal of Sports Medicine</i> , 2010 , 38, 78-85	6.8	33
14	Dynamic mechanical loading enhances functional properties of tissue-engineered cartilage using mature canine chondrocytes. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1781-90	3.9	102
13	Passaged adult chondrocytes can form engineered cartilage with functional mechanical properties: a canine model. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1041-51	3.9	60
12	Functional Tissue Engineering of Articular Cartilage With Adult Chondrocytes 2009 ,		1
11	Influence of temporary chondroitinase ABC-induced glycosaminoglycan suppression on maturation of tissue-engineered cartilage. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2065-72	3.9	45
10	Influence of decreasing nutrient path length on the development of engineered cartilage. <i>Osteoarthritis and Cartilage</i> , 2009 , 17, 677-85	6.2	64
9	Influence of chondroitin sulfate on the biochemical, mechanical and frictional properties of cartilage explants in long-term culture. <i>Journal of Biomechanics</i> , 2009 , 42, 286-90	2.9	14
8	Differences in interleukin-1 response between engineered and native cartilage. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1721-30	3.9	50
7	Mechanical and biochemical characterization of cartilage explants in serum-free culture. <i>Journal of Biomechanics</i> , 2008 , 41, 1153-9	2.9	42
6	Physiologic deformational loading does not counteract the catabolic effects of interleukin-1 in long-term culture of chondrocyte-seeded agarose constructs. <i>Journal of Biomechanics</i> , 2008 , 41, 3253-9	2.9	20
5	The beneficial effect of delayed compressive loading on tissue-engineered cartilage constructs cultured with TGF-beta3. <i>Osteoarthritis and Cartilage</i> , 2007 , 15, 1025-33	6.2	205
4	The effect of applied compressive loading on tissue-engineered cartilage constructs cultured with TGF-beta3. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 779-82		15
3	Ultrasound-Responsive Aqueous Two-Phase Microcapsules for On-Demand Drug Release. <i>Angewandte Chemie</i> ,	3.6	1

2	Adhesive Hemostatic Hydrogel with Ultrafast Gelation Arrests Acute Upper Gastrointestinal Hemorrhage in Pigs. <i>Advanced Functional Materials</i> ,2109332	15.6	5
1	Magnesium-Encapsulated Injectable Hydrogel and 3D-Engineered Polycaprolactone Conduit Facilitate Peripheral Nerve Regeneration. <i>Advanced Science</i> ,2202102	13.6	3