Mariana B Oliveira

List of Publications by Year
in descending order

288 papers	18,890 citations	8181 76 h-index	17592 121 g-index
294 all docs	294 docs citations	294 times ranked	19994 citing authors

#	Article	IF	Citations
1	Molecular Interactions Driving the Layer-by-Layer Assembly of Multilayers. Chemical Reviews, 2014, 114, 8883-8942.	47.7	697
2	Three-dimensional plotted scaffolds with controlled pore size gradients: Effect of scaffold geometry on mechanical performance and cell seeding efficiency. Acta Biomaterialia, 2011, 7, 1009-1018.	8.3	487
3	Natural polymers for the microencapsulation of cells. Journal of the Royal Society Interface, 2014, 11, 20140817.	3.4	480
4	Polymer/bioactive glass nanocomposites for biomedical applications: A review. Composites Science and Technology, 2010, 70, 1764-1776.	7.8	451
5	Novel hydroxyapatite/chitosan bilayered scaffold for osteochondral tissue-engineering applications: Scaffold design and its performance when seeded with goat bone marrow stromal cells. Biomaterials, 2006, 27, 6123-6137.	11.4	411
6	Genipinâ€crossâ€linked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2010, 95A, 465-475.	4.0	291
7	Smart thermoresponsive coatings and surfaces for tissue engineering: switching cell-material boundaries. Trends in Biotechnology, 2007, 25, 577-583.	9.3	289
8	Controlling Cell Behavior Through the Design of Polymer Surfaces. Small, 2010, 6, 2208-2220.	10.0	289
9	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. Acta Biomaterialia, 2012, 8, 289-301.	8.3	276
10	Polyelectrolyte multilayered assemblies in biomedical technologies. Chemical Society Reviews, 2014, 43, 3453.	38.1	262
11	Bone physiology as inspiration for tissue regenerative therapies. Biomaterials, 2018, 185, 240-275.	11.4	259
12	Novel Genipin-Cross-Linked Chitosan/Silk Fibroin Sponges for Cartilage Engineering Strategies. Biomacromolecules, 2008, 9, 2764-2774.	5.4	240
13	Stimuliâ€Responsive Nanocomposite Hydrogels for Biomedical Applications. Advanced Functional Materials, 2021, 31, 2005941.	14.9	234
14	Chitosan/bioactive glass nanoparticle composite membranes for periodontal regeneration. Acta Biomaterialia, 2012, 8, 4173-4180.	8.3	209
15	Marine Origin Polysaccharides in Drug Delivery Systems. Marine Drugs, 2016, 14, 34.	4.6	205
16	Chitosan/Poly(É›-caprolactone) blend scaffolds for cartilage repair. Biomaterials, 2011, 32, 1068-1079.	11.4	204
17	Biomimetic design of materials and biomaterials inspired by the structure of nacre. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1587-1605.	3.4	193
18	Ionic liquids in the processing and chemical modification of chitin and chitosan for biomedical applications. Green Chemistry, 2017, 19, 1208-1220.	9.0	190

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19	Bioinspired Degradable Substrates with Extreme Wettability Properties. Advanced Materials, 2009, 21, 1830-1834.	21.0	174
20	Carrageenan-Based Hydrogels for the Controlled Delivery of PDGF-BB in Bone Tissue Engineering Applications. Biomacromolecules, 2009, 10, 1392-1401.	5.4	165
21	Drug Release of pH/Temperature-Responsive Calcium Alginate/Poly(N-isopropylacrylamide) Semi-IPN Beads. Macromolecular Bioscience, 2006, 6, 358-363.	4.1	150
22	Development of bioactive and biodegradable chitosan-based injectable systems containing bioactive glass nanoparticles. Acta Biomaterialia, 2009, 5, 115-123.	8.3	150
23	Chitosan Scaffolds Containing Hyaluronic Acid for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2011, 17, 717-730.	2.1	149
24	Preparation and in vitro characterization of scaffolds of poly(l-lactic acid) containing bioactive glass ceramic nanoparticles. Acta Biomaterialia, 2008, 4, 1297-1306.	8.3	148
25	Bioinspired Ultratough Hydrogel with Fast Recovery, Selfâ€Healing, Injectability and Cytocompatibility. Advanced Materials, 2017, 29, 1700759.	21.0	148
26	Preparation and <i>in vitro</i> characterization of novel bioactive glass ceramic nanoparticles. Journal of Biomedical Materials Research - Part A, 2009, 88A, 304-313.	4.0	144
27	Interactions between cells or proteins and surfaces exhibiting extreme wettabilities. Soft Matter, 2013, 9, 2985.	2.7	143
28	Gellan Gum Injectable Hydrogels for Cartilage Tissue Engineering Applications: <i>In Vitro</i> Studies and Preliminary <i>In Vivo</i> Evaluation. Tissue Engineering - Part A, 2010, 16, 343-353.	3.1	142
29	Polymerâ€based microparticles in tissue engineering and regenerative medicine. Biotechnology Progress, 2011, 27, 897-912.	2.6	140
30	Bilayered silk/silk-nanoCaP scaffolds for osteochondral tissue engineering: In vitro and in vivo assessment of biological performance. Acta Biomaterialia, 2015, 12, 227-241.	8.3	140
31	The osteogenic differentiation of rat bone marrow stromal cells cultured with dexamethasone-loaded carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles. Biomaterials, 2009, 30, 804-813.	11.4	131
32	Free-Standing Polyelectrolyte Membranes Made of Chitosan and Alginate. Biomacromolecules, 2013, 14, 1653-1660.	5.4	131
33	Extremely strong and tough hydrogels as prospective candidates for tissue repair â€“ A review. European Polymer Journal, 2015, 72, 344-364.	5.4	129
34	Advanced Bottomâ€Up Engineering of Living Architectures. Advanced Materials, 2020, 32, e1903975.	21.0	127
35	Preparation and characterization of bioactive glass nanoparticles prepared by solâ€“gel for biomedical applications. Nanotechnology, 2011, 22, 494014.	2.6	124
36	Mineralized structures in nature: Examples and inspirations for the design of new composite materials and biomaterials. Composites Science and Technology, 2010, 70, 1777-1788.	7.8	123

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37	Cell interactions with superhydrophilic and superhydrophobic surfaces. Journal of Adhesion Science and Technology, 2014, 28, 843-863.	2.6	123
38	Chitosan coated alginate beads containing poly(<i>N</i>â€isopropylacrylamide) for dualâ€stimuliâ€responsive drug release. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 595-603.	3.4	118
39	Green processing of porous chitin structures for biomedical applications combining ionic liquids and supercritical fluid technology. Acta Biomaterialia, 2011, 7, 1166-1172.	8.3	114
40	Preparation of chitosan scaffolds loaded with dexamethasone for tissue engineering applications using supercritical fluid technology. European Polymer Journal, 2009, 45, 141-148.	5.4	111
41	Controlled Release Strategies for Bone, Cartilage, and Osteochondral Engineeringâ€"Part II: Challenges on the Evolution from Single to Multiple Bioactive Factor Delivery. Tissue Engineering - Part B: Reviews, 2013, 19, 327-352.	4.8	108
42	Extraction and physico-chemical characterization of a versatile biodegradable polysaccharide obtained from green algae. Carbohydrate Research, 2010, 345, 2194-2200.	2.3	106
43	Layerâ€byâ€Layer Assembly of Lightâ€Responsive Polymeric Multilayer Systems. Advanced Functional Materials, 2014, 24, 5624-5648.	14.9	106
44	Nanostructured 3D Constructs Based on Chitosan and Chondroitin Sulphate Multilayers for Cartilage Tissue Engineering. PLoS ONE, 2013, 8, e55451.	2.5	105
45	Two-Dimensional Open Microfluidic Devices by Tuning the Wettability on Patterned Superhydrophobic Polymeric Surface. Applied Physics Express, 2010, 3, 085205.	2.4	103
46	Development and Characterization of a Novel Hybrid Tissue Engineeringâ€"Based Scaffold for Spinal Cord Injury Repair. Tissue Engineering - Part A, 2010, 16, 45-54.	3.1	103
47	Wettability Influences Cell Behavior on Superhydrophobic Surfaces with Different Topographies. Biointerphases, 2012, 7, 46.	1.6	103
48	Potential applications of natural origin polymer-based systems in soft tissue regeneration. Critical Reviews in Biotechnology, 2010, 30, 200-221.	9.0	102
49	Strategic Advances in Formation of Cellâ€inâ€Shell Structures: From Syntheses to Applications. Advanced Materials, 2018, 30, e1706063.	21.0	102
50	Stimuli-responsive chitosan-starch injectable hydrogels combined with encapsulated adipose-derived stromal cells for articular cartilage regeneration. Soft Matter, 2010, 6, 5184.	2.7	100
51	Chemical modification of bioinspired superhydrophobic polystyrene surfaces to control cell attachment/proliferation. Soft Matter, 2011, 7, 8932.	2.7	100
52	Biomimetic Extracellular Environment Based on Natural Origin Polyelectrolyte Multilayers. Small, 2016, 12, 4308-4342.	10.0	100
53	High-throughput evaluation of interactions between biomaterials, proteins and cells using patterned superhydrophobic substrates. Soft Matter, 2011, 7, 4147.	2.7	99
54	Production methodologies of polymeric and hydrogel particles for drug delivery applications. Expert Opinion on Drug Delivery, 2012, 9, 231-248.	5.0	98

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55	Chitosan membranes containing micro or nano-size bioactive glass particles: evolution of biomineralization followed by in situ dynamic mechanical analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 173-183.	3.1	98
56	Layerâ€byâ€Layer Assembly of Chitosan and Recombinant Biopolymers into Biomimetic Coatings with Multiple Stimuliâ€Responsive Properties. Small, 2011, 7, 2640-2649.	10.0	97
57	Chondrogenic potential of injectableâ€‰<i>Îº</i> -carrageenan hydrogel with encapsulated adipose stem cells for cartilage tissue-engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 550-563.	2.7	97
58	Viscoelastic Properties of Chitosan with Different Hydration Degrees as Studied by Dynamic Mechanical Analysis. Macromolecular Bioscience, 2008, 8, 69-76.	4.1	96
59	Synthesis of Temperature-Responsive Dextran-MA/PNIPAAm Particles for Controlled Drug Delivery Using Superhydrophobic Surfaces. Pharmaceutical Research, 2011, 28, 1294-1305.	3.5	96
60	Bioinspired superhydrophobic poly(<scp>L</scp>â€lactic acid) surfaces control bone marrow derived cells adhesion and proliferation. Journal of Biomedical Materials Research - Part A, 2009, 91A, 480-488.	4.0	94
61	The use of ionic liquids in the processing of chitosan/silk hydrogels for biomedical applications. Green Chemistry, 2012, 14, 1463.	9.0	93
62	Superhydrophobic Chips for Cell Spheroids High-Throughput Generation and Drug Screening. ACS Applied Materials & Interfaces, 2014, 6, 9488-9495.	8.0	91
63	Coating Strategies Using Layerâ€byâ€layer Deposition for Cell Encapsulation. Chemistry - an Asian Journal, 2016, 11, 1753-1764.	3.3	90
64	Bioinspired methodology to fabricate hydrogel spheres for multi-applications using superhydrophobic substrates. Soft Matter, 2010, 6, 5868.	2.7	88
65	Chitosan-chondroitin sulphate nanoparticles for controlled delivery of platelet lysates in bone regenerative medicine. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, s47-s59.	2.7	88
66	Tailored Freestanding Multilayered Membranes Based on Chitosan and Alginate. Biomacromolecules, 2014, 15, 3817-3826.	5.4	88
67	Development of Gellan Gum-Based Microparticles/Hydrogel Matrices for Application in the Intervertebral Disc Regeneration. Tissue Engineering - Part C: Methods, 2011, 17, 961-972.	2.1	87
68	Bioplotting of a bioactive alginate dialdehyde-gelatin composite hydrogel containing bioactive glass nanoparticles. Biofabrication, 2016, 8, 035005.	7.1	86
69	Rheological and mechanical properties of acellular and cellâ€laden methacrylated gellan gum hydrogels. Journal of Biomedical Materials Research - Part A, 2013, 101, 3438-3446.	4.0	84
70	Stimuli-responsive nanocarriers for delivery of bone therapeutics â€“ Barriers and progresses. Journal of Controlled Release, 2018, 273, 51-67.	9.9	84
71	Stimuliâ€Responsive Thin Coatings Using Elastinâ€Like Polymers for Biomedical Applications. Advanced Functional Materials, 2009, 19, 3210-3218.	14.9	83
72	Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobicâ€Hydrophilic Micropatterns. Advanced Materials, 2016, 28, 7613-7619.	21.0	83

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73	Dexamethasone-loaded scaffolds prepared by supercritical-assisted phase inversion. Acta Biomaterialia, 2009, 5, 2054-2062.	8.3	82
74	Micro/nano-structured superhydrophobic surfaces in the biomedical field: part II: applications overview. Nanomedicine, 2015, 10, 271-297.	3.3	81
75	Silk hydrogels from non-mulberry and mulberry silkworm cocoons processed with ionic liquids. Acta Biomaterialia, 2013, 9, 8972-8982.	8.3	79
76	Preparation of starch-based scaffolds for tissue engineering by supercritical immersion precipitation. Journal of Supercritical Fluids, 2009, 49, 279-285.	3.2	76
77	Multilayered Hierarchical Capsules Providing Cell Adhesion Sites. Biomacromolecules, 2013, 14, 743-751.	5.4	75
78	Macroporous hydroxyapatite scaffolds for bone tissue engineering applications: Physicochemical characterization and assessment of rat bone marrow stromal cell viability. Journal of Biomedical Materials Research - Part A, 2009, 91A, 175-186.	4.0	73
79	Chitosan/bioactive glass nanoparticles scaffolds with shape memory properties. Carbohydrate Polymers, 2015, 123, 39-45.	10.2	72
80	In-air production of 3D co-culture tumor spheroid hydrogels for expedited drug screening. Acta Biomaterialia, 2019, 94, 392-409.	8.3	72
81	Microparticles in Contact with Cells: From Carriers to Multifunctional Tissue Modulators. Trends in Biotechnology, 2019, 37, 1011-1028.	9.3	72
82	Genipinâ€Modified Silkâ€Fibroin Nanometric Nets. Macromolecular Bioscience, 2008, 8, 766-774.	4.1	71
83	Engineering Biomolecular Microenvironments for Cell Instructive Biomaterials. Advanced Healthcare Materials, 2014, 3, 797-810.	7.6	71
84	A novel hanging spherical drop system for the generation of cellular spheroids and high throughput combinatorial drug screening. Biomaterials Science, 2015, 3, 581-585.	5.4	70
85	Magnetic composite biomaterials for tissue engineering. Biomaterials Science, 2014, 2, 812-818.	5.4	67
86	Drug nano-reservoirs synthesized using layer-by-layer technologies. Biotechnology Advances, 2015, 33, 1310-1326.	11.7	67
87	Chitosan microparticles as injectable scaffolds for tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2008, 2, 378-380.	2.7	65
88	New biotextiles for tissue engineering: Development, characterization and in vitro cellular viability. Acta Biomaterialia, 2013, 9, 8167-8181.	8.3	65
89	Cell Surface Engineering to Control Cellular Interactions. ChemNanoMat, 2016, 2, 376-384.	2.8	65
90	Iron Gall Ink Revisited: In Situ Oxidation of Fe(II)â€"Tannin Complex for Fluidicâ€Interface Engineering. Advanced Materials, 2018, 30, e1805091.	21.0	65

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91	Functionalized superhydrophobic biomimetic chitosan-based films. Carbohydrate Polymers, 2010, 81, 140-144.	10.2	64
92	Recent Progress on Polysaccharide-Based Hydrogels for Controlled Delivery of Therapeutic Biomolecules. ACS Biomaterials Science and Engineering, 2021, 7, 4102-4127.	5.2	64
93	Superhydrophobic Surfaces Engineered Using Diatomaceous Earth. ACS Applied Materials & Interfaces, 2013, 5, 4202-4208.	8.0	63
94	Micro-/nano-structured superhydrophobic surfaces in the biomedical field: part I: basic concepts and biomimetic approaches. Nanomedicine, 2015, 10, 103-119.	3.3	63
95	Photo-Cross-Linked Laminarin-Based Hydrogels for Biomedical Applications. Biomacromolecules, 2016, 17, 1602-1609.	5.4	63
96	Chitosan/Chondroitin Sulfate Membranes Produced by Polyelectrolyte Complexation for Cartilage Engineering. Biomacromolecules, 2016, 17, 2178-2188.	5.4	62
97	Semipermeable Capsules Wrapping a Multifunctional and Self-regulated Co-culture Microenvironment for Osteogenic Differentiation. Scientific Reports, 2016, 6, 21883.	3.3	62
98	Multi-layer pre-vascularized magnetic cell sheets for bone regeneration. Biomaterials, 2020, 231, 119664.	11.4	62
99	Dynamic mechanical behavior of starch-based scaffolds in dry and physiologically simulated conditions: Effect of porosity and pore size. Acta Biomaterialia, 2008, 4, 950-959.	8.3	60
100	Chitosan/bioactive glass nanoparticles composites for biomedical applications. Biomedical Materials (Bristol), 2012, 7, 054104.	3.3	60
101	Bioactive macro/micro porous silk fibroin/nano-sized calcium phosphate scaffolds with potential for bone-tissue-engineering applications. Nanomedicine, 2013, 8, 359-378.	3.3	60
102	Modification of paper using polyhydroxybutyrate to obtain biomimetic superhydrophobic substrates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 416, 51-55.	4.7	59
103	Role of superhydrophobicity in the biological activity of fibronectin at the cellâ€“material interface. Soft Matter, 2011, 7, 10803.	2.7	58
104	Biomimetic Miniaturized Platform Able to Sustain Arrays of Liquid Droplets for Highâ€Throughput Combinatorial Tests. Advanced Functional Materials, 2014, 24, 5096-5103.	14.9	58
105	pH Responsiveness of Multilayered Films and Membranes Made of Polysaccharides. Langmuir, 2015, 31, 11318-11328.	3.5	58
106	Monoâ€dispersed bioactive glass nanospheres: Preparation and effects on biomechanics of mammalian cells. Journal of Biomedical Materials Research - Part A, 2010, 95A, 747-754.	4.0	57
107	From nano- to macro-scale: nanotechnology approaches for spatially controlled delivery of bioactive factors for bone and cartilage engineering. Nanomedicine, 2012, 7, 1045-1066.	3.3	57
108	Liquified chitosanâ€“alginate multilayer capsules incorporating poly(<scp>l</scp>-lactic acid) microparticles as cell carriers. Soft Matter, 2013, 9, 2125-2130.	2.7	57

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109	Myoconductive and osteoinductive free-standing polysaccharide membranes. Acta Biomaterialia, 2015, 15, 139-149.	8.3	57
110	Surface Engineered Carboxymethylchitosan/Poly(amidoamine) Dendrimer Nanoparticles for Intracellular Targeting. Advanced Functional Materials, 2008, 18, 1840-1853.	14.9	56
111	Recent advances on open fluidic systems for biomedical applications: A review. Materials Science and Engineering C, 2019, 97, 851-863.	7.3	56
112	Perspectives on: Supercritical Fluid Technology for 3D Tissue Engineering Scaffold Applications. Journal of Bioactive and Compatible Polymers, 2009, 24, 385-400.	2.1	55
113	Multifunctional Compartmentalized Capsules with a Hierarchical Organization from the Nano to the Macro Scales. Biomacromolecules, 2013, 14, 2403-2410.	5.4	55
114	Adhesive free-standing multilayer films containing sulfated levan for biomedical applications. Acta Biomaterialia, 2018, 69, 183-195.	8.3	55
115	Strontium-Doped Bioactive Glass Nanoparticles in Osteogenic Commitment. ACS Applied Materials & Interfaces, 2018, 10, 23311-23320.	8.0	55
116	Thermoresponsive poly(<i>N</i>â€isopropylacrylamide)â€<i>g</i>â€methylcellulose hydrogel as a threeâ€dimensional extracellular matrix for cartilageâ€engineered applications. Journal of Biomedical Materials Research - Part A, 2011, 98A, 596-603.	4.0	54
117	New Thermo-responsive Hydrogels Based on Poly (N-isopropylacrylamide)/ Hyaluronic Acid Semi-interpenetrated Polymer Networks: Swelling Properties and Drug Release Studies. Journal of Bioactive and Compatible Polymers, 2010, 25, 169-184.	2.1	53
118	Compact Saloplastic Membranes of Natural Polysaccharides for Soft Tissue Engineering. Chemistry of Materials, 2015, 27, 7490-7502.	6.7	53
119	Nanoengineering Hybrid Supramolecular Multilayered Biomaterials Using Polysaccharides and Selfâ€Assembling Peptide Amphiphiles. Advanced Functional Materials, 2017, 27, 1605122.	14.9	53
120	Nanostructured self-assembled films containing chitosan fabricated at neutral pH. Carbohydrate Polymers, 2010, 80, 570-573.	10.2	52
121	Layerâ€Byâ€Layer Technique for Producing Porous Nanostructured 3D Constructs Using Moldable Freeform Assembly of Spherical Templates. Small, 2010, 6, 2644-2648.	10.0	52
122	Fabrication and characterization of Eri silk fibers-based sponges for biomedical application. Acta Biomaterialia, 2016, 32, 178-189.	8.3	52
123	Pectin-coated chitosan microgels crosslinked on superhydrophobic surfaces for 5-fluorouracil encapsulation. Carbohydrate Polymers, 2013, 98, 331-340.	10.2	51
124	Combinatorial cellâ€"3D biomaterials cytocompatibility screening for tissue engineering using bioinspired superhydrophobic substrates. Integrative Biology (United Kingdom), 2012, 4, 318.	1.3	50
125	Gellan gumâ€hydroxyapatite composite spongyâ€like hydrogels for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2018, 106, 479-490.	4.0	50
126	Poly(<i>N</i>â€isopropylacrylamide) surfaceâ€grafted chitosan membranes as a new substrate for cell sheet engineering and manipulation. Biotechnology and Bioengineering, 2008, 101, 1321-1331.	3.3	49

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127	Patterned superhydrophobic paper for microfluidic devices obtained by writing and printing. Cellulose, 2013, 20, 2185-2190.	4.9	49
128	High-throughput screening for integrative biomaterials design: exploring advances and new trends. Trends in Biotechnology, 2014, 32, 627-636.	9.3	49
129	Towards the design of 3D multiscale instructive tissue engineering constructs: Current approaches and trends. Biotechnology Advances, 2015, 33, 842-855.	11.7	49
130	Highâ€Throughput Topographic, Mechanical, and Biological Screening of Multilayer Films Containing Musselâ€Inspired Biopolymers. Advanced Functional Materials, 2016, 26, 2745-2755.	14.9	49
131	Freeform 3D printing using a continuous viscoelastic supporting matrix. Biofabrication, 2020, 12, 035017.	7.1	49
132	Unleashing the potential of supercritical fluids for polymer processing in tissue engineering and regenerative medicine. Journal of Supercritical Fluids, 2013, 79, 177-185.	3.2	48
133	Nanostructured Hollow Tubes Based on Chitosan and Alginate Multilayers. Advanced Healthcare Materials, 2014, 3, 433-440.	7.6	48
134	Layer-by-layer assembled cell instructive nanocoatings containing platelet lysate. Biomaterials, 2015, 48, 56-65.	11.4	48
135	GelMA/bioactive silica nanocomposite bioinks for stem cell osteogenic differentiation. Biofabrication, 2021, 13, 035012.	7.1	48
136	Autonomous osteogenic differentiation of hASCs encapsulated in methacrylated gellan-gum hydrogels. Acta Biomaterialia, 2016, 41, 119-132.	8.3	47
137	Injectable Biomaterials for Dental Tissue Regeneration. International Journal of Molecular Sciences, 2020, 21, 3442.	4.1	47
138	Proteins and Their Peptide Motifs in Acellular Apatite Mineralization of Scaffolds for Tissue Engineering. Tissue Engineering - Part B: Reviews, 2008, 14, 433-445.	4.8	46
139	Biomimetic Methodology to Produce Polymeric Multilayered Particles for Biotechnological and Biomedical Applications. Small, 2013, 9, 2487-2492.	10.0	46
140	Design and functionalization of chitin-based microsphere scaffolds. Green Chemistry, 2013, 15, 3252.	9.0	45
141	Microengineered Multicomponent Hydrogel Fibers: Combining Polyelectrolyte Complexation and Microfluidics. ACS Biomaterials Science and Engineering, 2017, 3, 1322-1331.	5.2	45
142	Viscoelastic properties of bone: Mechanical spectroscopy studies on a chicken model. Materials Science and Engineering C, 2005, 25, 145-152.	7.3	44
143	Dual Responsive Nanostructured Surfaces for Biomedical Applications. Langmuir, 2011, 27, 8415-8423.	3.5	44
144	Micropatterning of Bioactive Glass Nanoparticles on Chitosan Membranes for Spatial Controlled Biomineralization. Langmuir, 2012, 28, 6970-6977.	3.5	43

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145	Magnetic Force-Based Tissue Engineering and Regenerative Medicine. Journal of Biomedical Nanotechnology, 2013, 9, 1129-1136.	1.1	43
146	Natural assembly of platelet lysate-loaded nanocarriers into enriched 3D hydrogels for cartilage regeneration. Acta Biomaterialia, 2015, 19, 56-65.	8.3	42
147	Chitosanâ€"alginate multilayered films with gradients of physicochemical cues. Journal of Materials Chemistry B, 2015, 3, 4555-4568.	5.8	42
148	Surface Microâ€•and Nanoengineering: Applications of Layerâ€byâ€Layer Technology as a Versatile Tool to Control Cellular Behavior. Small, 2019, 15, e1901228.	10.0	42
149	Differentiation of mesenchymal stem cells in chitosan scaffolds with double micro and macroporosity. Journal of Biomedical Materials Research - Part A, 2010, 95A, 1182-1193.	4.0	41
150	Surfaceâ€Tensionâ€Driven Gradient Generation in a Fluid Stripe for Benchâ€Top and Microwell Applications. Small, 2011, 7, 892-901.	10.0	41
151	Combinatorial Onâ€Chip Study of Miniaturized 3D Porous Scaffolds Using a Patterned Superhydrophobic Platform. Small, 2013, 9, 768-778.	10.0	41
152	Fucoidan Hydrogels Photo-Cross-Linked with Visible Radiation As Matrices for Cell Culture. ACS Biomaterials Science and Engineering, 2016, 2, 1151-1161.	5.2	41
153	Proteinaceous Hydrogels for Bioengineering Advanced 3D Tumor Models. Advanced Science, 2021, 8, 2003129.	11.2	41
154	Functionalized Microparticles Producing Scaffolds in Combination with Cells. Advanced Functional Materials, 2014, 24, 1391-1400.	14.9	39
155	Cell Encapsulation Systems Toward Modular Tissue Regeneration: From Immunoisolation to Multifunctional Devices. Advanced Functional Materials, 2020, 30, 1908061.	14.9	39
156	Novel Methodology Based on Biomimetic Superhydrophobic Substrates to Immobilize Cells and Proteins in Hydrogel Spheres for Applications in Bone Regeneration. Tissue Engineering - Part A, 2013, 19, 1175-1187.	3.1	38
157	Photopolymerizable Platelet Lysate Hydrogels for Customizable 3D Cell Culture Platforms. Advanced Healthcare Materials, 2018, 7, e1800849.	7.6	38
158	Injectable gellan-gum/hydroxyapatite-based bilayered hydrogel composites for osteochondral tissue regeneration. Applied Materials Today, 2018, 12, 309-321.	4.3	38
159	Processing of novel bioactive polymeric matrixes for tissue engineering using supercritical fluid technology. Materials Science and Engineering C, 2009, 29, 2110-2115.	7.3	37
160	Nanostructured and thermoresponsive recombinant biopolymer-based microcapsules for the delivery of active molecules. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 895-902.	3.3	37
161	Microfluidic Production of Perfluorocarbon-Alginate Coreâ€"Shell Microparticles for Ultrasound Therapeutic Applications. Langmuir, 2014, 30, 12391-12399.	3.5	37
162	3D-bioprinted cancer-on-a-chip: level-up organotypic in vitro models. Trends in Biotechnology, 2022, 40, 432-447.	9.3	36

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163	Magnetically Labeled Cells with Surfaceâ€Modified Fe₃O₄ Spherical and Rodâ€Shaped Magnetic Nanoparticles for Tissue Engineering Applications. Advanced Healthcare Materials, 2015, 4, 883-891.	7.6	35
164	Nanocoatings containing sulfated polysaccharides prepared by layer-by-layer assembly as models to study cellâ€"material interactions. Journal of Materials Chemistry B, 2013, 1, 4406.	5.8	33
165	Cryopreservation of cell laden natural origin hydrogels for cartilage regeneration strategies. Soft Matter, 2013, 9, 875-885.	2.7	33
166	Nanoengineering of bioactive glasses: hollow and dense nanospheres. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	33
167	Bio-inspired Aloe vera sponges for biomedical applications. Carbohydrate Polymers, 2014, 112, 264-270.	10.2	33
168	BioactÄ±ve Glassâ€Polymer Nanocomposites for Bone TÄ±ssue Regeneration ApplicatÄ±ons: A RevÄ±ew. Advanced Engineering Materials, 2019, 21, 1900287.	3.5	33
169	Dynamic microfactories co-encapsulating osteoblastic and adipose-derived stromal cells for the biofabrication of bone units. Biofabrication, 2020, 12, 015005.	7.1	33
170	Double network laminarin-boronic/alginate dynamic bioink for 3D bioprinting cell-laden constructs. Biofabrication, 2021, 13, 035045.	7.1	33
171	Combining biomimetic principles from the lotus leaf and mussel adhesive: polystyrene films with superhydrophobic and adhesive layers. RSC Advances, 2013, 3, 9352.	3.6	32
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