JoÃ£o F Mano

List of Publications by Year
in descending order

755 papers	41,878 citations	2093 100 h-index	5965 160 g-index
808 all docs	808 docs citations	808 times ranked	37538 citing authors

#	Article	IF	Citations
1	Natural origin biodegradable systems in tissue engineering and regenerative medicine: present status and some moving trends. Journal of the Royal Society Interface, 2007, 4, 999-1030.	1.5	969
2	Molecular Interactions Driving the Layer-by-Layer Assembly of Multilayers. Chemical Reviews, 2014, 114, 8883-8942.	23.0	697
3	Chitosan derivatives obtained by chemical modifications for biomedical and environmental applications. International Journal of Biological Macromolecules, 2008, 43, 401-414.	3.6	672
4	Stimuliâ€Responsive Polymeric Systems for Biomedical Applications. Advanced Engineering Materials, 2008, 10, 515-527.	1.6	579
5	Graft copolymerized chitosanâ€"present status and applications. Carbohydrate Polymers, 2005, 62, 142-158.	5.1	550
6	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.	4.1	487
7	Natural polymers for the microencapsulation of cells. Journal of the Royal Society Interface, 2014, 11, 20140817.	1.5	480
8	Polymer/bioactive glass nanocomposites for biomedical applications: A review. Composites Science and Technology, 2010, 70, 1764-1776.	3.8	451
9	Chitosan-Based Particles as Controlled Drug Delivery Systems. Drug Delivery, 2004, 12, 41-57.	2.5	431
10	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.	5.7	411
11	FTIR AND DSC STUDIES OF MECHANICALLY DEFORMED Î²-PVDF FILMS. Journal of Macromolecular Science - Physics, 2001, 40, 517-527.	0.4	386
12	Bioinert, biodegradable and injectable polymeric matrix composites for hard tissue replacement: state of the art and recent developments. Composites Science and Technology, 2004, 64, 789-817.	3.8	374
13	Stimuli-Responsive Hydrogels Based on Polysaccharides Incorporated with Thermo-Responsive Polymers as Novel Biomaterials. Macromolecular Bioscience, 2006, 6, 991-1008.	2.1	319
14	Starch-based biodegradable hydrogels with potential biomedical applications as drug delivery systems. Biomaterials, 2002, 23, 1955-1966.	5.7	311
15	Thermal properties of thermoplastic starch/synthetic polymer blends with potential biomedical applicability. Journal of Materials Science: Materials in Medicine, 2003, 14, 127-135.	1.7	306
16	Electrically Conductive Chitosan/Carbon Scaffolds for Cardiac Tissue Engineering. Biomacromolecules, 2014, 15, 635-643.	2.6	306
17	Genipinâ€crossâ€linked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2010, 95A, 465-475.	2.1	291
18	Smart thermoresponsive coatings and surfaces for tissue engineering: switching cell-material boundaries. Trends in Biotechnology, 2007, 25, 577-583.	4.9	289

#	Article	IF	Citations
19	Controlling Cell Behavior Through the Design of Polymer Surfaces. Small, 2010, 6, 2208-2220.	5.2	289
20	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. Acta Biomaterialia, 2012, 8, 289-301.	4.1	276
21	Polyelectrolyte multilayered assemblies in biomedical technologies. Chemical Society Reviews, 2014, 43, 3453.	18.7	262
22	Bone physiology as inspiration for tissue regenerative therapies. Biomaterials, 2018, 185, 240-275.	5.7	259
23	Novel Genipin-Cross-Linked Chitosan/Silk Fibroin Sponges for Cartilage Engineering Strategies. Biomacromolecules, 2008, 9, 2764-2774.	2.6	240
24	Stimuliâ€Responsive Nanocomposite Hydrogels for Biomedical Applications. Advanced Functional Materials, 2021, 31, 2005941.	7.8	234
25	Natural and genetically engineered proteins for tissue engineering. Progress in Polymer Science, 2012, 37, 1-17.	11.8	227
26	Production and Characterization of Chitosan Fibers and 3-D Fiber Mesh Scaffolds for Tissue Engineering Applications. Macromolecular Bioscience, 2004, 4, 811-819.	2.1	224
27	Properties of melt processed chitosan and aliphatic polyester blends. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 403, 57-68.	2.6	224
28	Bionanocomposites from lignocellulosic resources: Properties, applications and future trends for their use in the biomedical field. Progress in Polymer Science, 2013, 38, 1415-1441.	11.8	224
29	Osteochondral defects: present situation and tissue engineering approaches. Journal of Tissue Engineering and Regenerative Medicine, 2007, 1, 261-273.	1.3	209
30	Chitosan/bioactive glass nanoparticle composite membranes for periodontal regeneration. Acta Biomaterialia, 2012, 8, 4173-4180.	4.1	209
31	The dynamic effect of pipe-wall viscoelasticity in hydraulic transients. Part IIâ€"model development, calibration and verification. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 56-70.	0.7	208
32	Extracellular vesicles, exosomes and shedding vesicles in regenerative medicine â€" a new paradigm for tissue repair. Biomaterials Science, 2018, 6, 60-78.	2.6	207
33	Marine Origin Polysaccharides in Drug Delivery Systems. Marine Drugs, 2016, 14, 34.	2.2	205
34	Chitosan/Poly(É›-caprolactone) blend scaffolds for cartilage repair. Biomaterials, 2011, 32, 1068-1079.	5.7	204
35	Gellan gum-based hydrogels for intervertebral disc tissue-engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, e97-e107.	1.3	201
36	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.	1.6	193

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37	Ionic liquids in the processing and chemical modification of chitin and chitosan for biomedical applications. Green Chemistry, 2017, 19, 1208-1220.	4.6	190
38	Gellan gum: A new biomaterial for cartilage tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2010, 93A, 852-863.	2.1	185
39	Chitosan derivatives bearing cyclodextrin cavitiesas novel adsorbent matrices. Carbohydrate Polymers, 2006, 63, 153-166.	5.1	177
40	Bioinspired Degradable Substrates with Extreme Wettability Properties. Advanced Materials, 2009, 21, 1830-1834.	11.1	174
41	Materials of marine origin: a review on polymers and ceramics of biomedical interest. International Materials Reviews, 2012, 57, 276-306.	9.4	173
42	Development of Injectable Hyaluronic Acid/Cellulose Nanocrystals Bionanocomposite Hydrogels for Tissue Engineering Applications. Bioconjugate Chemistry, 2015, 26, 1571-1581.	1.8	172
43	Dendrimers and derivatives as a potential therapeutic tool in regenerative medicine strategiesâ€"A review. Progress in Polymer Science, 2010, 35, 1163-1194.	11.8	171
44	Carrageenan-Based Hydrogels for the Controlled Delivery of PDGF-BB in Bone Tissue Engineering Applications. Biomacromolecules, 2009, 10, 1392-1401.	2.6	165
45	Dissolution enhancement of active pharmaceutical ingredients by therapeutic deep eutectic systems. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 98, 57-66.	2.0	164
46	Nanostructured Polymeric Coatings Based on Chitosan and Dopamineâ€Modified Hyaluronic Acid for Biomedical Applications. Small, 2014, 10, 2459-2469.	5.2	163
47	Chemical modification of starch based biodegradable polymeric blends: effects on water uptake, degradation behaviour and mechanical properties. Polymer Degradation and Stability, 2000, 70, 161-170.	2.7	162
48	Design of spherically structured 3D in vitro tumor models -Advances and prospects. Acta Biomaterialia, 2018, 75, 11-34.	4.1	155
49	Status and future scope of plant-based green hydrogels in biomedical engineering. Applied Materials Today, 2019, 16, 213-246.	2.3	154
50	New partially degradable and bioactive acrylic bone cements based on starch blends and ceramic fillers. Biomaterials, 2002, 23, 1883-1895.	5.7	152
51	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. Biomatter, 2012, 2, 278-289.	2.6	151
52	Drug Release of pH/Temperature-Responsive Calcium Alginate/Poly(N-isopropylacrylamide) Semi-IPN Beads. Macromolecular Bioscience, 2006, 6, 358-363.	2.1	150
53	Development of new chitosan/carrageenan nanoparticles for drug delivery applications. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1265-1272.	2.1	150
54	Development of bioactive and biodegradable chitosan-based injectable systems containing bioactive glass nanoparticles. Acta Biomaterialia, 2009, 5, 115-123.	4.1	150

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55	Chitosan Scaffolds Containing Hyaluronic Acid for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2011, 17, 717-730.	1.1	149
56	Preparation and in vitro characterization of scaffolds of poly(l-lactic acid) containing bioactive glass ceramic nanoparticles. Acta Biomaterialia, 2008, 4, 1297-1306.	4.1	148
57	Bioinspired Ultratough Hydrogel with Fast Recovery, Selfâ€Healing, Injectability and Cytocompatibility. Advanced Materials, 2017, 29, 1700759.	11.1	148
58	Glass transition and structural relaxation in semi-crystalline poly(ethylene terephthalate): a DSC study. Polymer, 2002, 43, 4111-4122.	1.8	146
59	Preparation and <i>in vitro</i> characterization of novel bioactive glass ceramic nanoparticles. Journal of Biomedical Materials Research - Part A, 2009, 88A, 304-313.	2.1	144
60	Designing biomaterials based on biomineralization of bone. Journal of Materials Chemistry, 2010, 20, 2911.	6.7	144
61	Interactions between cells or proteins and surfaces exhibiting extreme wettabilities. Soft Matter, 2013, 9, 2985.	1.2	143
62	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.	1.6	142
63	Polymerâ€based microparticles in tissue engineering and regenerative medicine. Biotechnology Progress, 2011, 27, 897-912.	1.3	140
64	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
65	Glass transition dynamics and structural relaxation of PLLA studied by DSC: Influence of crystallinity. Polymer, 2005, 46, 8258-8265.	1.8	139
66	Mobile amorphous phase fragility in semi-crystalline polymers: Comparison of PET and PLLA. Polymer, 2007, 48, 1012-1019.	1.8	138
67	Morphological Contributions to Glass Transition in Poly(l-lactic acid). Macromolecules, 2005, 38, 4712-4718.	2.2	137
68	Recent progresses in the adsorption of organic, inorganic, and gas compounds by MCM-41-based mesoporous materials. Microporous and Mesoporous Materials, 2020, 291, 109698.	2.2	132
69	Plasma Surface Modification of Chitosan Membranes: Characterization and Preliminary Cell Response Studies. Macromolecular Bioscience, 2008, 8, 568-576.	2.1	131
70	The osteogenic differentiation of rat bone marrow stromal cells cultured with dexamethasone-loaded carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles. Biomaterials, 2009, 30, 804-813.	5.7	131
71	Controlled Release Strategies for Bone, Cartilage, and Osteochondral Engineeringâ€"Part I: Recapitulation of Native Tissue Healing and Variables for the Design of Delivery Systems. Tissue Engineering - Part B: Reviews, 2013, 19, 308-326.	2.5	131
72	Free-Standing Polyelectrolyte Membranes Made of Chitosan and Alginate. Biomacromolecules, 2013, 14, 1653-1660.	2.6	131

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73	Extremely strong and tough hydrogels as prospective candidates for tissue repair â€“ A review. European Polymer Journal, 2015, 72, 344-364.	2.6	129
74	Advanced Bottomâ€Up Engineering of Living Architectures. Advanced Materials, 2020, 32, e1903975.	11.1	127
75	Preparation and characterization of bioactive glass nanoparticles prepared by solâ€“gel for biomedical applications. Nanotechnology, 2011, 22, 494014.	1.3	124
76	Functional nanostructured chitosanâ€“siloxane hybrids. Journal of Materials Chemistry, 2005, 15, 3952.	6.7	123
77	Mineralized structures in nature: Examples and inspirations for the design of new composite materials and biomaterials. Composites Science and Technology, 2010, 70, 1777-1788.	3.8	123
78	Cell interactions with superhydrophilic and superhydrophobic surfaces. Journal of Adhesion Science and Technology, 2014, 28, 843-863.	1.4	123
79	Cold Crystallization of PLLA Studied by Simultaneous SAXS and WAXS. Macromolecular Materials and Engineering, 2004, 289, 910-915.	1.7	121
80	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.	1.6	118
81	An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. Acta Biomaterialia, 2013, 9, 6790-6797.	4.1	118
82	Self Assembling and Crosslinking of Polyelectrolyte Multilayer Films of Chitosan and Alginate Studied by QCM and IR Spectroscopy. Macromolecular Bioscience, 2009, 9, 776-785.	2.1	117
83	Characterization of poled and non-poled Î²-PVDF films using thermal analysis techniques. Thermochimica Acta, 2004, 424, 201-207.	1.2	115
84	Preparation and characterization of poly(L-lactic acid)-chitosan hybrid scaffolds with drug release capability. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 427-434.	1.6	114
85	Green processing of porous chitin structures for biomedical applications combining ionic liquids and supercritical fluid technology. Acta Biomaterialia, 2011, 7, 1166-1172.	4.1	114
86	Preparation of chitosan scaffolds loaded with dexamethasone for tissue engineering applications using supercritical fluid technology. European Polymer Journal, 2009, 45, 141-148.	2.6	111
87	Physical properties and biocompatibility of chitosan/soy blended membranes. Journal of Materials Science: Materials in Medicine, 2005, 16, 575-579.	1.7	108
88	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.	2.5	108
89	Thermal and Thermomechanical Behaviour of Polycaprolactone and Starch/Polycaprolactone Blends for Biomedical Applications. Macromolecular Materials and Engineering, 2005, 290, 792-801.	1.7	107
90	Morphology and miscibility of chitosan/soy protein blended membranes. Carbohydrate Polymers, 2007, 70, 25-31.	5.1	107

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91	Extraction and physico-chemical characterization of a versatile biodegradable polysaccharide obtained from green algae. Carbohydrate Research, 2010, 345, 2194-2200.	1.1	106
92	Layerâ€byâ€Layer Assembly of Lightâ€Responsive Polymeric Multilayer Systems. Advanced Functional Materials, 2014, 24, 5624-5648.	7.8	106
93	Nanostructured 3D Constructs Based on Chitosan and Chondroitin Sulphate Multilayers for Cartilage Tissue Engineering. PLoS ONE, 2013, 8, e55451.	1.1	105
94	Hybrid corkâ€"polymer composites containing sisal fibre: Morphology, effect of the fibre treatment on the mechanical properties and tensile failure prediction. Composite Structures, 2013, 105, 153-162.	3.1	104
95	Viscoelastic Behavior of Poly(methyl methacrylate) Networks with Different Cross-Linking Degrees. Macromolecules, 2004, 37, 3735-3744.	2.2	103
96	Effect of the labelling ratio on the photophysics of fluorescein isothiocyanate (FITC) conjugated to bovine serum albumin. Photochemical and Photobiological Sciences, 2007, 6, 152-158.	1.6	103
97	Two-Dimensional Open Microfluidic Devices by Tuning the Wettability on Patterned Superhydrophobic Polymeric Surface. Applied Physics Express, 2010, 3, 085205.	1.1	103
98	Development and Characterization of a Novel Hybrid Tissue Engineeringâ€"Based Scaffold for Spinal Cord Injury Repair. Tissue Engineering - Part A, 2010, 16, 45-54.	1.6	103
99	Wettability Influences Cell Behavior on Superhydrophobic Surfaces with Different Topographies. Biointerphases, 2012, 7, 46.	0.6	103
100	Biomedical applications of laminarin. Carbohydrate Polymers, 2020, 232, 115774.	5.1	103
101	Potential applications of natural origin polymer-based systems in soft tissue regeneration. Critical Reviews in Biotechnology, 2010, 30, 200-221.	5.1	102
102	Strategic Advances in Formation of Cellâ€inâ€Shell Structures: From Syntheses to Applications. Advanced Materials, 2018, 30, e1706063.	11.1	102
103	Influence of melting conditions on the thermal behaviour of poly(l-lactic acid). European Polymer Journal, 2005, 41, 2335-2342.	2.6	101
104	New poly(Îµ-caprolactone)/chitosan blend fibers for tissue engineering applications. Acta Biomaterialia, 2010, 6, 418-428.	4.1	100
105	Stimuli-responsive chitosan-starch injectable hydrogels combined with encapsulated adipose-derived stromal cells for articular cartilage regeneration. Soft Matter, 2010, 6, 5184.	1.2	100
106	Chemical modification of bioinspired superhydrophobic polystyrene surfaces to control cell attachment/proliferation. Soft Matter, 2011, 7, 8932.	1.2	100
107	Biomimetic Extracellular Environment Based on Natural Origin Polyelectrolyte Multilayers. Small, 2016, 12, 4308-4342.	5.2	100
108	Supercritical fluids in biomedical and tissue engineering applications: a review. International Materials Reviews, 2009, 54, 214-222.	9.4	99

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109	High-throughput evaluation of interactions between biomaterials, proteins and cells using patterned superhydrophobic substrates. Soft Matter, 2011, 7, 4147.	1.2	99
110	Carboxymethyl chitosan-graft-phosphatidylethanolamine: Amphiphilic matrices for controlled drug delivery. Reactive and Functional Polymers, 2007, 67, 43-52.	2.0	98
111	Production methodologies of polymeric and hydrogel particles for drug delivery applications. Expert Opinion on Drug Delivery, 2012, 9, 231-248.	2.4	98
112	Effect of crosslinking in chitosan/aloe vera-based membranes for biomedical applications. Carbohydrate Polymers, 2013, 98, 581-588.	5.1	98
113	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.	1.5	98
114	Biomaterials for drug delivery patches. European Journal of Pharmaceutical Sciences, 2018, 118, 49-66.	1.9	98
115	The viscoelastic properties of cork. Journal of Materials Science, 2002, 37, 257-263.	1.7	97
116	Layerâ€byâ€Layer Assembly of Chitosan and Recombinant Biopolymers into Biomimetic Coatings with Multiple Stimuliâ€Responsive Properties. Small, 2011, 7, 2640-2649.	5.2	97
117	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.	1.3	97
118	Viscoelastic Properties of Chitosan with Different Hydration Degrees as Studied by Dynamic Mechanical Analysis. Macromolecular Bioscience, 2008, 8, 69-76.	2.1	96
119	Synthesis of Temperature-Responsive Dextran-MA/PNIPAAm Particles for Controlled Drug Delivery Using Superhydrophobic Surfaces. Pharmaceutical Research, 2011, 28, 1294-1305.	1.7	96
120	Hydroxypropyl Chitosan BearingÎ²-Cyclodextrin Cavities: Synthesis and Slow Release of its Inclusion Complex with a Model Hydrophobic Drug. Macromolecular Bioscience, 2005, 5, 965-973.	2.1	94
121	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.	2.1	94
122	Preparation and characterisation in simulated body conditions of glutaraldehyde crosslinked chitosan membranes. Journal of Materials Science: Materials in Medicine, 2004, 15, 1105-1112.	1.7	93
123	The use of ionic liquids in the processing of chitosan/silk hydrogels for biomedical applications. Green Chemistry, 2012, 14, 1463.	4.6	93
124	Nature-inspired calcium phosphate coatings: present status and novel advances in the science of mimicry. Current Opinion in Solid State and Materials Science, 2003, 7, 309-318.	5.6	92
125	Influence of Semicrystalline Morphology on the Glass Transition of Poly(L-lactic acid). Macromolecular Chemistry and Physics, 2006, 207, 1262-1271.	1.1	92
126	Antimicrobial functionalized genetically engineered spider silk. Biomaterials, 2011, 32, 4255-4266.	5.7	92

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127	Microglia Response and In Vivo Therapeutic Potential of Methylprednisoloneâ€Loaded Dendrimer Nanoparticles in Spinal Cord Injury. Small, 2013, 9, 738-749.	5.2	91
128	Superhydrophobic Chips for Cell Spheroids High-Throughput Generation and Drug Screening. ACS Applied Materials & Interfaces, 2014, 6, 9488-9495.	4.0	91
129	Coating Strategies Using Layerâ€byâ€layer Deposition for Cell Encapsulation. Chemistry - an Asian Journal, 2016, 11, 1753-1764.	1.7	90
130	Crystallization of Poly(l-lactic acid) Probed with Dielectric Relaxation Spectroscopy. Macromolecules, 2006, 39, 6513-6520.	2.2	89
131	Meltâ€based compressionâ€molded scaffolds from chitosanâ€“polyester blends and composites: Morphology and mechanical properties. Journal of Biomedical Materials Research - Part A, 2009, 91A, 489-504.	2.1	89
132	Bioinspired methodology to fabricate hydrogel spheres for multi-applications using superhydrophobic substrates. Soft Matter, 2010, 6, 5868.	1.2	88
133	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.	1.3	88
134	Tailored Freestanding Multilayered Membranes Based on Chitosan and Alginate. Biomacromolecules, 2014, 15, 3817-3826.	2.6	88
135	Relaxation Studies in PEO/PMMA Blends. Macromolecules, 2000, 33, 1002-1011.	2.2	87
136	Development of Gellan Gum-Based Microparticles/Hydrogel Matrices for Application in the Intervertebral Disc Regeneration. Tissue Engineering - Part C: Methods, 2011, 17, 961-972.	1.1	87
137	Novel corkâ€“polymer composites reinforced with short natural coconut fibres: Effect of fibre loading and coupling agent addition. Composites Science and Technology, 2013, 78, 56-62.	3.8	86
138	Bioplotting of a bioactive alginate dialdehyde-gelatin composite hydrogel containing bioactive glass nanoparticles. Biofabrication, 2016, 8, 035005.	3.7	86
139	Synthesis and Characterization of pH-Sensitive Thiol-Containing Chitosan Beads for Controlled Drug Delivery Applications. Drug Delivery, 2007, 14, 9-17.	2.5	85
140	Development of a bioactive glass-polymer composite for wound healing applications. Materials Science and Engineering C, 2017, 76, 224-232.	3.8	85
141	Dynamic mechanical analysis and creep behaviour of Î²-PVDF films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 370, 336-340.	2.6	84
142	Rheological and mechanical properties of acellular and cellâ€laden methacrylated gellan gum hydrogels. Journal of Biomedical Materials Research - Part A, 2013, 101, 3438-3446.	2.1	84
143	Stimuli-responsive nanocarriers for delivery of bone therapeutics â€“ Barriers and progresses. Journal of Controlled Release, 2018, 273, 51-67.	4.8	84
144	Decellularized Extracellular Matrix for Bioengineering Physiomimetic 3D in Vitro Tumor Models. Trends in Biotechnology, 2020, 38, 1397-1414.	4.9	84

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145	Influence of Low-Temperature Nucleation on the Crystallization Process of Poly(l-lactide). Biomacromolecules, 2005, 6, 3283-3290.	2.6	83
146	Stimuliâ€Responsive Thin Coatings Using Elastinâ€Like Polymers for Biomedical Applications. Advanced Functional Materials, 2009, 19, 3210-3218.	7.8	83
147	Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobicâ€Hydrophilic Micropatterns. Advanced Materials, 2016, 28, 7613-7619.	11.1	83
148	Dexamethasone-loaded scaffolds prepared by supercritical-assisted phase inversion. Acta Biomaterialia, 2009, 5, 2054-2062.	4.1	82
149	Micro/nano-structured superhydrophobic surfaces in the biomedical field: part II: applications overview. Nanomedicine, 2015, 10, 271-297.	1.7	81
150	Biomechanical and cellular segmental characterization of human meniscus: building the basis for Tissue Engineering therapies. Osteoarthritis and Cartilage, 2014, 22, 1271-1281.	0.6	80
151	Incorporation of antimicrobial peptides on functionalized cotton gauzes for medical applications. Carbohydrate Polymers, 2015, 127, 451-461.	5.1	80
152	Silk hydrogels from non-mulberry and mulberry silkworm cocoons processed with ionic liquids. Acta Biomaterialia, 2013, 9, 8972-8982.	4.1	79
153	Enhancement of osteogenic differentiation of human adipose derived stem cells by the controlled release of platelet lysates from hybrid scaffolds produced by supercritical fluid foaming. Journal of Controlled Release, 2012, 162, 19-27.	4.8	78
154	The Potential of Liquid Marbles for Biomedical Applications: A Critical Review. Advanced Healthcare Materials, 2017, 6, 1700192.	3.9	78
155	Preparation of starch-based scaffolds for tissue engineering by supercritical immersion precipitation. Journal of Supercritical Fluids, 2009, 49, 279-285.	1.6	76
156	Multilayered Hierarchical Capsules Providing Cell Adhesion Sites. Biomacromolecules, 2013, 14, 743-751.	2.6	75
157	Some comments on the significance of the compensation effect observed in thermally stimulated current experiments. Polymer, 1997, 38, 1081-1089.	1.8	73
158	Cooperative rearranging region size in semi-crystalline poly(l-lactic acid). Polymer, 2008, 49, 3130-3135.	1.8	73
159	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.	2.1	73
160	Phosphorous Containing Chitosan Beads for Controlled Oral Drug Delivery. Journal of Bioactive and Compatible Polymers, 2006, 21, 327-340.	0.8	72
161	Novel 3D scaffolds of chitosanâ€"PLLA blends for tissue engineering applications: Preparation and characterization. Journal of Supercritical Fluids, 2010, 54, 282-289.	1.6	72
162	Cell Adhesion and Proliferation onto Chitosan-based Membranes Treated by Plasma Surface Modification. Journal of Biomaterials Applications, 2011, 26, 101-116.	1.2	72

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163	Chitosan/bioactive glass nanoparticles scaffolds with shape memory properties. Carbohydrate Polymers, 2015, 123, 39-45.	5.1	72
164	In-air production of 3D co-culture tumor spheroid hydrogels for expedited drug screening. Acta Biomaterialia, 2019, 94, 392-409.	4.1	72
165	Microparticles in Contact with Cells: From Carriers to Multifunctional Tissue Modulators. Trends in Biotechnology, 2019, 37, 1011-1028.	4.9	72
166	Genipinâ€Modified Silkâ€Fibroin Nanometric Nets. Macromolecular Bioscience, 2008, 8, 766-774.	2.1	71
167	Layerâ€byâ€layer deposition of antimicrobial polymers on cellulosic fibers: a new strategy to develop bioactive textiles. Polymers for Advanced Technologies, 2013, 24, 1005-1010.	1.6	71
168	Engineering Biomolecular Microenvironments for Cell Instructive Biomaterials. Advanced Healthcare Materials, 2014, 3, 797-810.	3.9	71
169	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
170	Hydrogel 3D<i>in vitro</i>tumor models for screening cell aggregation mediated drug response. Biomaterials Science, 2020, 8, 1855-1864.	2.6	70
171	Crosslink Effect and Albumin Adsorption onto Chitosan/Alginate Multilayered Systems: An in situ QCMâ€D Study. Macromolecular Bioscience, 2010, 10, 1444-1455.	2.1	69
172	Immobilization of fibronectin in chitosan substrates improves cell adhesion and proliferation. Journal of Tissue Engineering and Regenerative Medicine, 2010, 4, 316-323.	1.3	69
173	Adhesive nanostructured multilayer films using a bacterial exopolysaccharide for biomedical applications. Journal of Materials Chemistry B, 2013, 1, 2367.	2.9	69
174	Magnetic composite biomaterials for tissue engineering. Biomaterials Science, 2014, 2, 812-818.	2.6	67
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