

# João F Mano

## List of Publications by Year in descending order

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755  
papers

41,878  
citations

2101

100  
h-index

5988

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. <i>Journal of the Royal Society Interface</i> , 2007, 4, 999-1030.	3.4	969
2	Molecular Interactions Driving the Layer-by-Layer Assembly of Multilayers. <i>Chemical Reviews</i> , 2014, 114, 8883-8942.	47.7	697
3	Chitosan derivatives obtained by chemical modifications for biomedical and environmental applications. <i>International Journal of Biological Macromolecules</i> , 2008, 43, 401-414.	7.5	672
4	Stimuli-Responsive Polymeric Systems for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2008, 10, 515-527.	3.5	579
5	Graft copolymerized chitosan's present status and applications. <i>Carbohydrate Polymers</i> , 2005, 62, 142-158.	10.2	550
6	Three-dimensional plotted scaffolds with controlled pore size gradients: Effect of scaffold geometry on mechanical performance and cell seeding efficiency. <i>Acta Biomaterialia</i> , 2011, 7, 1009-1018.	8.3	487
7	Natural polymers for the microencapsulation of cells. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140817.	3.4	480
8	Polymer/bioactive glass nanocomposites for biomedical applications: A review. <i>Composites Science and Technology</i> , 2010, 70, 1764-1776.	7.8	451
9	Chitosan-Based Particles as Controlled Drug Delivery Systems. <i>Drug Delivery</i> , 2004, 12, 41-57.	5.7	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. <i>Biomaterials</i> , 2006, 27, 6123-6137.	11.4	411
11	FTIR AND DSC STUDIES OF MECHANICALLY DEFORMED P2-PVDF FILMS. <i>Journal of Macromolecular Science - Physics</i> , 2001, 40, 517-527.	1.0	386
12	Bioinert, biodegradable and injectable polymeric matrix composites for hard tissue replacement: state of the art and recent developments. <i>Composites Science and Technology</i> , 2004, 64, 789-817.	7.8	374
13	Stimuli-Responsive Hydrogels Based on Polysaccharides Incorporated with Thermo-Responsive Polymers as Novel Biomaterials. <i>Macromolecular Bioscience</i> , 2006, 6, 991-1008.	4.1	319
14	Starch-based biodegradable hydrogels with potential biomedical applications as drug delivery systems. <i>Biomaterials</i> , 2002, 23, 1955-1966.	11.4	311
15	Thermal properties of thermoplastic starch/synthetic polymer blends with potential biomedical applicability. <i>Journal of Materials Science: Materials in Medicine</i> , 2003, 14, 127-135.	3.6	306
16	Electrically Conductive Chitosan/Carbon Scaffolds for Cardiac Tissue Engineering. <i>Biomacromolecules</i> , 2014, 15, 635-643.	5.4	306
17	Genipin-crosslinked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 465-475.	4.0	291
18	Smart thermoresponsive coatings and surfaces for tissue engineering: switching cell-material boundaries. <i>Trends in Biotechnology</i> , 2007, 25, 577-583.	9.3	289

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19	Controlling Cell Behavior Through the Design of Polymer Surfaces. <i>Small</i> , 2010, 6, 2208-2220.	10.0	289
20	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. <i>Acta Biomaterialia</i> , 2012, 8, 289-301.	8.3	276
21	Polyelectrolyte multilayered assemblies in biomedical technologies. <i>Chemical Society Reviews</i> , 2014, 43, 3453.	38.1	262
22	Bone physiology as inspiration for tissue regenerative therapies. <i>Biomaterials</i> , 2018, 185, 240-275.	11.4	259
23	Novel Genipin-Cross-Linked Chitosan/Silk Fibroin Sponges for Cartilage Engineering Strategies. <i>Biomacromolecules</i> , 2008, 9, 2764-2774.	5.4	240
24	Stimuli-Responsive Nanocomposite Hydrogels for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2005941.	14.9	234
25	Natural and genetically engineered proteins for tissue engineering. <i>Progress in Polymer Science</i> , 2012, 37, 1-17.	24.7	227
26	Production and Characterization of Chitosan Fibers and 3D Fiber Mesh Scaffolds for Tissue Engineering Applications. <i>Macromolecular Bioscience</i> , 2004, 4, 811-819.	4.1	224
27	Properties of melt processed chitosan and aliphatic polyester blends. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 403, 57-68.	5.6	224
28	Bionanocomposites from lignocellulosic resources: Properties, applications and future trends for their use in the biomedical field. <i>Progress in Polymer Science</i> , 2013, 38, 1415-1441.	24.7	224
29	Osteochondral defects: present situation and tissue engineering approaches. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007, 1, 261-273.	2.7	209
30	Chitosan/bioactive glass nanoparticle composite membranes for periodontal regeneration. <i>Acta Biomaterialia</i> , 2012, 8, 4173-4180.	8.3	209
31	The dynamic effect of pipe-wall viscoelasticity in hydraulic transients. Part II: model development, calibration and verification. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2005, 43, 56-70.	1.7	208
32	Extracellular vesicles, exosomes and shedding vesicles in regenerative medicine – a new paradigm for tissue repair. <i>Biomaterials Science</i> , 2018, 6, 60-78.	5.4	207
33	Marine Origin Polysaccharides in Drug Delivery Systems. <i>Marine Drugs</i> , 2016, 14, 34.	4.6	205
34	Chitosan/Poly( $\epsilon$ -caprolactone) blend scaffolds for cartilage repair. <i>Biomaterials</i> , 2011, 32, 1068-1079.	11.4	204
35	Gellan gum-based hydrogels for intervertebral disc tissue-engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, e97-e107.	2.7	201
36	Biomimetic design of materials and biomaterials inspired by the structure of nacre. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1587-1605.	3.4	193

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37	Ionic liquids in the processing and chemical modification of chitin and chitosan for biomedical applications. <i>Green Chemistry</i> , 2017, 19, 1208-1220.	9.0	190
38	Gellan gum: A new biomaterial for cartilage tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 852-863.	4.0	185
39	Chitosan derivatives bearing cyclodextrin cavities as novel adsorbent matrices. <i>Carbohydrate Polymers</i> , 2006, 63, 153-166.	10.2	177
40	Bioinspired Degradable Substrates with Extreme Wettability Properties. <i>Advanced Materials</i> , 2009, 21, 1830-1834.	21.0	174
41	Materials of marine origin: a review on polymers and ceramics of biomedical interest. <i>International Materials Reviews</i> , 2012, 57, 276-306.	19.3	173
42	Development of Injectable Hyaluronic Acid/Cellulose Nanocrystals Bionanocomposite Hydrogels for Tissue Engineering Applications. <i>Bioconjugate Chemistry</i> , 2015, 26, 1571-1581.	3.6	172
43	Dendrimers and derivatives as a potential therapeutic tool in regenerative medicine strategies – A review. <i>Progress in Polymer Science</i> , 2010, 35, 1163-1194.	24.7	171
44	Carrageenan-Based Hydrogels for the Controlled Delivery of PDGF-BB in Bone Tissue Engineering Applications. <i>Biomacromolecules</i> , 2009, 10, 1392-1401.	5.4	165
45	Dissolution enhancement of active pharmaceutical ingredients by therapeutic deep eutectic systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 98, 57-66.	4.3	164
46	Nanostructured Polymeric Coatings Based on Chitosan and Dopamine-Modified Hyaluronic Acid for Biomedical Applications. <i>Small</i> , 2014, 10, 2459-2469.	10.0	163
47	Chemical modification of starch based biodegradable polymeric blends: effects on water uptake, degradation behaviour and mechanical properties. <i>Polymer Degradation and Stability</i> , 2000, 70, 161-170.	5.8	162
48	Design of spherically structured 3D in vitro tumor models -Advances and prospects. <i>Acta Biomaterialia</i> , 2018, 75, 11-34.	8.3	155
49	Status and future scope of plant-based green hydrogels in biomedical engineering. <i>Applied Materials Today</i> , 2019, 16, 213-246.	4.3	154
50	New partially degradable and bioactive acrylic bone cements based on starch blends and ceramic fillers. <i>Biomaterials</i> , 2002, 23, 1883-1895.	11.4	152
51	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. <i>Biomatter</i> , 2012, 2, 278-289.	2.6	151
52	Drug Release of pH/Temperature-Responsive Calcium Alginate/Poly(N-isopropylacrylamide) Semi-IPN Beads. <i>Macromolecular Bioscience</i> , 2006, 6, 358-363.	4.1	150
53	Development of new chitosan/carrageenan nanoparticles for drug delivery applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1265-1272.	4.0	150
54	Development of bioactive and biodegradable chitosan-based injectable systems containing bioactive glass nanoparticles. <i>Acta Biomaterialia</i> , 2009, 5, 115-123.	8.3	150

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55	Chitosan Scaffolds Containing Hyaluronic Acid for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 717-730.	2.1	149
56	Preparation and in vitro characterization of scaffolds of poly(l-lactic acid) containing bioactive glass ceramic nanoparticles. <i>Acta Biomaterialia</i> , 2008, 4, 1297-1306.	8.3	148
57	Bioinspired Ultratough Hydrogel with Fast Recovery, Self-Healing, Injectability and Cytocompatibility. <i>Advanced Materials</i> , 2017, 29, 1700759.	21.0	148
58	Glass transition and structural relaxation in semi-crystalline poly(ethylene terephthalate): a DSC study. <i>Polymer</i> , 2002, 43, 4111-4122.	3.8	146
59	Preparation and <i>in vitro</i> characterization of novel bioactive glass ceramic nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 304-313.	4.0	144
60	Designing biomaterials based on biomineralization of bone. <i>Journal of Materials Chemistry</i> , 2010, 20, 2911.	6.7	144
61	Interactions between cells or proteins and surfaces exhibiting extreme wettabilities. <i>Soft Matter</i> , 2013, 9, 2985.	2.7	143
62	Gellan Gum Injectable Hydrogels for Cartilage Tissue Engineering Applications: <i>In Vitro</i> Studies and Preliminary <i>In Vivo</i> Evaluation. <i>Tissue Engineering - Part A</i> , 2010, 16, 343-353.	3.1	142
63	Polymer-based microparticles in tissue engineering and regenerative medicine. <i>Biotechnology Progress</i> , 2011, 27, 897-912.	2.6	140
64	Bilayered silk/silk-nanoCaP scaffolds for osteochondral tissue engineering: In vitro and in vivo assessment of biological performance. <i>Acta Biomaterialia</i> , 2015, 12, 227-241.	8.3	140
65	Glass transition dynamics and structural relaxation of PLLA studied by DSC: Influence of crystallinity. <i>Polymer</i> , 2005, 46, 8258-8265.	3.8	139
66	Mobile amorphous phase fragility in semi-crystalline polymers: Comparison of PET and PLLA. <i>Polymer</i> , 2007, 48, 1012-1019.	3.8	138
67	Morphological Contributions to Glass Transition in Poly(l-lactic acid). <i>Macromolecules</i> , 2005, 38, 4712-4718.	4.8	137
68	Recent progresses in the adsorption of organic, inorganic, and gas compounds by MCM-41-based mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2020, 291, 109698.	4.4	132
69	Plasma Surface Modification of Chitosan Membranes: Characterization and Preliminary Cell Response Studies. <i>Macromolecular Bioscience</i> , 2008, 8, 568-576.	4.1	131
70	The osteogenic differentiation of rat bone marrow stromal cells cultured with dexamethasone-loaded carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles. <i>Biomaterials</i> , 2009, 30, 804-813.	11.4	131
71	Controlled Release Strategies for Bone, Cartilage, and Osteochondral Engineering—Part I: Recapitulation of Native Tissue Healing and Variables for the Design of Delivery Systems. <i>Tissue Engineering - Part B: Reviews</i> , 2013, 19, 308-326.	4.8	131
72	Free-Standing Polyelectrolyte Membranes Made of Chitosan and Alginate. <i>Biomacromolecules</i> , 2013, 14, 1653-1660.	5.4	131

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73	Extremely strong and tough hydrogels as prospective candidates for tissue repair – A review. <i>European Polymer Journal</i> , 2015, 72, 344-364.	5.4	129
74	Advanced Bottom-Up Engineering of Living Architectures. <i>Advanced Materials</i> , 2020, 32, e1903975.	21.0	127
75	Preparation and characterization of bioactive glass nanoparticles prepared by sol-gel for biomedical applications. <i>Nanotechnology</i> , 2011, 22, 494014.	2.6	124
76	Functional nanostructured chitosan-siloxane hybrids. <i>Journal of Materials Chemistry</i> , 2005, 15, 3952.	6.7	123
77	Mineralized structures in nature: Examples and inspirations for the design of new composite materials and biomaterials. <i>Composites Science and Technology</i> , 2010, 70, 1777-1788.	7.8	123
78	Cell interactions with superhydrophilic and superhydrophobic surfaces. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 843-863.	2.6	123
79	Cold Crystallization of PLLA Studied by Simultaneous SAXS and WAXS. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 910-915.	3.6	121
80	Chitosan coated alginate beads containing poly( <i>N</i> -isopropylacrylamide) for dual-stimuli-responsive drug release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 595-603.	3.4	118
81	An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. <i>Acta Biomaterialia</i> , 2013, 9, 6790-6797.	8.3	118
82	Self Assembling and Crosslinking of Polyelectrolyte Multilayer Films of Chitosan and Alginate Studied by QCM and IR Spectroscopy. <i>Macromolecular Bioscience</i> , 2009, 9, 776-785.	4.1	117
83	Characterization of poled and non-poled $\hat{P}^2$ -PVDF films using thermal analysis techniques. <i>Thermochimica Acta</i> , 2004, 424, 201-207.	2.7	115
84	Preparation and characterization of poly(L-lactic acid)-chitosan hybrid scaffolds with drug release capability. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 81B, 427-434.	3.4	114
85	Green processing of porous chitin structures for biomedical applications combining ionic liquids and supercritical fluid technology. <i>Acta Biomaterialia</i> , 2011, 7, 1166-1172.	8.3	114
86	Preparation of chitosan scaffolds loaded with dexamethasone for tissue engineering applications using supercritical fluid technology. <i>European Polymer Journal</i> , 2009, 45, 141-148.	5.4	111
87	Physical properties and biocompatibility of chitosan/soy blended membranes. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 575-579.	3.6	108
88	Controlled Release Strategies for Bone, Cartilage, and Osteochondral Engineering – Part II: Challenges on the Evolution from Single to Multiple Bioactive Factor Delivery. <i>Tissue Engineering - Part B: Reviews</i> , 2013, 19, 327-352.	4.8	108
89	Thermal and Thermomechanical Behaviour of Polycaprolactone and Starch/Polycaprolactone Blends for Biomedical Applications. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 792-801.	3.6	107
90	Morphology and miscibility of chitosan/soy protein blended membranes. <i>Carbohydrate Polymers</i> , 2007, 70, 25-31.	10.2	107

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91	Extraction and physico-chemical characterization of a versatile biodegradable polysaccharide obtained from green algae. <i>Carbohydrate Research</i> , 2010, 345, 2194-2200.	2.3	106
92	Layer-by-Layer Assembly of Light-Responsive Polymeric Multilayer Systems. <i>Advanced Functional Materials</i> , 2014, 24, 5624-5648.	14.9	106
93	Nanostructured 3D Constructs Based on Chitosan and Chondroitin Sulphate Multilayers for Cartilage Tissue Engineering. <i>PLoS ONE</i> , 2013, 8, e55451.	2.5	105
94	Hybrid cork-polymer composites containing sisal fibre: Morphology, effect of the fibre treatment on the mechanical properties and tensile failure prediction. <i>Composite Structures</i> , 2013, 105, 153-162.	5.8	104
95	Viscoelastic Behavior of Poly(methyl methacrylate) Networks with Different Cross-Linking Degrees. <i>Macromolecules</i> , 2004, 37, 3735-3744.	4.8	103
96	Effect of the labelling ratio on the photophysics of fluorescein isothiocyanate (FITC) conjugated to bovine serum albumin. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 152-158.	2.9	103
97	Two-Dimensional Open Microfluidic Devices by Tuning the Wettability on Patterned Superhydrophobic Polymeric Surface. <i>Applied Physics Express</i> , 2010, 3, 085205.	2.4	103
98	Development and Characterization of a Novel Hybrid Tissue Engineering-Based Scaffold for Spinal Cord Injury Repair. <i>Tissue Engineering - Part A</i> , 2010, 16, 45-54.	3.1	103
99	Wettability Influences Cell Behavior on Superhydrophobic Surfaces with Different Topographies. <i>Biointerphases</i> , 2012, 7, 46.	1.6	103
100	Biomedical applications of laminarin. <i>Carbohydrate Polymers</i> , 2020, 232, 115774.	10.2	103
101	Potential applications of natural origin polymer-based systems in soft tissue regeneration. <i>Critical Reviews in Biotechnology</i> , 2010, 30, 200-221.	9.0	102
102	Strategic Advances in Formation of Cell-in-Shell Structures: From Syntheses to Applications. <i>Advanced Materials</i> , 2018, 30, e1706063.	21.0	102
103	Influence of melting conditions on the thermal behaviour of poly(L-lactic acid). <i>European Polymer Journal</i> , 2005, 41, 2335-2342.	5.4	101
104	New poly( $\mu$ -caprolactone)/chitosan blend fibers for tissue engineering applications. <i>Acta Biomaterialia</i> , 2010, 6, 418-428.	8.3	100
105	Stimuli-responsive chitosan-starch injectable hydrogels combined with encapsulated adipose-derived stromal cells for articular cartilage regeneration. <i>Soft Matter</i> , 2010, 6, 5184.	2.7	100
106	Chemical modification of bioinspired superhydrophobic polystyrene surfaces to control cell attachment/proliferation. <i>Soft Matter</i> , 2011, 7, 8932.	2.7	100
107	Biomimetic Extracellular Environment Based on Natural Origin Polyelectrolyte Multilayers. <i>Small</i> , 2016, 12, 4308-4342.	10.0	100
108	Supercritical fluids in biomedical and tissue engineering applications: a review. <i>International Materials Reviews</i> , 2009, 54, 214-222.	19.3	99

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109	High-throughput evaluation of interactions between biomaterials, proteins and cells using patterned superhydrophobic substrates. <i>Soft Matter</i> , 2011, 7, 4147.	2.7	99
110	Carboxymethyl chitosan-graft-phosphatidylethanolamine: Amphiphilic matrices for controlled drug delivery. <i>Reactive and Functional Polymers</i> , 2007, 67, 43-52.	4.1	98
111	Production methodologies of polymeric and hydrogel particles for drug delivery applications. <i>Expert Opinion on Drug Delivery</i> , 2012, 9, 231-248.	5.0	98
112	Effect of crosslinking in chitosan/aloe vera-based membranes for biomedical applications. <i>Carbohydrate Polymers</i> , 2013, 98, 581-588.	10.2	98
113	Chitosan membranes containing micro or nano-size bioactive glass particles: evolution of biomineralization followed by in situ dynamic mechanical analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 20, 173-183.	3.1	98
114	Biomaterials for drug delivery patches. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 118, 49-66.	4.0	98
115	The viscoelastic properties of cork. <i>Journal of Materials Science</i> , 2002, 37, 257-263.	3.7	97
116	Layer-by-Layer Assembly of Chitosan and Recombinant Biopolymers into Biomimetic Coatings with Multiple Stimuli-Responsive Properties. <i>Small</i> , 2011, 7, 2640-2649.	10.0	97
117	Chondrogenic potential of injectable $\chi$ -carrageenan hydrogel with encapsulated adipose stem cells for cartilage tissue-engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 550-563.	2.7	97
118	Viscoelastic Properties of Chitosan with Different Hydration Degrees as Studied by Dynamic Mechanical Analysis. <i>Macromolecular Bioscience</i> , 2008, 8, 69-76.	4.1	96
119	Synthesis of Temperature-Responsive Dextran-MA/PNIPAAm Particles for Controlled Drug Delivery Using Superhydrophobic Surfaces. <i>Pharmaceutical Research</i> , 2011, 28, 1294-1305.	3.5	96
120	Hydroxypropyl Chitosan Bearing $\beta$ -Cyclodextrin Cavities: Synthesis and Slow Release of its Inclusion Complex with a Model Hydrophobic Drug. <i>Macromolecular Bioscience</i> , 2005, 5, 965-973.	4.1	94
121	Bioinspired superhydrophobic poly(L-lactic acid) surfaces control bone marrow derived cells adhesion and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 480-488.	4.0	94
122	Preparation and characterisation in simulated body conditions of glutaraldehyde crosslinked chitosan membranes. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 1105-1112.	3.6	93
123	The use of ionic liquids in the processing of chitosan/silk hydrogels for biomedical applications. <i>Green Chemistry</i> , 2012, 14, 1463.	9.0	93
124	Nature-inspired calcium phosphate coatings: present status and novel advances in the science of mimicry. <i>Current Opinion in Solid State and Materials Science</i> , 2003, 7, 309-318.	11.5	92
125	Influence of Semicrystalline Morphology on the Glass Transition of Poly(L-lactic acid). <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1262-1271.	2.2	92
126	Antimicrobial functionalized genetically engineered spider silk. <i>Biomaterials</i> , 2011, 32, 4255-4266.	11.4	92



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127	Microglia Response and In Vivo Therapeutic Potential of Methylprednisolone-Loaded Dendrimer Nanoparticles in Spinal Cord Injury. <i>Small</i> , 2013, 9, 738-749.	10.0	91
128	Superhydrophobic Chips for Cell Spheroids High-Throughput Generation and Drug Screening. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9488-9495.	8.0	91
129	Coating Strategies Using Layer-by-Layer Deposition for Cell Encapsulation. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1753-1764.	3.3	90
130	Crystallization of Poly(L-lactic acid) Probed with Dielectric Relaxation Spectroscopy. <i>Macromolecules</i> , 2006, 39, 6513-6520.	4.8	89
131	Melt-based compression-molded scaffolds from chitosan-polyester blends and composites: Morphology and mechanical properties. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 489-504.	4.0	89
132	Bioinspired methodology to fabricate hydrogel spheres for multi-applications using superhydrophobic substrates. <i>Soft Matter</i> , 2010, 6, 5868.	2.7	88
133	Chitosan-chondroitin sulphate nanoparticles for controlled delivery of platelet lysates in bone regenerative medicine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, s47-s59.	2.7	88
134	Tailored Freestanding Multilayered Membranes Based on Chitosan and Alginate. <i>Biomacromolecules</i> , 2014, 15, 3817-3826.	5.4	88
135	Relaxation Studies in PEO/PMMA Blends. <i>Macromolecules</i> , 2000, 33, 1002-1011.	4.8	87
136	Development of Gellan Gum-Based Microparticles/Hydrogel Matrices for Application in the Intervertebral Disc Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 961-972.	2.1	87
137	Novel cork-polymer composites reinforced with short natural coconut fibres: Effect of fibre loading and coupling agent addition. <i>Composites Science and Technology</i> , 2013, 78, 56-62.	7.8	86
138	Bioplotting of a bioactive alginate dialdehyde-gelatin composite hydrogel containing bioactive glass nanoparticles. <i>Biofabrication</i> , 2016, 8, 035005.	7.1	86
139	Synthesis and Characterization of pH-Sensitive Thiol-Containing Chitosan Beads for Controlled Drug Delivery Applications. <i>Drug Delivery</i> , 2007, 14, 9-17.	5.7	85
140	Development of a bioactive glass-polymer composite for wound healing applications. <i>Materials Science and Engineering C</i> , 2017, 76, 224-232.	7.3	85
141	Dynamic mechanical analysis and creep behaviour of $\hat{\gamma}$ -PVDF films. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 370, 336-340.	5.6	84
142	Rheological and mechanical properties of acellular and cell-laden methacrylated gellan gum hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3438-3446.	4.0	84
143	Stimuli-responsive nanocarriers for delivery of bone therapeutics - Barriers and progresses. <i>Journal of Controlled Release</i> , 2018, 273, 51-67.	9.9	84
144	Decellularized Extracellular Matrix for Bioengineering Physiometric 3D In Vitro Tumor Models. <i>Trends in Biotechnology</i> , 2020, 38, 1397-1414.	9.3	84

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145	Influence of Low-Temperature Nucleation on the Crystallization Process of Poly(L-lactide). <i>Biomacromolecules</i> , 2005, 6, 3283-3290.	5.4	83
146	Stimuli-Responsive Thin Coatings Using Elastin-Like Polymers for Biomedical Applications. <i>Advanced Functional Materials</i> , 2009, 19, 3210-3218.	14.9	83
147	Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobic-Hydrophilic Micropatterns. <i>Advanced Materials</i> , 2016, 28, 7613-7619.	21.0	83
148	Dexamethasone-loaded scaffolds prepared by supercritical-assisted phase inversion. <i>Acta Biomaterialia</i> , 2009, 5, 2054-2062.	8.3	82
149	Micro/nano-structured superhydrophobic surfaces in the biomedical field: part II: applications overview. <i>Nanomedicine</i> , 2015, 10, 271-297.	3.3	81
150	Biomechanical and cellular segmental characterization of human meniscus: building the basis for Tissue Engineering therapies. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1271-1281.	1.3	80
151	Incorporation of antimicrobial peptides on functionalized cotton gauzes for medical applications. <i>Carbohydrate Polymers</i> , 2015, 127, 451-461.	10.2	80
152	Silk hydrogels from non-mulberry and mulberry silkworm cocoons processed with ionic liquids. <i>Acta Biomaterialia</i> , 2013, 9, 8972-8982.	8.3	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. <i>Journal of Controlled Release</i> , 2012, 162, 19-27.	9.9	78
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