

Functional and Biomimetic Materials for Engineering of Microenvironment

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Introduction: Bioinspired and Biomimetic Materials. <i>Chemical Reviews</i> , 2017, 117, 12581-12583.	23.0	77
2	Engineering ellipsoidal cap-like hydrogel particles as building blocks or sacrificial templates for three-dimensional cell culture. <i>Biomaterials Science</i> , 2018, 6, 885-892.	2.6	9
3	Rational Fabrication of Anti-Freezing, Non-Drying Tough Organohydrogels by One-Pot Solvent Displacement. <i>Angewandte Chemie</i> , 2018, 130, 6678-6681.	1.6	96
4	Rational Fabrication of Anti-Freezing, Non-Drying Tough Organohydrogels by One-Pot Solvent Displacement. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6568-6571.	7.2	341
5	Recent advances in microfluidic models for cancer metastasis research. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 105, 1-6.	5.8	17
6	Hydrodynamics in Cell Studies. <i>Chemical Reviews</i> , 2018, 118, 2042-2079.	23.0	75
7	Self-crosslinking and injectable chondroitin sulfate/pullulan hydrogel for cartilage tissue engineering. <i>Applied Materials Today</i> , 2018, 10, 173-183.	2.3	89
8	Photosensitive peptide hydrogels as smart materials for applications. <i>Chinese Chemical Letters</i> , 2018, 29, 1098-1104.	4.8	27
9	Development of biocompatible fluorescent gelatin nanocarriers for cell imaging and anticancer drug targeting. <i>Journal of Materials Science</i> , 2018, 53, 10679-10691.	1.7	55
10	Rheological behavior of pH responsive composite hydrogels of chitosan and alginate: Characterization and its use in encapsulation of citral. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 99-106.	2.5	66
11	Engineering the Cell Microenvironment Using Novel Photoresponsive Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12374-12389.	4.0	48
12	Photoresponsive fiber scaffolds with a core-sheath nanostructure for regulating cell behaviors. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2052-2056.	2.9	9
13	High Modulus Conductive Hydrogels Enhance In Vitro Maturation and Contractile Function of Primary Cardiomyocytes for Uses in Drug Screening. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800990.	3.9	28
14	Nanostructure Evolution of Biomimetic Hydrogel from Silk Fibroin and Poly(N-Vinylcaprolactam): A Small Angle Neutron Scattering Study. <i>ACS Symposium Series</i> , 2018, , 71-89.	0.5	0
15	Manipulating cell fate: dynamic control of cell behaviors on functional platforms. <i>Chemical Society Reviews</i> , 2018, 47, 8639-8684.	18.7	115
16	Adhesion Control of Branched Catecholic Polymers by Acid Stimulation. <i>ACS Omega</i> , 2018, 3, 16626-16632.	1.6	13
17	Near-infrared AIEgen-functionalized and diselenide-linked oligo-ethylenimine with self-sufficing ROS to exert spatiotemporal responsibility for promoted gene delivery. <i>Journal of Materials Chemistry B</i> , 2018, 6, 6660-6666.	2.9	14
18	Acyldiazone functionalized benzimidazole-based metallohydrogel for the efficient detection and separation of Cr ³⁺ . <i>Soft Matter</i> , 2018, 14, 8390-8394.	1.2	22

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19	3D Culture of Mesenchymal Stem Cells in Alginate Hydrogels. <i>Methods in Molecular Biology</i> , 2018, 2002, 165-180.	0.4	15
20	Porous and responsive hydrogels for cell therapy. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 38, 135-157.	3.4	35
21	The protective effects of acupoint gel embedding on rats with myocardial ischemia-reperfusion injury. <i>Life Sciences</i> , 2018, 211, 51-62.	2.0	14
22	Nanoscaled and microscaled parallel topography promotes tenogenic differentiation of ASC and neotendon formation in vitro. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 3867-3881.	3.3	29
23	Biodegradable and elastomeric vascular grafts enable vascular remodeling. <i>Biomaterials</i> , 2018, 183, 306-318.	5.7	84
24	The relationship between thiol-acrylate photopolymerization kinetics and hydrogel mechanics: An improved model incorporating photobleaching and thiol-Michael addition. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 88, 160-169.	1.5	16
25	Energy dissipation in quasi-linear viscoelastic tissues, cells, and extracellular matrix. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 84, 198-207.	1.5	15
26	Programmed Shape-Morphing Scaffolds Enabling Facile 3D Endothelialization. <i>Advanced Functional Materials</i> , 2018, 28, 1801027.	7.8	125
27	Tunable stiffness of graphene oxide/polyacrylamide composite scaffolds regulates cytoskeleton assembly. <i>Chemical Science</i> , 2018, 9, 6516-6522.	3.7	22
28	Electrospun three-dimensional aligned nanofibrous scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2018, 92, 995-1005.	3.8	91
29	Recent Advances in Engineering the Stem Cell Microniche in 3D. <i>Advanced Science</i> , 2018, 5, 1800448.	5.6	83
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31	Tough Magnetic Chitosan Hydrogel Nanocomposites for Remotely Stimulated Drug Release. <i>Biomacromolecules</i> , 2018, 19, 3351-3360.	2.6	87
32	Microfluidic fabrication of microparticles for biomedical applications. <i>Chemical Society Reviews</i> , 2018, 47, 5646-5683.	18.7	410
33	Softening and Shape Morphing of Stiff Tough Hydrogels by Localized Unlocking of the Trivalent Ionically Cross-Linked Centers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800143.	2.0	38
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35	Multiple Cross-Linking of a Small Peptide to Form a Size Tunable Biopolymer with Efficient Cell Adhesion and Proliferation Property. <i>Biomacromolecules</i> , 2018, 19, 3994-4002.	2.6	16
36	Tailoring Collagen to Engineer the Cellular Microenvironment. <i>Biotechnology Journal</i> , 2018, 13, 1800140.	1.8	5

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37	Tumor Oxygenation and Hypoxia Inducible Factor-1 Functional Inhibition via a Reactive Oxygen Species Responsive Nanoplatfor for Enhancing Radiation Therapy and Abscopal Effects. ACS Nano, 2018, 12, 8308-8322.	7.3	213
38	Hierarchical Micro- and Nanopatterning of Metallic Glass to Engineer Cellular Responses. ACS Applied Bio Materials, 2018, 1, 51-58.	2.3	12
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40	Microchannel Stiffness and Confinement Jointly Induce the Mesenchymal-Amoeboid Transition of Cancer Cell Migration. Nano Letters, 2019, 19, 5949-5958.	4.5	60
41	Engineered materials for organoid systems. Nature Reviews Materials, 2019, 4, 606-622.	23.3	251
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50	Fabrication and characterization of a novel konjac glucomannan-based air filtration aerogels strengthened by wheat straw and okara. Carbohydrate Polymers, 2019, 224, 115129.	5.1	43
51	A Myoblast-Laden Collagen Bioink with Fully Aligned Au Nanowires for Muscle-Tissue Regeneration. Nano Letters, 2019, 19, 8612-8620.	4.5	82
52	Directional topography gradients drive optimum alignment and differentiation of human myoblasts. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 2234-2245.	1.3	28
53	Bioactuators based on stimulus-responsive hydrogels and their emerging biomedical applications. NPC Asia Materials, 2019, 11, .	3.8	202
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55	Stimuli-responsive hydrogels for manipulation of cell microenvironment: From chemistry to biofabrication technology. <i>Progress in Polymer Science</i> , 2019, 98, 101147.	11.8	120
56	Enhancement and control of neuron adhesion on polydimethylsiloxane for cell microengineering using a functionalized triblock polymer. <i>Lab on A Chip</i> , 2019, 19, 3162-3167.	3.1	12
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61	Helium Plasma-Driven Radiofrequency in Body Contouring. , 0, , .		4
62	Use of Aligned Microscale Sacrificial Fibers in Creating Biomimetic, Anisotropic Poly(glycerol) Tj ETQq1 1 0.784314,rgBT /Overlock 10	2.9	8
63	Impact of Antifouling PEG Layer on the Performance of Functional Peptides in Regulating Cell Behaviors. <i>Journal of the American Chemical Society</i> , 2019, 141, 16772-16780.	6.6	133
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67	Biofabrication of phenotypic pulmonary fibrosis assays. <i>Biofabrication</i> , 2019, 11, 032005.	3.7	7
69	Optimization of the cell microenvironment in a dual magnetic-pH-sensitive hydrogel-based scaffold by multiphysics modeling. <i>Bioelectrochemistry</i> , 2019, 129, 90-99.	2.4	10
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74	Toward a comprehensive view of cancer immune responsiveness: a synopsis from the SITC workshop. , 2019, 7, 131.		64

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75	Stem cells from human exfoliated deciduous teeth as an alternative cell source in bio-root regeneration. <i>Theranostics</i> , 2019, 9, 2694-2711.	4.6	73
76	Photosensitive Hydrogel Creates Favorable Biologic Niches to Promote Spinal Cord Injury Repair. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900013.	3.9	52
77	Fish Collagen and Hydroxyapatite Reinforced Poly(lactide-co-glycolide) Fibrous Membrane for Guided Bone Regeneration. <i>Biomacromolecules</i> , 2019, 20, 2058-2067.	2.6	74
78	Imaging oxygen microenvironment in hydrogel microwell array. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2019, 35, 321-328.	1.5	5
79	Ultrasonication-Induced Modification of Hydroxyapatite Nanoparticles onto a 3D Porous Poly(lactic) and Engineering, 2019, 304, 1900081.	1.7	12
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86	Mouse <i>in vitro</i> spermatogenesis on alginate-based 3D bioprinted scaffolds. <i>Biofabrication</i> , 2019, 11, 035011.	3.7	48
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88	Modification of 3-D Porous Hydroxyapatite/Thermoplastic Polyurethane Composite Scaffolds for Reinforcing Interfacial Adhesion by Polydopamine Surface Coating. <i>ACS Omega</i> , 2019, 4, 6382-6391.	1.6	23
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131	Development of Optimized Strategies for Growth Factor Incorporation onto Electrospun Fibrous Scaffolds To Promote Prolonged Release. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5578-5592.	4.0	33
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149	Modeling the epithelial-mesenchymal transition process in a 3D organotypic cervical neoplasia. <i>Acta Biomaterialia</i> , 2020, 116, 209-222.	4.1	11
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479	Recent Developments of Silk-Based Scaffolds for Tissue Engineering and Regenerative Medicine Applications: A Special Focus on the Advancement of 3D Printing. <i>Biomimetics</i> , 2023, 8, 16.	1.5	9
480	ANTXR1 as a potential sensor of extracellular mechanical cues. <i>Acta Biomaterialia</i> , 2023, 158, 80-86.	4.1	3
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485	Gold nanocluster decorated fibrous substrate for photo-modulated cellular growth. <i>Journal of Materials Chemistry C</i> , 2023, 11, 2600-2607.	2.7	4
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492	Functionalized gelatin-alginate based bioink with enhanced manufacturability and biomimicry for accelerating wound healing. <i>International Journal of Biological Macromolecules</i> , 2023, 240, 124364.	3.6	5
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