Mariana B Oliveira

List of Publications by Year
in descending order

288	18,890	9428	20625
papers	citations	76 h-index	120 g-index

294	294	294	22555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	3D-bioprinted cancer-on-a-chip: level-up organotypic in vitro models. Trends in Biotechnology, 2022, 40, 432-447.	4.9	36
2	Microparticles orchestrating cell fate in bottom-up approaches. Current Opinion in Biotechnology, 2022, 73, 276-281.	3.3	8
3	Nanoscale design in biomineralization for developing new biomaterials. , 2022, , 345-384.		0
4	Self-glucose feeding hydrogels by enzyme empowered degradation for 3D cell culture. Materials Horizons, 2022, 9, 694-707.	6.4	10
5	Designing highly customizable human based platforms for cell culture using proteins from the amniotic membrane. Materials Science and Engineering C, 2022, 134, 112574.	3.8	8
6	Freestanding Magnetic Microtissues for Tissue Engineering Applications. Advanced Healthcare Materials, 2022, 11, e2101532.	3.9	5
7	Hipster microcarriers: exploring geometrical and topographical cues of non-spherical microcarriers in biomedical applications. Materials Horizons, 2022, 9, 908-933.	6.4	15
8	NMR Metabolomics Assessment of Osteogenic Differentiation of Adipose-Tissue-Derived Mesenchymal Stem Cells. Journal of Proteome Research, 2022, 21, 654-670.	1.8	7
9	Coreâ€“shell microcapsules: biofabrication and potential applications in tissue engineering and regenerative medicine. Biomaterials Science, 2022, 10, 2122-2153.	2.6	11
10	Emerging modulators for osteogenic differentiation: a combination of chemical and topographical cues for bone microenvironment engineering. Soft Matter, 2022, 18, 3107-3119.	1.2	6
11	Human Proteinâ€Based Porous Scaffolds as Platforms for Xenoâ€Free 3D Cell Culture. Advanced Healthcare Materials, 2022, 11, e2102383.	3.9	11
12	Endo- and Exometabolome Crosstalk in Mesenchymal Stem Cells Undergoing Osteogenic Differentiation. Cells, 2022, 11, 1257.	1.8	6
13	Bioengineered Hierarchical Bonelike Compartmentalized Microconstructs Using Nanogrooved Microdiscs. ACS Applied Materials & Interfaces, 2022, 14, 19116-19128.	4.0	8
14	Bioengineering the human bone marrow microenvironment in liquefied compartments: A promising approach for the recapitulation of osteovascular niches. Acta Biomaterialia, 2022, 149, 167-178.	4.1	5
15	Advances in bioengineering pancreatic tumor-stroma physiomimetic Biomodels. Biomaterials, 2022, 287, 121653.	5.7	7
16	Stimuliâ€Responsive Nanocomposite Hydrogels for Biomedical Applications. Advanced Functional Materials, 2021, 31, 2005941.	7.8	234
17	Strategies for re-vascularization and promotion of angiogenesis in trauma and disease. Biomaterials, 2021, 269, 120628.	5.7	32
18	Recent advances in the design of implantable insulin secreting heterocellular islet organoids. Biomaterials, 2021, 269, 120627.	5.7	24

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19	Cell-based Soft Biomaterials. RSC Soft Matter, 2021, , 720-749.	0.2	0
20	Proteinaceous Hydrogels for Bioengineering Advanced 3D Tumor Models. Advanced Science, 2021, 8, 2003129.	5.6	41
21	Fabrication of Quasiâ€2D Shapeâ€Tailored Microparticles using Wettability Contrastâ€Based Platforms. Advanced Materials, 2021, 33, e2007695.	11.1	11
22	Chemical modification strategies to prepare advanced protein-based biomaterials. Biomaterials and Biosystems, 2021, 1, 100010.	1.0	7
23	Oneâ€Step Allâ€Aqueous Interfacial Assembly of Robust Membranes for Longâ€Term Encapsulation and Culture of Adherent Stem/Stromal Cells. Advanced Healthcare Materials, 2021, 10, e2100266.	3.9	13
24	Screening of dual chemo-photothermal cellular nanotherapies in organotypic breast cancer 3D spheroids. Journal of Controlled Release, 2021, 331, 85-102.	4.8	19
25	Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials. Advanced Functional Materials, 2021, 31, 2009619.	7.8	14
26	Minimalist Tissue Engineering Approaches Using Low Materialâ€Based Bioengineered Systems. Advanced Healthcare Materials, 2021, 10, e2002110.	3.9	16
27	Synthesis and characterization of scaffolds produced under mild conditions based on oxidized cashew gums and carboxyethyl chitosan. International Journal of Biological Macromolecules, 2021, 176, 26-36.	3.6	12
28	GelMA/bioactive silica nanocomposite bioinks for stem cell osteogenic differentiation. Biofabrication, 2021, 13, 035012.	3.7	48
29	The Therapeutic Potential of Hematopoietic Stem Cells in Bone Regeneration. Tissue Engineering - Part B: Reviews, 2021, , .	2.5	4
30	Double network laminarin-boronic/alginate dynamic bioink for 3D bioprinting cell-laden constructs. Biofabrication, 2021, 13, 035045.	3.7	33
31	Metabolomic Applications in Stem Cell Research: a Review. Stem Cell Reviews and Reports, 2021, 17, 2003-2024.	1.7	9
32	Engineering Strategies for Allogeneic Solid Tissue Acceptance. Trends in Molecular Medicine, 2021, 27, 572-587.	3.5	2
33	Bioinstructive Layer-by-Layer-Coated Customizable 3D Printed Perfusable Microchannels Embedded in Photocrosslinkable Hydrogels for Vascular Tissue Engineering. Biomolecules, 2021, 11, 863.	1.8	25
34	Recent Progress on Polysaccharide-Based Hydrogels for Controlled Delivery of Therapeutic Biomolecules. ACS Biomaterials Science and Engineering, 2021, 7, 4102-4127.	2.6	64
35	Natural Origin Biomaterials for 4D Bioprinting Tissueâ€Like Constructs. Advanced Materials Technologies, 2021, 6, 2100168.	3.0	27
36	Design of Proteinâ€Based Liquefied Cellâ€Laden Capsules with Bioinspired Adhesion for Tissue Engineering. Advanced Healthcare Materials, 2021, 10, e2100782.	3.9	6

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37	Organotypic 3D decellularized matrix tumor spheroids for high-throughput drug screening. Biomaterials, 2021, 275, 120983.	5.7	25
38	An Immunomodulatory Miniaturized 3D Screening Platform Using Liquefied Capsules. Advanced Healthcare Materials, 2021, 10, 2001993.	3.9	10
39	New insights into the biomimetic design and biomedical applications of bioengineered bone microenvironments. APL Bioengineering, 2021, 5, 041507.	3.3	12
40	Engineering mammalian living materials towards clinically relevant therapeutics. EBioMedicine, 2021, 74, 103717.	2.7	8
41	Bioactive silica nanoparticles with calcium and phosphate for single dose osteogenic differentiation. Materials Science and Engineering C, 2020, 107, 110348.	3.8	19
42	Dynamic microfactories co-encapsulating osteoblastic and adipose-derived stromal cells for the biofabrication of bone units. Biofabrication, 2020, 12, 015005.	3.7	33
43	Advanced Bottomâ€Up Engineering of Living Architectures. Advanced Materials, 2020, 32, e1903975.	11.1	127
44	Multi-layer pre-vascularized magnetic cell sheets for bone regeneration. Biomaterials, 2020, 231, 119664.	5.7	62
45	Oneâ€Step Rapid Fabrication of Cellâ€Only Living Fibers. Advanced Materials, 2020, 32, 1906305.	11.1	20
46	Geometrically Controlled Liquefied Capsules for Modular Tissue Engineering Strategies. Advanced Biology, 2020, 4, e2000127.	3.0	12
47	Bioinspired biomaterials to develop cell-rich spherical microtissues for 3D in vitro tumor modeling. , 2020, , 43-65.		3
48	Dynamic Electrophoretic Assembly of Metalâ€“Phenolic Films: Accelerated Formation and Cytocompatible Detachment. Chemistry of Materials, 2020, 32, 7746-7753.	3.2	13
49	Efficient Singleâ€Dose Induction of Osteogenic Differentiation of Stem Cells Using Multiâ€Bioactive Hybrid Nanocarriers. Advanced Biology, 2020, 4, e2000123.	3.0	7
50	Leachableâ€Free Fabrication of Hydrogel Foams Enabling Homogeneous Viability of Encapsulated Cells in Largeâ€Volume Constructs. Advanced Healthcare Materials, 2020, 9, e2000543.	3.9	7
51	Osteogenic Differentiation: Efficient Singleâ€Dose Induction of Osteogenic Differentiation of Stem Cells Using Multiâ€Bioactive Hybrid Nanocarriers (Adv. Biosys. 11/2020). Advanced Biology, 2020, 4, 2070112.	3.0	0
52	Nanomaterials for Biomedical Applications. Biotechnology Journal, 2020, 15, e2000574.	1.8	6
53	Modular Functionalization of Laminarin to Create Value-Added Naturally Derived Macromolecules. Journal of the American Chemical Society, 2020, 142, 19689-19697.	6.6	26
54	Bone Tissue Disorders: Healing Through Coordination Chemistry. Chemistry - A European Journal, 2020, 26, 15416-15437.	1.7	5

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55	Injectable Biomaterials for Dental Tissue Regeneration. International Journal of Molecular Sciences, 2020, 21, 3442.	1.8	47
56	Self-Assembled Bioactive Colloidal Gels as Injectable Multiparticle Shedding Platforms. ACS Applied Materials & Interfaces, 2020, 12, 31282-31291.	4.0	15
57	Enzymatically degradable, starch-based layer-by-layer films: application to cytocompatible single-cell nanoencapsulation. Soft Matter, 2020, 16, 6063-6071.	1.2	15
58	Thin Silicaâ€Based Microsheets with Controlled Geometry. European Journal of Inorganic Chemistry, 2020, 2020, 1574-1578.	1.0	1
59	Cell Behavior within Nanogrooved Sandwich Culture Systems. Small, 2020, 16, e2001975.	5.2	15
60	Cell Encapsulation Systems Toward Modular Tissue Regeneration: From Immunoisolation to Multifunctional Devices. Advanced Functional Materials, 2020, 30, 1908061.	7.8	39
61	Responsive laminarin-boronic acid self-healing hydrogels for biomedical applications. Polymer Journal, 2020, 52, 997-1006.	1.3	31
62	Freeform 3D printing using a continuous viscoelastic supporting matrix. Biofabrication, 2020, 12, 035017.	3.7	49
63	Mechanochemical Patternable ECMâ€Mimetic Hydrogels for Programmed Cell Orientation. Advanced Healthcare Materials, 2020, 9, e1901860.	3.9	29
64	Human Platelet Lysatesâ€Based Hydrogels: A Novel Personalized 3D Platform for Spheroid Invasion Assessment. Advanced Science, 2020, 7, 1902398.	5.6	31
65	Nanogrooved microdiscs for bottom-up modulation of osteogenic differentiation. Nanoscale, 2019, 11, 16214-16221.	2.8	23
66	Screening of perfused combinatorial 3D microenvironments for cell culture. Acta Biomaterialia, 2019, 96, 222-236.	4.1	8
67	BioactÄ±ve Glassâ€Polymer Nanocomposites for Bone TÄ±ssue Regeneration ApplicatÄ±ons: A RevÄ±ew. Advanced Engineering Materials, 2019, 21, 1900287.	1.6	33
68	Liquefied Microcapsules as Dualâ€Microcarriers for 3D+3D Bottomâ€Up Tissue Engineering. Advanced Healthcare Materials, 2019, 8, e1901221.	3.9	30
69	Oxidized Cashew Gum Scaffolds for Tissue Engineering. Macromolecular Materials and Engineering, 2019, 304, 1800574.	1.7	23
70	Surface Microâ€and Nanoengineering: Applications of Layerâ€byâ€Layer Technology as a Versatile Tool to Control Cellular Behavior. Small, 2019, 15, e1901228.	5.2	42
71	In-air production of 3D co-culture tumor spheroid hydrogels for expedited drug screening. Acta Biomaterialia, 2019, 94, 392-409.	4.1	72
72	Antibacterial free-standing polysaccharide composite films inspired by the sea. International Journal of Biological Macromolecules, 2019, 133, 933-944.	3.6	19

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73	Microparticles in Contact with Cells: From Carriers to Multifunctional Tissue Modulators. Trends in Biotechnology, 2019, 37, 1011-1028.	4.9	72
74	Recent advances on open fluidic systems for biomedical applications: A review. Materials Science and Engineering C, 2019, 97, 851-863.	3.8	56
75	Threeâ€Dimensional Osteosarcoma Models for Advancing Drug Discovery and Development. Advanced Therapeutics, 2019, 2, 1800108.	1.6	16
76	Sequentially Moldable and Bondable Four-Dimensional Hydrogels Compatible with Cell Encapsulation. Biomacromolecules, 2018, 19, 2742-2749.	2.6	17
77	Cell-Based Microarrays Using Superhydrophobic Platforms Patterned with Wettable Regions. Methods in Molecular Biology, 2018, 1771, 11-26.	0.4	2
78	Strategic Advances in Formation of Cellâ€inâ€Shell Structures: From Syntheses to Applications. Advanced Materials, 2018, 30, e1706063.	11.1	102
79	Adhesive free-standing multilayer films containing sulfated levan for biomedical applications. Acta Biomaterialia, 2018, 69, 183-195.	4.1	55
80	Stimuli-responsive nanocarriers for delivery of bone therapeutics â€“ Barriers and progresses. Journal of Controlled Release, 2018, 273, 51-67.	4.8	84
81	The effects of platelet lysate patches on the activity of tendon-derived cells. Acta Biomaterialia, 2018, 68, 29-40.	4.1	22
82	Coculture of Spheroids/2D Cell Layers Using a Miniaturized Patterned Platform as a Versatile Method to Produce Scaffoldâ€Free Tissue Engineering Building Blocks. Advanced Biology, 2018, 2, 1700069.	3.0	15
83	Gellan gumâ€hydroxyapatite composite spongyâ€like hydrogels for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2018, 106, 479-490.	2.1	50
84	Iron Gall Ink Revisited: In Situ Oxidation of Fe(II)â€“Tannin Complex for Fluidicâ€Interface Engineering. Advanced Materials, 2018, 30, e1805091.	11.1	65
85	Photopolymerizable Platelet Lysate Hydrogels for Customizable 3D Cell Culture Platforms. Advanced Healthcare Materials, 2018, 7, e1800849.	3.9	38
86	Bioactive Hydrogel Marbles. Scientific Reports, 2018, 8, 15215.	1.6	12
87	Bone physiology as inspiration for tissue regenerative therapies. Biomaterials, 2018, 185, 240-275.	5.7	259
88	Injectable gellan-gum/hydroxyapatite-based bilayered hydrogel composites for osteochondral tissue regeneration. Applied Materials Today, 2018, 12, 309-321.	2.3	38
89	Design Principles and Multifunctionality in Cell Encapsulation Systems for Tissue Regeneration. Advanced Healthcare Materials, 2018, 7, e1701444.	3.9	17
90	Tuneable spheroidal hydrogel particles for cell and drug encapsulation. Soft Matter, 2018, 14, 5622-5627.	1.2	21

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91	Strontium-Doped Bioactive Glass Nanoparticles in Osteogenic Commitment. ACS Applied Materials & Interfaces, 2018, 10, 23311-23320.	4.0	55
92	Solvent-Free Strategy Yields Size and Shape-Uniform Capsules. Journal of the American Chemical Society, 2017, 139, 1057-1060.	6.6	20
93	Flexible method for fabricating protein patterns on superhydrophobic platforms controlled by magnetic field. Biomaterials Science, 2017, 5, 408-411.	2.6	12
94	The influence of surface modified poly(<scp>l</scp>-lactic acid) films on the differentiation of human monocytes into macrophages. Biomaterials Science, 2017, 5, 551-560.	2.6	24
95	In vivo osteogenic differentiation of stem cells inside compartmentalized capsules loaded with co-cultured endothelial cells. Acta Biomaterialia, 2017, 53, 483-494.	4.1	29
96	Nanoengineering Hybrid Supramolecular Multilayered Biomaterials Using Polysaccharides and Selfâ€Assembling Peptide Amphiphiles. Advanced Functional Materials, 2017, 27, 1605122.	7.8	53
97	Biomimetic click assembled multilayer coatings exhibiting responsive properties. Materials Today Chemistry, 2017, 4, 150-163.	1.7	15
98	Injectable Hyaluronic Acid Hydrogels Enriched with Platelet Lysate as a Cryostable Off-the-Shelf System for Cell-Based Therapies. Regenerative Engineering and Translational Medicine, 2017, 3, 53-69.	1.6	15
99	Bioinspired Ultratough Hydrogel with Fast Recovery, Selfâ€Healing, Injectability and Cytocompatibility. Advanced Materials, 2017, 29, 1700759.	11.1	148
100	Screening of Nanocomposite Scaffolds Arrays Using Superhydrophobicâ€Wettable Micropatterns. Advanced Functional Materials, 2017, 27, 1701219.	7.8	16
101	Ionic liquids in the processing and chemical modification of chitin and chitosan for biomedical applications. Green Chemistry, 2017, 19, 1208-1220.	4.6	190
102	Open Fluidics: A Cell Culture Flow System Developed Over Wettability Contrastâ€Based Chips. Advanced Healthcare Materials, 2017, 6, 1700638.	3.9	10
103	Mesenchymal Stem Cells Relevance in Multicellular Bioengineered 3D In Vitro Tumor Models. Biotechnology Journal, 2017, 12, 1700079.	1.8	10
104	<sup />Engineering Membranes for Bone Regeneration. Tissue Engineering - Part A, 2017, 23, 1502-1533.	1.6	15
105	The potential of cashew gum functionalization as building blocks for layer-by-layer films. Carbohydrate Polymers, 2017, 174, 849-857.	5.1	19
106	Microengineered Multicomponent Hydrogel Fibers: Combining Polyelectrolyte Complexation and Microfluidics. ACS Biomaterials Science and Engineering, 2017, 3, 1322-1331.	2.6	45
107	Multilayered Films Produced by Layer-by-Layer Assembly of Chitosan and Alginate as a Potential Platform for the Formation of Human Adipose-Derived Stem Cell aggregates. Polymers, 2017, 9, 440.	2.0	19
108	Biomimetic Materials: Smart Polymer Surfaces for Tissue Engineering. , 2017, , 214-228.		0

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109	Marine Origin Polysaccharides in Drug Delivery Systems. Marine Drugs, 2016, 14, 34.	2.2	205
110	Highâ€Throughput Topographic, Mechanical, and Biological Screening of Multilayer Films Containing Musselâ€Inspired Biopolymers. Advanced Functional Materials, 2016, 26, 2745-2755.	7.8	49
111	Cell Surface Engineering to Control Cellular Interactions. ChemNanoMat, 2016, 2, 376-384.	1.5	65
112	Coating Strategies Using Layerâ€byâ€layer Deposition for Cell Encapsulation. Chemistry - an Asian Journal, 2016, 11, 1753-1764.	1.7	90
113	Design Advances in Particulate Systems for Biomedical Applications. Advanced Healthcare Materials, 2016, 5, 1687-1723.	3.9	19
114	Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobicâ€Hydrophilic Micropatterns. Advanced Materials, 2016, 28, 7613-7619.	11.1	83
115	Autonomous osteogenic differentiation of hASCs encapsulated in methacrylated gellan-gum hydrogels. Acta Biomaterialia, 2016, 41, 119-132.	4.1	47
116	Engineering Enriched Microenvironments with Gradients of Platelet Lysate in Hydrogel Fibers. Biomacromolecules, 2016, 17, 1985-1997.	2.6	18
117	Chitosan/Chondroitin Sulfate Membranes Produced by Polyelectrolyte Complexation for Cartilage Engineering. Biomacromolecules, 2016, 17, 2178-2188.	2.6	62
118	3D Cell Culture: Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobic-Hydrophilic Micropatterns (Adv. Mater. 35/2016). Advanced Materials, 2016, 28, 7552-7552.	11.1	1
119	Biomimetic Extracellular Environment Based on Natural Origin Polyelectrolyte Multilayers. Small, 2016, 12, 4308-4342.	5.2	100
120	Bioplotting of a bioactive alginate dialdehyde-gelatin composite hydrogel containing bioactive glass nanoparticles. Biofabrication, 2016, 8, 035005.	3.7	86
121	Semipermeable Capsules Wrapping a Multifunctional and Self-regulated Co-culture Microenvironment for Osteogenic Differentiation. Scientific Reports, 2016, 6, 21883.	1.6	62
122	Multilayered Hollow Tubes as Blood Vessel Substitutes. ACS Biomaterials Science and Engineering, 2016, 2, 2304-2314.	2.6	19
123	A Closed Chondromimetic Environment within Magneticâ€Responsive Liquified Capsules Encapsulating Stem Cells and Collagen II/TGFâ€î²3 Microparticles. Advanced Healthcare Materials, 2016, 5, 1346-1355.	3.9	28
124	BSA/HSA ratio modulates the properties of Ca2+-induced cold gelation scaffolds. International Journal of Biological Macromolecules, 2016, 89, 535-544.	3.6	9
125	Fucoidan Hydrogels Photo-Cross-Linked with Visible Radiation As Matrices for Cell Culture. ACS Biomaterials Science and Engineering, 2016, 2, 1151-1161.	2.6	41
126	Photo-Cross-Linked Laminarin-Based Hydrogels for Biomedical Applications. Biomacromolecules, 2016, 17, 1602-1609.	2.6	63

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127	Fabrication and characterization of Eri silk fibers-based sponges for biomedical application. Acta Biomaterialia, 2016, 32, 178-189.	4.1	52
128	Synthesis and characterization of bioactive biodegradable chitosan composite spheres with shape memory capability. Journal of Non-Crystalline Solids, 2016, 432, 158-166.	1.5	31
129	Towards the design of 3D multiscale instructive tissue engineering constructs: Current approaches and trends. Biotechnology Advances, 2015, 33, 842-855.	6.0	49
130	Micro-/nano-structured superhydrophobic surfaces in the biomedical field: part I: basic concepts and biomimetic approaches. Nanomedicine, 2015, 10, 103-119.	1.7	63
131	Layer-by-layer assembled cell instructive nanocoatings containing platelet lysate. Biomaterials, 2015, 48, 56-65.	5.7	48
132	Myoconductive and osteoinductive free-standing polysaccharide membranes. Acta Biomaterialia, 2015, 15, 139-149.	4.1	57
133	Chondrogenic potential of injectableâ€‰‰Î² -carrageenan hydrogel with encapsulated adipose stem cells for cartilage tissue-engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 550-563.	1.3	97
134	A novel hanging spherical drop system for the generation of cellular spheroids and high throughput combinatorial drug screening. Biomaterials Science, 2015, 3, 581-585.	2.6	70
135	Micro/nano-structured superhydrophobic surfaces in the biomedical field: part II: applications overview. Nanomedicine, 2015, 10, 271-297.	1.7	81
136	Chitosan/bioactive glass nanoparticles scaffolds with shape memory properties. Carbohydrate Polymers, 2015, 123, 39-45.	5.1	72
137	Magnetically Labeled Cells with Surfaceâ€Modified Fe₃O₄ Spherical and Rodâ€Shaped Magnetic Nanoparticles for Tissue Engineering Applications. Advanced Healthcare Materials, 2015, 4, 883-891.	3.9	35
138	Extremely strong and tough hydrogels as prospective candidates for tissue repair â€“ A review. European Polymer Journal, 2015, 72, 344-364.	2.6	129
139	Drug nano-reservoirs synthesized using layer-by-layer technologies. Biotechnology Advances, 2015, 33, 1310-1326.	6.0	67
140	Natural assembly of platelet lysate-loaded nanocarriers into enriched 3D hydrogels for cartilage regeneration. Acta Biomaterialia, 2015, 19, 56-65.	4.1	42
141	Combinatorial Effect of Silicon and Calcium Release from Starch-Based Scaffolds on Osteogenic Differentiation of Human Adipose Stem Cells. ACS Biomaterials Science and Engineering, 2015, 1, 760-770.	2.6	13
142	Chitosanâ€“alginate multilayered films with gradients of physicochemical cues. Journal of Materials Chemistry B, 2015, 3, 4555-4568.	2.9	42
143	pH Responsiveness of Multilayered Films and Membranes Made of Polysaccharides. Langmuir, 2015, 31, 11318-11328.	1.6	58
144	Compact Saloplastic Membranes of Natural Polysaccharides for Soft Tissue Engineering. Chemistry of Materials, 2015, 27, 7490-7502.	3.2	53

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145	Highly robust hydrogels via a fast, simple and cytocompatible dual crosslinking-based process. Chemical Communications, 2015, 51, 15673-15676.	2.2	30
146	Injectable PEGylated fibrinogen cell-laden microparticles made with a continuous solvent- and oil-free preparation method. Acta Biomaterialia, 2015, 13, 78-87.	4.1	13
147	Designing biomaterials for tissue engineering based on the deconstruction of the native cellular environment. Materials Letters, 2015, 141, 198-202.	1.3	29
148	Bilayered silk/silk-nanoCaP scaffolds for osteochondral tissue engineering: In vitro and in vivo assessment of biological performance. Acta Biomaterialia, 2015, 12, 227-241.	4.1	140
149	Compartmentalized bioencapsulated liquefied 3D macro-construct by perfusion-based layer-by-layer technique. RSC Advances, 2015, 5, 2511-2516.	1.7	13
150	Fast and Mild Strategy, Using Superhydrophobic Surfaces, to Produce Collagen/Platelet Lysate Gel Beads for Skin Regeneration. Stem Cell Reviews and Reports, 2015, 11, 161-179.	5.6	28
151	Platelet lysate membranes as new autologous templates for tissue engineering applications. Inflammation and Regeneration, 2014, 34, 033-044.	1.5	28
152	Microfluidic Production of Perfluorocarbon-Alginate Coreâ€“Shell Microparticles for Ultrasound Therapeutic Applications. Langmuir, 2014, 30, 12391-12399.	1.6	37
153	Nanostructured Hollow Tubes Based on Chitosan and Alginate Multilayers. Advanced Healthcare Materials, 2014, 3, 433-440.	3.9	48
154	Chitosan/chondroitin sulfate multilayers as supports for calcium phosphate biomineralization. Materials Letters, 2014, 121, 62-65.	1.3	29
155	Enhanced Cell Affinity of Chitosan Membranes Mediated by Superficial Cross-Linking: A Straightforward Method Attainable by Standard Laboratory Procedures. Biomacromolecules, 2014, 15, 291-301.	2.6	18
156	Polyelectrolyte multilayered assemblies in biomedical technologies. Chemical Society Reviews, 2014, 43, 3453.	18.7	262
157	In Vivo High-Content Evaluation of Three-Dimensional Scaffolds Biocompatibility. Tissue Engineering - Part C: Methods, 2014, 20, 851-864.	1.1	26
158	Superhydrophobic Chips for Cell Spheroids High-Throughput Generation and Drug Screening. ACS Applied Materials & Interfaces, 2014, 6, 9488-9495.	4.0	91
159	Sequential ionic and thermogelation of chitosan spherical hydrogels prepared using superhydrophobic surfaces to immobilize cells and drugs. Journal of Bioactive and Compatible Polymers, 2014, 29, 50-65.	0.8	18
160	Functionalized Microparticles Producing Scaffolds in Combination with Cells. Advanced Functional Materials, 2014, 24, 1391-1400.	7.8	39
161	High-throughput screening for integrative biomaterials design: exploring advances and new trends. Trends in Biotechnology, 2014, 32, 627-636.	4.9	49
162	Layerâ€byâ€Layer Assembly of Lightâ€Responsive Polymeric Multilayer Systems. Advanced Functional Materials, 2014, 24, 5624-5648.	7.8	106

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163	Natural polymers for the microencapsulation of cells. Journal of the Royal Society Interface, 2014, 11, 20140817.	1.5	480
164	A combinatorial study of nanocomposite hydrogels: on-chip mechanical/viscoelastic and pre-osteoblast interaction characterization. Journal of Materials Chemistry B, 2014, 2, 5627.	2.9	20
165	Tailored Freestanding Multilayered Membranes Based on Chitosan and Alginate. Biomacromolecules, 2014, 15, 3817-3826.	2.6	88
166	Biocompatible Polymeric Microparticles Produced by a Simple Biomimetic Approach. Langmuir, 2014, 30, 4535-4539.	1.6	30
167	Molecular Interactions Driving the Layer-by-Layer Assembly of Multilayers. Chemical Reviews, 2014, 114, 8883-8942.	23.0	697
168	Magnetic composite biomaterials for tissue engineering. Biomaterials Science, 2014, 2, 812-818.	2.6	67
169	Engineering Biomolecular Microenvironments for Cell Instructive Biomaterials. Advanced Healthcare Materials, 2014, 3, 797-810.	3.9	71
170	Cellular uptake of multilayered capsules produced with natural and genetically engineered biomimetic macromolecules. Acta Biomaterialia, 2014, 10, 2653-2662.	4.1	29
171	Biomimetic Miniaturized Platform Able to Sustain Arrays of Liquid Droplets for Highâ€Throughput Combinatorial Tests. Advanced Functional Materials, 2014, 24, 5096-5103.	7.8	58
172	Bone marrow stromal cells on a three-dimensional bioactive fiber mesh undergo osteogenic differentiation in the absence of osteogenic media supplements: The effect of silanol groups. Acta Biomaterialia, 2014, 10, 4175-4185.	4.1	16
173	Bio-inspired Aloe vera sponges for biomedical applications. Carbohydrate Polymers, 2014, 112, 264-270.	5.1	33
174	Cell interactions with superhydrophilic and superhydrophobic surfaces. Journal of Adhesion Science and Technology, 2014, 28, 843-863.	1.4	123
175	BIOMIMETIC SUPERHYDROPHOBIC SURFACES. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 153-180.	0.1	1
176	Synthesis and characterization of sensitive hydrogels based on semiâ€interpenetrated networks of poly[2â€ethylâ€(2â€pyrrolidone) methacrylate] and hyaluronic acid. Journal of Biomedical Materials Research - Part A, 2013, 101A, 157-166.	2.1	12
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