

# Liming Bian

## List of Publications by Citations

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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	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , <b>2017</b> , 2,	18.6	393
144	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> , <b>2013</b> , 110, 10117-22	11.5	282
143	Enhanced MSC chondrogenesis following delivery of TGF- $\beta$ from alginate microspheres within hyaluronic acid hydrogels in vitro and in vivo. <i>Biomaterials</i> , <b>2011</b> , 32, 6425-34	15.6	276
142	The influence of hyaluronic acid hydrogel crosslinking density and macromolecular diffusivity on human MSC chondrogenesis and hypertrophy. <i>Biomaterials</i> , <b>2013</b> , 34, 413-21	15.6	210
141	The beneficial effect of delayed compressive loading on tissue-engineered cartilage constructs cultured with TGF- $\beta$ 3. <i>Osteoarthritis and Cartilage</i> , <b>2007</b> , 15, 1025-33	6.2	205
140	Coculture of human mesenchymal stem cells and articular chondrocytes reduces hypertrophy and enhances functional properties of engineered cartilage. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 1137-45	3.9	197
139	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> , <b>2016</b> , 101, 217-28	15.6	180
138	Magnetite Nanostructured Porous Hollow Helical Microswimmers for Targeted Delivery. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5333-5342	15.6	167
137	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> , <b>2015</b> , 137, 7337-46	16.4	164
136	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. <i>Chemical Reviews</i> , <b>2021</b> , 121, 4309-4372	68.1	145
135	Electrical bioadhesive interface for bioelectronics. <i>Nature Materials</i> , <b>2021</b> , 20, 229-236	27	136
134	Dynamic and Cell-Infiltratable Hydrogels as Injectable Carrier of Therapeutic Cells and Drugs for Treating Challenging Bone Defects. <i>ACS Central Science</i> , <b>2019</b> , 5, 440-450	16.8	112
133	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> , <b>2019</b> , 210, 51-61	15.6	108
132	Dynamic compressive loading enhances cartilage matrix synthesis and distribution and suppresses hypertrophy in hMSC-laden hyaluronic acid hydrogels. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 715-24	3.9	104
131	Dynamic mechanical loading enhances functional properties of tissue-engineered cartilage using mature canine chondrocytes. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 1781-90	3.9	102
130	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> , <b>2017</b> , 53, 329-342	10.8	96
129	Organic Semiconducting Polymer Nanoparticles for Photoacoustic Labeling and Tracking of Stem Cells in the Second Near-Infrared Window. <i>ACS Nano</i> , <b>2018</b> , 12, 12201-12211	16.7	94

128	Adaptable Hydrogels Mediate Cofactor-Assisted Activation of Biomarker-Responsive Drug Delivery via Positive Feedback for Enhanced Tissue Regeneration. <i>Advanced Science</i> , <b>2018</b> , 5, 1800875	13.6	93
127	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> , <b>2018</b> , 174, 1-16	15.6	92
126	Instant tough bioadhesive with triggerable benign detachment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 15497-15503	11.5	91
125	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg <sup>2+</sup> ) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701642	15.6	84
124	Robust Biopolymeric Supramolecular Host-Guest Macromer Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , <b>2016</b> , 49, 866-875	5.5	82
123	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> , <b>2017</b> , 64, 389-400	10.8	76
122	Magnetically Tuning Tether Mobility of Integrin Ligand Regulates Adhesion, Spreading, and Differentiation of Stem Cells. <i>Nano Letters</i> , <b>2017</b> , 17, 1685-1695	11.5	75
121	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	74
120	Self-assembled N-cadherin mimetic peptide hydrogels promote the chondrogenesis of mesenchymal stem cells through inhibition of canonical Wnt/ $\beta$ -catenin signaling. <i>Biomaterials</i> , <b>2017</b> , 145, 33-43	15.6	71
119	Influence of decreasing nutrient path length on the development of engineered cartilage. <i>Osteoarthritis and Cartilage</i> , <b>2009</b> , 17, 677-85	6.2	64
118	Hydrogels functionalized with N-cadherin mimetic peptide enhance osteogenesis of hMSCs by emulating the osteogenic niche. <i>Biomaterials</i> , <b>2016</b> , 77, 44-52	15.6	63
117	Passaged adult chondrocytes can form engineered cartilage with functional mechanical properties: a canine model. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 1041-51	3.9	60
116	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> , <b>2016</b> , 110, 1-10	15.6	59
115	Organic semiconducting polymer amphiphile for near-infrared-II light-triggered phototheranostics. <i>Biomaterials</i> , <b>2020</b> , 232, 119684	15.6	59
114	Immunoregulation of macrophages by dynamic ligand presentation via ligand-cation coordination. <i>Nature Communications</i> , <b>2019</b> , 10, 1696	17.4	58
113	Effective Phototheranostics of Brain Tumor Assisted by Near-Infrared-II Light-Responsive Semiconducting Polymer Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 33492-33499	9.5	57
112	Mussel-mimetic hydrogels with defined cross-linkers achieved via controlled catechol dimerization exhibiting tough adhesion for wet biological tissues. <i>Chemical Communications</i> , <b>2017</b> , 53, 12000-12003	5.8	53
111	Remote Manipulation of Ligand Nano-Oscillations Regulates Adhesion and Polarization of Macrophages in Vivo. <i>Nano Letters</i> , <b>2017</b> , 17, 6415-6427	11.5	52

110	Remote Control of Heterodimeric Magnetic Nanoswitch Regulates the Adhesion and Differentiation of Stem Cells. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5909-5913	16.4	50
109	Differences in interleukin-1 response between engineered and native cartilage. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 1721-30	3.9	50
108	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation In Vivo. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802642	15.6	48
107	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. <i>ACS Nano</i> , <b>2017</b> , 11, 9636-9649	16.7	47
106	Cell-mediated degradation regulates human mesenchymal stem cell chondrogenesis and hypertrophy in MMP-sensitive hyaluronic acid hydrogels. <i>PLoS ONE</i> , <b>2014</b> , 9, e99587	3.7	47
105	Magnetic Manipulation of Reversible Nanocaging Controls In Vivo Adhesion and Polarization of Macrophages. <i>ACS Nano</i> , <b>2018</b> , 12, 5978-5994	16.7	47
104	Influence of temporary chondroitinase ABC-induced glycosaminoglycan suppression on maturation of tissue-engineered cartilage. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 2065-72	3.9	45
103	Injectable biomaterials for translational medicine. <i>Materials Today</i> , <b>2019</b> , 28, 81-97	21.8	42
102	Mechanical and biochemical characterization of cartilage explants in serum-free culture. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 1153-9	2.9	42
101	Near-infrared light-controlled regulation of intracellular calcium to modulate macrophage polarization. <i>Biomaterials</i> , <b>2018</b> , 178, 681-696	15.6	40
100	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. <i>Science Advances</i> , <b>2019</b> , 5, eaaw3896	14.3	40
99	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> , <b>2016</b> , 5, 1049-57 <sup>10.1</sup>	10.1	40
98	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> , <b>2018</b> , 10, e455-e455	10.3	39
97	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> , <b>2017</b> , 5, 11387-11394	8.3	38
96	Hierarchical Porous Poly(l-lactic acid) Nanofibrous Membrane for Ultrafine Particulate Aerosol Filtration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46261-46268	9.5	38
95	New bio-renewable polyester with rich side amino groups from L-lysine via controlled ring-opening polymerization. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 6495-6502	4.9	38
94	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , <b>2019</b> , 10, 2705	17.4	37
93	Supramolecular hydrogels cross-linked by preassembled host-guest PEG cross-linkers resist excessive, ultrafast, and non-resting cyclic compression. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 788-799	10.3	37

92	Multivalent Host-Guest Hydrogels as Fatigue-Resistant 3D Matrix for Excessive Mechanical Stimulation of Encapsulated Cells. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8604-8610	9.6	37
91	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> , <b>2016</b> , 26, 2463-2472	15.6	37
90	Substrate Coupling Strength of Integrin-Binding Ligands Modulates Adhesion, Spreading, and Differentiation of Human Mesenchymal Stem Cells. <i>Nano Letters</i> , <b>2015</b> , 15, 6592-600	11.5	36
89	Synergistic effects on mesenchymal stem cell-based cartilage regeneration by chondrogenic preconditioning and mechanical stimulation. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 221	8.3	36
88	Desuccinylation-Triggered Peptide Self-Assembly: Live Cell Imaging of SIRT5 Activity and Mitochondrial Activity Modulation. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18150-18159	16.4	34
87	Effects of dexamethasone on the functional properties of cartilage explants during long-term culture. <i>American Journal of Sports Medicine</i> , <b>2010</b> , 38, 78-85	6.8	33
86	Liquid-Solid Dual-Gate Organic Transistors with Tunable Threshold Voltage for Cell Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38687-38694	9.5	32
85	Anisotropic Ligand Nanogeometry Modulates the Adhesion and Polarization State of Macrophages. <i>Nano Letters</i> , <b>2019</b> , 19, 1963-1975	11.5	32
84	An In Situ Reversible Heterodimeric Nanoswitch Controlled by Metal-Ion-Ligand Coordination Regulates the Mechanosensing and Differentiation of Stem Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803594	11.4	32
83	New chemosynthetic route to linear $\beta$ -poly-lysine. <i>Chemical Science</i> , <b>2015</b> , 6, 6385-6391	9.4	31
82	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> , <b>2017</b> , 105, 2292-2300	3.5	30
81	Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. <i>Chemical Reviews</i> , <b>2021</b> , 121, 11149-11193	68.1	30
80	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> , <b>2018</b> , 14, 1702288	11	29
79	Photocontrolled siRNA Delivery and Biomarker-Triggered Luminogens of Aggregation-Induced Emission by Up-Conversion NaYF <sub>3</sub> :YbTm@SiO <sub>2</sub> Nanoparticles for Inducing and Monitoring Stem-Cell Differentiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22074-22084	9.5	29
78	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , <b>2019</b> , 15, 242-251	6.6	28
77	Targeted Covalent Inhibition of Grb2-Sos1 Interaction through Proximity-Induced Conjugation in Breast Cancer Cells. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 1548-1557	5.6	27
76	Injectable Nanoreinforced Shape-Memory Hydrogel System for Regenerating Spinal Cord Tissue from Traumatic Injury. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29299-29307	9.5	27
75	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. <i>Nature Communications</i> , <b>2021</b> , 12, 3514	17.4	27

74	Isoliquiritigenin-induced differentiation in mouse melanoma B16F0 cell line. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2012</b> , 2012, 534934	6.7	26
73	Toward engineering a biological joint replacement. <i>Journal of Knee Surgery</i> , <b>2012</b> , 25, 187-96	2.4	26
72	Ultrafast self-gelling powder mediates robust wet adhesion to promote healing of gastrointestinal perforations. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	26
71	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> , <b>2019</b> , 29, 1806822	15.6	26
70	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. <i>Biomaterials</i> , <b>2017</b> , 149, 12-28	15.6	25
69	One-pot atom-efficient synthesis of bio-renewable polyesters and cyclic carbonates through tandem catalysis. <i>Chemical Communications</i> , <b>2015</b> , 51, 8504-7	5.8	24
68	Ultrafast Self-Gelling and Wet Adhesive Powder for Acute Hemostasis and Wound Healing. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102583	15.6	24
67	3D printed gelatin/hydroxyapatite scaffolds for stem cell chondrogenic differentiation and articular cartilage repair. <i>Biomaterials Science</i> , <b>2021</b> , 9, 2620-2630	7.4	24
66	Effect of inorganic/organic ratio and chemical coupling on the performance of porous silica/chitosan hybrid scaffolds. <i>Materials Science and Engineering C</i> , <b>2017</b> , 70, 969-975	8.3	23
65	Highly Dynamic Nanocomposite Hydrogels Self-Assembled by Metal Ion-Ligand Coordination. <i>Small</i> , <b>2019</b> , 15, e1900242	11	23
64	Bisphosphonate-based nanocomposite hydrogels for biomedical applications. <i>Bioactive Materials</i> , <b>2020</b> , 5, 819-831	16.7	23
63	Microscopic local stiffening in a supramolecular hydrogel network expedites stem cell mechanosensing in 3D and bone regeneration. <i>Materials Horizons</i> , <b>2021</b> , 8, 1722-1734	14.4	23
62	Biocompatible cellulose-based supramolecular nanoparticles driven by host-guest interactions for drug delivery. <i>Carbohydrate Polymers</i> , <b>2020</b> , 237, 116114	10.3	22
61	Differential effect of hypoxia on human mesenchymal stem cell chondrogenesis and hypertrophy in hyaluronic acid hydrogels. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 1333-40	10.8	22
60	Magnetic Living Hydrogels for Intestinal Localization, Retention, and Diagnosis. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010918	15.6	22
59	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 1019-26	5.5	22
58	Preserving the adhesion of catechol-conjugated hydrogels by thiourea-quinone coupling. <i>Biomaterials Science</i> , <b>2016</b> , 4, 1726-1730	7.4	22
57	Functionalization of SF/HAP Scaffold with GO-PEI-miRNA inhibitor Complexes to Enhance Bone Regeneration through Activating Transcription Factor 4. <i>Theranostics</i> , <b>2019</b> , 9, 4525-4541	12.1	21



56	Intrapulmonary Cellular-Level Distribution of Inhaled Nanoparticles with Defined Functional Groups and Its Correlations with Protein Corona and Inflammatory Response. <i>ACS Nano</i> , <b>2019</b> , 13, 14048-14069 <sup>16,7,21</sup>		
55	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> , <b>2008</b> , 41, 3253-9 <sup>2,9</sup>	20	
54	Injectable supramolecular gelatin hydrogel loading of resveratrol and histatin-1 for burn wound therapy. <i>Biomaterials Science</i> , <b>2020</b> , 8, 4810-4820	7.4	20
53	Nanomedicine-Boosting Tumor Immunogenicity for Enhanced Immunotherapy. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2011171	15.6	20
52	Soft Polymeric Matrix as a Macroscopic Cage for Magnetically Modulating Reversible Nanoscale Ligand Presentation. <i>Nano Letters</i> , <b>2020</b> , 20, 3207-3216	11.5	19
51	A new strategy to synthesize bottlebrushes with a helical polyglutamate backbone via N-carboxyanhydride polymerization and RAFT. <i>Chemical Communications</i> , <b>2014</b> , 50, 14183-6	5.8	18
50	Efficient catechol functionalization of biopolymeric hydrogels for effective multiscale bioadhesion. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109835	8.3	16
49	A skin inspired bio-smart composite with water responsive shape memory ability. <i>Materials Chemistry Frontiers</i> , <b>2019</b> , 3, 1128-1138	7.8	16
48	Magnetic Enhancement of Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 2200-2207	5.5	16
47	Injectable chitin hydrogels with self-healing property and biodegradability as stem cell carriers. <i>Carbohydrate Polymers</i> , <b>2021</b> , 256, 117574	10.3	16
46	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Stone-Two-Bird Postgelation Functionalization Method. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 16328-16335	9.5	15
45	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> , <b>2006</b> , 2006, 779-82		15
44	Manipulation of the Nanoscale Presentation of Integrin Ligand Produces Cancer Cells with Enhanced Stemness and Robust Tumorigenicity. <i>Nano Letters</i> , <b>2021</b> , 21, 3225-3236	11.5	15
43	Influence of chondroitin sulfate on the biochemical, mechanical and frictional properties of cartilage explants in long-term culture. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 286-90	2.9	14
42	Optical $\mu$ -Printing of Cellular-Scale Microscaffold Arrays for 3D Cell Culture. <i>Scientific Reports</i> , <b>2017</b> , 7, 8880	4.9	13
41	Rationally designed protein cross-linked hydrogel for bone regeneration via synergistic release of magnesium and zinc ions. <i>Biomaterials</i> , <b>2021</b> , 274, 120895	15.6	13
40	Cross-Linked Cellulose Membranes with Robust Mechanical Property, Self-Adaptive Breathability, and Excellent Biocompatibility. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19799-19806	8.3	12
39	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> , <b>2020</b> , 8, 12463-12471 <sup>13</sup>	11	

38	Biomimetic Presentation of Cryptic Ligands Single-Chain Nanogels for Synergistic Regulation of Stem Cells. <i>ACS Nano</i> , <b>2020</b> , 14, 4027-4035	16.7	11
37	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> , <b>2015</b> , 43, 287-96	4.7	10
36	Multiscale reconstruction of a synthetic biomimetic micro-niche for enhancing and monitoring the differentiation of stem cells. <i>Biomaterials</i> , <b>2018</b> , 173, 87-99	15.6	10
35	Immunoregulation of Macrophages by Controlling Winding and Unwinding of Nanohelical Ligands. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103409	15.6	10
34	Nanoparticle-assembled bioadhesive coacervate coating with prolonged gastrointestinal retention for inflammatory bowel disease therapy. <i>Nature Communications</i> , <b>2021</b> , 12, 7162	17.4	9
33	IFN- $\gamma$ /SrBG composite scaffolds promote osteogenesis by sequential regulation of macrophages from M1 to M2. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 1867-1876	7.3	9
32	Cell-adaptable dynamic hydrogel reinforced with stem cells improves the functional repair of spinal cord injury by alleviating neuroinflammation. <i>Biomaterials</i> , <b>2021</b> , 279, 121190	15.6	8
31	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> , <b>2019</b> , 54, 1236-1247	4.3	8
30	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> , <b>2018</b> , 2, 1800010	3.5	8
29	Engineering Photoresponsive Ligand Tethers for Mechanical Regulation of Stem Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2105765	24	8
28	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> , <b>2018</b> , 26, 291-301	1.7	7
27	Manipulating the mechanical properties of biomimetic hydrogels with multivalent host-guest interactions. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 1726-1733	7.3	7
26	Long-Term Detection of Oncogenic MicroRNA in Living Human Cancer Cells by Gold@Polydopamine-Shell Nanoprobe. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3778-3783	5.5	6
25	Phytantriol-Based Cubosome Formulation as an Antimicrobial against Lipopolysaccharide-Deficient Gram-Negative Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44485-44498	9.5	6
24	Change in viability of C2C12 myoblasts under compression, shear and oxidative challenges. <i>Journal of Biomechanics</i> , <b>2016</b> , 49, 1305-1310	2.9	6
23	Dynamic cell-adaptable hydrogels with a moderate level of elasticity promote 3D development of encapsulated cells. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100892	6.6	5
22	Surface decoration of development-inspired synthetic N-cadherin motif via Ac-BP promotes osseointegration of metal implants. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1353-1364	16.7	5
21	Adhesive Hemostatic Hydrogel with Ultrafast Gelation Arrests Acute Upper Gastrointestinal Hemorrhage in Pigs. <i>Advanced Functional Materials</i> , 2109332	15.6	5



20	A Gold@Polydopamine Core-Shell Nanoprobe for Long-Term Intracellular Detection of MicroRNAs in Differentiating Stem Cells. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1570, 155-164	1.4	4
19	An Innovative Solvent-Responsive Coiling-Expanding Stent. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101005	24	4
18	Direct optical micropatterning of poly(dimethylsiloxane) for microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , <b>2018</b> , 28, 095011	2	4
17	Nanoparticle-Assembled Vacuolated Coacervates Control Macromolecule Spatiotemporal Distribution to Provide a Stable Segregated Cell Microenvironment. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007209	24	4
16	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> , <b>2014</b> , 2, 170-176	4.2	3
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