

Liming Bian

List of Publications by Year in descending order

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149
papers

10,476
citations

28190

55
h-index

38300

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all docs

153
docs citations

153
times ranked

10871
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017, 2, .	9.9	594
2	Soft Materials by Design: Unconventional Polymer Networks Give Extreme Properties. <i>Chemical Reviews</i> , 2021, 121, 4309-4372.	23.0	472
3	Electrical bioadhesive interface for bioelectronics. <i>Nature Materials</i> , 2021, 20, 229-236.	13.3	361
4	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, 10117-10122.	3.3	344
5	Enhanced MSC chondrogenesis following delivery of TGF- β 3 from alginate microspheres within hyaluronic acid hydrogels in vitro and in vivo. <i>Biomaterials</i> , 2011, 32, 6425-6434.	5.7	327
6	The influence of hyaluronic acid hydrogel crosslinking density and macromolecular diffusivity on human MSC chondrogenesis and hypertrophy. <i>Biomaterials</i> , 2013, 34, 413-421.	5.7	265
7	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, 217-228.	5.7	249
8	The beneficial effect of delayed compressive loading on tissue-engineered cartilage constructs cultured with TGF- β 3. <i>Osteoarthritis and Cartilage</i> , 2007, 15, 1025-1033.	0.6	235
9	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, 1137-1145.	1.6	235
10	Magnetite Nanostructured Porous Hollow Helical Microswimmers for Targeted Delivery. <i>Advanced Functional Materials</i> , 2015, 25, 5333-5342.	7.8	210
11	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.	3.3	210
12	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, 7337-7346.	6.6	202
13	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.	5.7	179
14	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.	5.3	166
15	Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. <i>Chemical Reviews</i> , 2021, 121, 11149-11193.	23.0	161
16	Bioadhesive hydrogels demonstrating pH-independent and ultrafast gelation promote gastric ulcer healing in pigs. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	147
17	Ultrafast Self-Gelling and Wet Adhesive Powder for Acute Hemostasis and Wound Healing. <i>Advanced Functional Materials</i> , 2021, 31, 2102583.	7.8	146
18	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.	5.6	141

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19	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.	5.7	140
20	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.	4.1	136
21	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.	7.3	127
22	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, 715-724.	1.6	121
23	Ultrafast self-gelling powder mediates robust wet adhesion to promote healing of gastrointestinal perforations. <i>Science Advances</i> , 2021, 7, .	4.7	118
24	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.	4.1	117
25	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.	7.8	110
26	Dynamic Mechanical Loading Enhances Functional Properties of Tissue-Engineered Cartilage Using Mature Canine Chondrocytes. <i>Tissue Engineering - Part A</i> , 2010, 16, 1781-1790.	1.6	109
27	Robust Biopolymeric Supramolecular Host-Guest Macromer-Hydrogels Reinforced by <i>In Situ</i> Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016, 49, 866-875.	2.2	102
28	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.	5.7	100
29	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.	4.0	100
30	Magnetically Tuning Tether Mobility of Integrin Ligand Regulates Adhesion, Spreading, and Differentiation of Stem Cells. <i>Nano Letters</i> , 2017, 17, 1685-1695.	4.5	96
31	Organic semiconducting polymer amphiphile for near-infrared-II light-triggered phototheranostics. <i>Biomaterials</i> , 2020, 232, 119684.	5.7	96
32	Enhanced mechanosensing of cells in synthetic 3D matrix with controlled biophysical dynamics. <i>Nature Communications</i> , 2021, 12, 3514.	5.8	92
33	Immunoregulation of macrophages by dynamic ligand presentation via ligand-cation coordination. <i>Nature Communications</i> , 2019, 10, 1696.	5.8	84
34	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.	6.6	84
35	Nanomedicine-Boosting Tumor Immunogenicity for Enhanced Immunotherapy. <i>Advanced Functional Materials</i> , 2021, 31, 2011171.	7.8	84
36	Injectable biomaterials for translational medicine. <i>Materials Today</i> , 2019, 28, 81-97.	8.3	82

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37	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.	5.7	77
38	Hydrogels functionalized with N-cadherin mimetic peptide enhance osteogenesis of hMSCs by emulating the osteogenic niche. <i>Biomaterials</i> , 2016, 77, 44-52.	5.7	77
39	Hierarchical Porous Poly(l-lactic acid) Nanofibrous Membrane for Ultrafine Particulate Aerosol Filtration. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46261-46268.	4.0	77
40	Magnetic Living Hydrogels for Intestinal Localization, Retention, and Diagnosis. <i>Advanced Functional Materials</i> , 2021, 31, 2010918.	7.8	77
41	Influence of decreasing nutrient path length on the development of engineered cartilage. <i>Osteoarthritis and Cartilage</i> , 2009, 17, 677-685.	0.6	76
42	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.	2.2	76
43	3D printed gelatin/hydroxyapatite scaffolds for stem cell chondrogenic differentiation and articular cartilage repair. <i>Biomaterials Science</i> , 2021, 9, 2620-2630.	2.6	73
44	Remote Manipulation of Ligand Nano-Oscillations Regulates Adhesion and Polarization of Macrophages in Vivo. <i>Nano Letters</i> , 2017, 17, 6415-6427.	4.5	72
45	Near-infrared light-controlled regulation of intracellular calcium to modulate macrophage polarization. <i>Biomaterials</i> , 2018, 178, 681-696.	5.7	71
46	Nanoparticle-assembled bioadhesive coacervate coating with prolonged gastrointestinal retention for inflammatory bowel disease therapy. <i>Nature Communications</i> , 2021, 12, 7162.	5.8	70
47	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.	6.6	67
48	Magnetic Manipulation of Reversible Nanocaging Controls <i>In Vivo</i> Adhesion and Polarization of Macrophages. <i>ACS Nano</i> , 2018, 12, 5978-5994.	7.3	67
49	Remote Control of Multimodal Nanoscale Ligand Oscillations Regulates Stem Cell Adhesion and Differentiation. <i>ACS Nano</i> , 2017, 11, 9636-9649.	7.3	65
50	Synthetic presentation of noncanonical Wnt5a motif promotes mechanosensing-dependent differentiation of stem cells and regeneration. <i>Science Advances</i> , 2019, 5, eaaw3896.	4.7	64
51	Passaged Adult Chondrocytes Can Form Engineered Cartilage with Functional Mechanical Properties: A Canine Model. <i>Tissue Engineering - Part A</i> , 2010, 16, 1041-1051.	1.6	63
52	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.	6.4	62
53	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , 2019, 10, 2705.	5.8	60
54	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.	3.8	59

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55	Remote Control of Intracellular Calcium Using Upconversion Nanotransducers Regulates Stem Cell Differentiation In Vivo. <i>Advanced Functional Materials</i> , 2018, 28, 1802642.	7.8	58
56	Cell-Mediated Degradation Regulates Human Mesenchymal Stem Cell Chondrogenesis and Hypertrophy in MMP-Sensitive Hyaluronic Acid Hydrogels. <i>PLoS ONE</i> , 2014, 9, e99587.	1.1	57
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.	3.2	55
58	Bisphosphonate-based nanocomposite hydrogels for biomedical applications. <i>Bioactive Materials</i> , 2020, 5, 819-831.	8.6	55
59	Rationally designed protein cross-linked hydrogel for bone regeneration via synergistic release of magnesium and zinc ions. <i>Biomaterials</i> , 2021, 274, 120895.	5.7	55
60	Differences in Interleukin-1 Response Between Engineered and Native Cartilage. <i>Tissue Engineering - Part A</i> , 2008, 14, 1721-1730.	1.6	53
61	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.	5.7	53
62	Influence of Temporary Chondroitinase ABC-Induced Glycosaminoglycan Suppression on Maturation of Tissue-Engineered Cartilage. <i>Tissue Engineering - Part A</i> , 2009, 15, 2065-2072.	1.6	52
63	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.	2.4	52
64	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , 2019, 15, 242-251.	2.3	52
65	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, 1049-1057.	3.9	50
66	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.	3.8	50
67	New chemosynthetic route to linear μ -poly-lysine. <i>Chemical Science</i> , 2015, 6, 6385-6391.	3.7	49
68	Injectable Nanoreinforced Shape-Memory Hydrogel System for Regenerating Spinal Cord Tissue from Traumatic Injury. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29299-29307.	4.0	49
69	Mechanical and biochemical characterization of cartilage explants in serum-free culture. <i>Journal of Biomechanics</i> , 2008, 41, 1153-1159.	0.9	48
70	Adhesive Hemostatic Hydrogel with Ultrafast Gelation Arrests Acute Upper Gastrointestinal Hemorrhage in Pigs. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	48
71	Anisotropic Ligand Nanogeometry Modulates the Adhesion and Polarization State of Macrophages. <i>Nano Letters</i> , 2019, 19, 1963-1975.	4.5	47
72	New bio-renewable polyester with rich side amino groups from ϵ -lysine via controlled ring-opening polymerization. <i>Polymer Chemistry</i> , 2014, 5, 6495-6502.	1.9	46

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73	Liquid-Solid Dual-Gate Organic Transistors with Tunable Threshold Voltage for Cell Sensing. ACS Applied Materials & Interfaces, 2017, 9, 38687-38694.	4.0	46
74	Highly Dynamic Nanocomposite Hydrogels Self-Assembled by Metal Ion-Ligand Coordination. Small, 2019, 15, e1900242.	5.2	45
75	Magnesium-Encapsulated Injectable Hydrogel and 3D-Engineered Polycaprolactone Conduit Facilitate Peripheral Nerve Regeneration. Advanced Science, 2022, 9, .	5.6	45
76	An In Situ Reversible Heterodimeric Nanoswitch Controlled by Metal-Ion-Ligand Coordination Regulates the Mechanosensing and Differentiation of Stem Cells. Advanced Materials, 2018, 30, e1803591.	11.1	44
77	Substrate Coupling Strength of Integrin-Binding Ligands Modulates Adhesion, Spreading, and Differentiation of Human Mesenchymal Stem Cells. Nano Letters, 2015, 15, 6592-6600.	4.5	43
78	Functionalization of SF/HAP Scaffold with GO-PEI-miRNA inhibitor Complexes to Enhance Bone Regeneration through Activating Transcription Factor 4. Theranostics, 2019, 9, 4525-4541.	4.6	43
79	Photocontrolled siRNA Delivery and Biomarker-Triggered Luminogens of Aggregation-Induced Emission by Up-Conversion NaYF ₄ :Yb ³⁺ Tm ³⁺ @SiO ₂ Nanoparticles for Inducing and Monitoring Stem-Cell Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 22074-22084.	4.0	43
80	Nanocarrier-Mediated Codelivery of Small Molecular Drugs and siRNA to Enhance Chondrogenic Differentiation and Suppress Hypertrophy of Human Mesenchymal Stem Cells. Advanced Functional Materials, 2016, 26, 2463-2472.	7.8	42
81	Multivalent Host-Guest Hydrogels as Fatigue-Resistant 3D Matrix for Excessive Mechanical Stimulation of Encapsulated Cells. Chemistry of Materials, 2017, 29, 8604-8610.	3.2	42
82	Intrapulmonary Cellular-Level Distribution of Inhaled Nanoparticles with Defined Functional Groups and Its Correlations with Protein Corona and Inflammatory Response. ACS Nano, 2019, 13, 14048-14069.	7.3	42
83	Bioadhesive Polymersome for Localized and Sustained Drug Delivery at Pathological Sites with Harsh Enzymatic and Fluidic Environment via Supramolecular Host-Guest Complexation. Small, 2018, 14, 1702288.	5.2	40
84	Injectable supramolecular gelatin hydrogel loading of resveratrol and histatin-1 for burn wound therapy. Biomaterials Science, 2020, 8, 4810-4820.	2.6	40
85	Anisotropic Nanoscale Presentation of Cell Adhesion Ligand Enhances the Recruitment of Diverse Integrins in Adhesion Structures and Mechanosensing-Dependent Differentiation of Stem Cells. Advanced Functional Materials, 2019, 29, 1806822.	7.8	38
86	Effects of Dexamethasone on the Functional Properties of Cartilage Explants during Long-Term Culture. American Journal of Sports Medicine, 2010, 38, 78-85.	1.9	37
87	Nanolayered hybrid mediates synergistic co-delivery of ligand and ligation activator for inducing stem cell differentiation and tissue healing. Biomaterials, 2017, 149, 12-28.	5.7	36
88	Effect of cartilaginous matrix components on the chondrogenesis and hypertrophy of mesenchymal stem cells in hyaluronic acid hydrogels. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 2292-2300.	1.6	36
89	Isoliquiritigenin-Induced Differentiation in Mouse Melanoma B16F0 Cell Line. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-11.	1.9	35
90	Efficient catechol functionalization of biopolymeric hydrogels for effective multiscale bioadhesion. Materials Science and Engineering C, 2019, 103, 109835.	3.8	34

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91	Biocompatible cellulose-based supramolecular nanoparticles driven by host-guest interactions for drug delivery. <i>Carbohydrate Polymers</i> , 2020, 237, 116114.	5.1	34
92	Soft Polymeric Matrix as a Macroscopic Cage for Magnetically Modulating Reversible Nanoscale Ligand Presentation. <i>Nano Letters</i> , 2020, 20, 3207-3216.	4.5	34
93	Preserving the adhesion of catechol-conjugated hydrogels by thiourea-quinone coupling. <i>Biomaterials Science</i> , 2016, 4, 1726-1730.	2.6	33
94	Magnetic Enhancement of Chondrogenic Differentiation of Mesenchymal Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2200-2207.	2.6	33
95	An Innovative Solvent-Responsive Coiling-Expanding Stent. <i>Advanced Materials</i> , 2021, 33, e2101005.	11.1	33
96	Toward Engineering a Biological Joint Replacement. <i>Journal of Knee Surgery</i> , 2012, 25, 187-196.	0.9	32
97	Targeted Covalent Inhibition of Grb2-Sos1 Interaction through Proximity-Induced Conjugation in Breast Cancer Cells. <i>Molecular Pharmaceutics</i> , 2017, 14, 1548-1557.	2.3	32
98	Injectable chitin hydrogels with self-healing property and biodegradability as stem cell carriers. <i>Carbohydrate Polymers</i> , 2021, 256, 117574.	5.1	32
99	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.	3.8	30
100	Differential effect of hypoxia on human mesenchymal stem cell chondrogenesis and hypertrophy in hyaluronic acid hydrogels. <i>Acta Biomaterialia</i> , 2014, 10, 1333-1340.	4.1	29
101	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.	3.2	29
102	Bioactive Nanocomposite Poly (Ethylene Glycol) Hydrogels Crosslinked by Multifunctional Layered Double Hydroxides Nanocrosslinkers. <i>Macromolecular Bioscience</i> , 2016, 16, 1019-1026.	2.1	28
103	A skin inspired bio-smart composite with water responsive shape memory ability. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1128-1138.	3.2	28
104	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.	4.5	28
105	Functional hydrogel bioink, a key challenge of 3D cellular bioprinting. <i>APL Bioengineering</i> , 2020, 4, 030401.	3.3	27
106	Engineering Photoresponsive Ligand Tethers for Mechanical Regulation of Stem Cells. <i>Advanced Materials</i> , 2021, 33, e2105765.	11.1	27
107	One-pot atom-efficient synthesis of bio-renewable polyesters and cyclic carbonates through tandem catalysis. <i>Chemical Communications</i> , 2015, 51, 8504-8507.	2.2	26
108	Bisphosphonate-based hydrogel mediates biomimetic negative feedback regulation of osteoclastic activity to promote bone regeneration. <i>Bioactive Materials</i> , 2022, 13, 9-22.	8.6	26

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109	Stretchable and Bioadhesive Supramolecular Hydrogels Activated by a One-Step Two-Bird Postgelation Functionalization Method. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16328-16335.	4.0	25
110	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, 3253-3259.	0.9	23
111	IFN- γ /SrBC composite scaffolds promote osteogenesis by sequential regulation of macrophages from M1 to M2. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1867-1876.	2.9	23
112	A new strategy to synthesize bottlebrushes with a helical polyglutamate backbone via N-carboxyanhydride polymerization and RAFT. <i>Chemical Communications</i> , 2014, 50, 14183-14186.	2.2	22
113	Optical μ -Printing of Cellular-Scale Microscaffold Arrays for 3D Cell Culture. <i>Scientific Reports</i> , 2017, 7, 8880.	1.6	22
114	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.	5.2	22
115	Biomimetic Presentation of Cryptic Ligands <i>via</i> Single-Chain Nanogels for Synergistic Regulation of Stem Cells. <i>ACS Nano</i> , 2020, 14, 4027-4035.	7.3	22
116	Immunoregulation of Macrophages by Controlling Winding and Unwinding of Nanohelical Ligands. <i>Advanced Functional Materials</i> , 2021, 31, 2103409.	7.8	19
117	The Effect of Applied Compressive Loading on Tissue-Engineered Cartilage Constructs Cultured with TGF- β 3. , 2006, 2006, 779-82.		18
118	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, 286-290.	0.9	15
119	Manipulating the mechanical properties of biomimetic hydrogels with multivalent host-guest interactions. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1726-1733.	2.9	15
120	The Effect of the Nanoparticle Shape on T Cell Activation. <i>Small</i> , 2022, 18, e2107373.	5.2	15
121	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, 287-296.	1.3	14
122	Multiscale reconstruction of a synthetic biomimetic micro-niche for enhancing and monitoring the differentiation of stem cells. <i>Biomaterials</i> , 2018, 173, 87-99.	5.7	14
123	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.	4.0	14
124	Ultrasound-Responsive Aqueous Two-Phase Microcapsules for On-Demand Drug Release. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
125	Biomaterial-Mediated Presentation of Jagged-1 Mimetic Ligand Enhances Cellular Activation of Notch Signaling and Bone Regeneration. <i>ACS Nano</i> , 2022, 16, 1051-1062.	7.3	14
126	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.	0.3	13

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127	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.	1.7	13
128	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.	2.6	13
129	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.	3.0	12
130	Phytantriol-Based Cubosome Formulation as an Antimicrobial against Lipopolysaccharide-Deficient Gram-Negative Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44485-44498.	4.0	12
131	Change in viability of C2C12 myoblasts under compression, shear and oxidative challenges. <i>Journal of Biomechanics</i> , 2016, 49, 1305-1310.	0.9	11
132	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.	8.6	10
133	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.	3.3	9
134	Dynamic cell-adaptable hydrogels with a moderate level of elasticity promote 3D development of encapsulated cells. <i>Applied Materials Today</i> , 2021, 22, 100892.	2.3	9
135	Nanoparticle@Assembled Vacuolated Coacervates Control Macromolecule Spatiotemporal Distribution to Provide a Stable Segregated Cell Microenvironment. <i>Advanced Materials</i> , 2021, 33, 2007209.	11.1	9
136	Biomaterial-mediated presentation of wnt5a mimetic ligands enhances chondrogenesis and metabolism of stem cells by activating non-canonical Wnt signaling. <i>Biomaterials</i> , 2022, 281, 121316.	5.7	8
137	Direct optical micropatterning of poly(dimethylsiloxane) for microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 095011.	1.5	7
138	Discovery of a Novel Src Homology-2 Domain Containing Protein Tyrosine Phosphatase-2 (SHP2) and Cyclin-Dependent Kinase 4 (CDK4) Dual Inhibitor for the Treatment of Triple-Negative Breast Cancer. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 6729-6747.	2.9	7
139	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.	1.9	6
140	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.	0.4	5
141	Ultrasound@Responsive Aqueous Two@Phase Microcapsules for On@Demand Drug Release. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
142	Seco-4-methyl-DCK derivatives as potent chemosensitizers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 28-31.	1.0	3
143	Chemical study of the Chinese medicine Pi Han Yao. <i>Biomedical Reports</i> , 2016, 4, 219-222.	0.9	2
144	Functional Tissue Engineering of Articular Cartilage With Adult Chondrocytes. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
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