Rui L Reis

List of Publications by Year
in descending order

1,419 papers	75,258 citations	668 122 h-index	2274 200 g-index
1491 all docs	1491 docs citations	1491 times ranked	58278 citing authors

#	Article	IF	Citations
1	Natural Deep Eutectic Solvents â€“ Solvents for the 21st Century. ACS Sustainable Chemistry and Engineering, 2014, 2, 1063-1071.	3.2	1,598
2	Bone Tissue Engineering: State of the Art and Future Trends. Macromolecular Bioscience, 2004, 4, 743-765.	2.1	1,460
3	Naturalâ€origin polymers as carriers and scaffolds for biomolecules and cell delivery in tissue engineering applications. Advanced Drug Delivery Reviews, 2007, 59, 207-233.	6.6	1,201
4	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
5	The stiffness of living tissues and its implications for tissue engineering. Nature Reviews Materials, 2020, 5, 351-370.	23.3	756
6	Naturalâ€Based Nanocomposites for Bone Tissue Engineering and Regenerative Medicine: A Review. Advanced Materials, 2015, 27, 1143-1169.	11.1	743
7	From basics to clinical: A comprehensive review on spinal cord injury. Progress in Neurobiology, 2014, 114, 25-57.	2.8	626
8	Graft copolymerized chitosanâ€"present status and applications. Carbohydrate Polymers, 2005, 62, 142-158.	5.1	550
9	Cork: properties, capabilities and applications. International Materials Reviews, 2005, 50, 345-365.	9.4	499
10	Adipose Tissue Derived Stem Cells Secretome: Soluble Factors and Their Roles in Regenerative Medicine. Current Stem Cell Research and Therapy, 2010, 5, 103-110.	0.6	497
11	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
12	Natural polymers for the microencapsulation of cells. Journal of the Royal Society Interface, 2014, 11, 20140817.	1.5	480
13	Bone morphogenetic proteins in tissue engineering: the road from laboratory to clinic, part II (BMP) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	478
14	Bioactive Silicate Nanoplatelets for Osteogenic Differentiation of Human Mesenchymal Stem Cells. Advanced Materials, 2013, 25, 3329-3336.	11.1	448
15	The Potential of Cellulose Nanocrystals in Tissue Engineering Strategies. Biomacromolecules, 2014, 15, 2327-2346.	2.6	417
16	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
17	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
18	Vascularization in Bone Tissue Engineering: Physiology, Current Strategies, Major Hurdles and Future Challenges. Macromolecular Bioscience, 2010, 10, 12-27.	2.1	370

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19	Scaffold Fabrication Technologies and Structure/Function Properties in Bone Tissue Engineering. Advanced Functional Materials, 2021, 31, 2010609.	7.8	370
20	A new approach based on injection moulding to produce biodegradable starch-based polymeric scaffolds: morphology, mechanical and degradation behaviour. Biomaterials, 2001, 22, 883-889.	5.7	354
21	Modified Gellan Gum hydrogels with tunable physical and mechanical properties. Biomaterials, 2010, 31, 7494-7502.	5.7	342
22	Effect of flow perfusion on the osteogenic differentiation of bone marrow stromal cells cultured on starch-based three-dimensional scaffolds. Journal of Biomedical Materials Research Part B, 2003, 67A, 87-95.	3.0	326
23	Silk fibroin/hydroxyapatite composites for bone tissue engineering. Biotechnology Advances, 2018, 36, 68-91.	6.0	320
24	The biocompatibility of novel starch-based polymers and composites: in vitro studies. Biomaterials, 2002, 23, 1471-1478.	5.7	319
25	Starch-based biodegradable hydrogels with potential biomedical applications as drug delivery systems. Biomaterials, 2002, 23, 1955-1966.	5.7	311
26	Nano- and micro-fiber combined scaffolds: A new architecture for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2005, 16, 1099-1104.	1.7	310
27	Scaffolding Strategies for Tissue Engineering and Regenerative Medicine Applications. Materials, 2019, 12, 1824.	1.3	309
28	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
29	Electrically Conductive Chitosan/Carbon Scaffolds for Cardiac Tissue Engineering. Biomacromolecules, 2014, 15, 635-643.	2.6	306
30	Incorporation of a sequential BMP-2/BMP-7 delivery system into chitosan-based scaffolds for bone tissue engineering. Biomaterials, 2009, 30, 3551-3559.	5.7	304
31	Marine Origin Collagens and Its Potential Applications. Marine Drugs, 2014, 12, 5881-5901.	2.2	300
32	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
33	Smart thermoresponsive coatings and surfaces for tissue engineering: switching cell-material boundaries. Trends in Biotechnology, 2007, 25, 577-583.	4.9	289
34	Controlling Cell Behavior Through the Design of Polymer Surfaces. Small, 2010, 6, 2208-2220.	5.2	289
35	Selfâ€assembly in nature: using the principles of nature to create complex nanobiomaterials. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2013, 5, 582-612.	3.3	286
36	Scaffolds Based Bone Tissue Engineering: The Role of Chitosan. Tissue Engineering - Part B: Reviews, 2011, 17, 331-347.	2.5	285

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37	Biocompatible ionic liquids: fundamental behaviours and applications. Chemical Society Reviews, 2019, 48, 4317-4335.	18.7	280
38	Properties and thermal behavior of natural deep eutectic solvents. Journal of Molecular Liquids, 2016, 215, 534-540.	2.3	277
39	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. Acta Biomaterialia, 2012, 8, 289-301.	4.1	276
40	Bone morphogenetic proteins in tissue engineering: the road from the laboratory to the clinic, part I (basic concepts). Journal of Tissue Engineering and Regenerative Medicine, 2008, 2, 1-13.	1.3	273
41	Liposomes in tissue engineering and regenerative medicine. Journal of the Royal Society Interface, 2014, 11, 20140459.	1.5	269
42	Controlling Cancer Cell Fate Using Localized Biocatalytic Self-Assembly of an Aromatic Carbohydrate Amphiphile. Journal of the American Chemical Society, 2015, 137, 576-579.	6.6	260
43	Surface Modification of Electrospun Polycaprolactone Nanofiber Meshes by Plasma Treatment to Enhance Biological Performance. Small, 2009, 5, 1195-1206.	5.2	244
44	Novel Genipin-Cross-Linked Chitosan/Silk Fibroin Sponges for Cartilage Engineering Strategies. Biomacromolecules, 2008, 9, 2764-2774.	2.6	240
45	Natural and genetically engineered proteins for tissue engineering. Progress in Polymer Science, 2012, 37, 1-17.	11.8	227
46	Sulfation of Glycosaminoglycans and Its Implications in Human Health and Disorders. Annual Review of Biomedical Engineering, 2017, 19, 1-26.	5.7	227
47	Differential regulation of osteogenic differentiation of stem cells on surface roughness gradients. Biomaterials, 2014, 35, 9023-9032.	5.7	226
48	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
49	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
50	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
51	Development of silk-based scaffolds for tissue engineering of bone from human adipose-derived stem cells. Acta Biomaterialia, 2012, 8, 2483-2492.	4.1	210
52	Osteochondral defects: present situation and tissue engineering approaches. Journal of Tissue Engineering and Regenerative Medicine, 2007, 1, 261-273.	1.3	209
53	Chitosan/bioactive glass nanoparticle composite membranes for periodontal regeneration. Acta Biomaterialia, 2012, 8, 4173-4180.	4.1	209
54	Chitosan/Poly(É›-caprolactone) blend scaffolds for cartilage repair. Biomaterials, 2011, 32, 1068-1079.	5.7	204

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55	Gellan gum-based hydrogels for intervertebral disc tissue-engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, e97-e107.	1.3	201
56	Natural deep eutectic solvents from choline chloride and betaine â€“ Physicochemical properties. Journal of Molecular Liquids, 2017, 241, 654-661.	2.3	194
57	Influence of the Porosity of Starch-Based Fiber Mesh Scaffolds on the Proliferation and Osteogenic Differentiation of Bone Marrow Stromal Cells Cultured in a Flow Perfusion Bioreactor. Tissue Engineering, 2006, 12, 801-809.	4.9	193
58	Crosstalk between osteoblasts and endothelial cells co-cultured on a polycaprolactoneâ€“starch scaffold and the in vitro development of vascularization. Biomaterials, 2009, 30, 4407-4415.	5.7	193
59	Biocompatibility testing of novel starch-based materials with potential application in orthopaedic surgery: a preliminary study. Biomaterials, 2001, 22, 2057-2064.	5.7	192
60	Alternative tissue engineering scaffolds based on starch: processing methodologies, morphology, degradation and mechanical properties. Materials Science and Engineering C, 2002, 20, 19-26.	3.8	191
61	Hierarchical starch-based fibrous scaffold for bone tissue engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 37-42.	1.3	191
62	Ionic liquids in the processing and chemical modification of chitin and chitosan for biomedical applications. Green Chemistry, 2017, 19, 1208-1220.	4.6	190
63	Modern Trends for Peripheral Nerve Repair and Regeneration: Beyond the Hollow Nerve Guidance Conduit. Frontiers in Bioengineering and Biotechnology, 2019, 7, 337.	2.0	186
64	Gellan gum: A new biomaterial for cartilage tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2010, 93A, 852-863.	2.1	185
65	Contribution of outgrowth endothelial cells from human peripheral blood on in vivo vascularization of bone tissue engineered constructs based on starch polycaprolactone scaffolds. Biomaterials, 2009, 30, 526-534.	5.7	184
66	Advanced tissue engineering scaffold design for regeneration of the complex hierarchical periodontal structure. Journal of Clinical Periodontology, 2014, 41, 283-294.	2.3	179
67	Photocrosslinkable <i>Kappa</i>â€Carrageenan Hydrogels for Tissue Engineering Applications. Advanced Healthcare Materials, 2013, 2, 895-907.	3.9	178
68	Multifunctional bioactive glass and glass-ceramic biomaterials with antibacterial properties for repair and regeneration of bone tissue. Acta Biomaterialia, 2017, 59, 2-11.	4.1	178
69	Cytocompatibility and response of osteoblastic-like cells to starch-based polymers: effect of several additives and processing conditions. Biomaterials, 2001, 22, 1911-1917.	5.7	175
70	Novel non-cytotoxic alginateâ€“lignin hybrid aerogels as scaffolds for tissue engineering. Journal of Supercritical Fluids, 2015, 105, 1-8.	1.6	175
71	Electrospun nanostructured scaffolds for tissue engineering applications. Nanomedicine, 2007, 2, 929-942.	1.7	173
72	Materials of marine origin: a review on polymers and ceramics of biomedical interest. International Materials Reviews, 2012, 57, 276-306.	9.4	173

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73	Tumor Targeting Strategies of Smart Fluorescent Nanoparticles and Their Applications in Cancer Diagnosis and Treatment. Advanced Materials, 2019, 31, e1902409.	11.1	173
74	Development of Injectable Hyaluronic Acid/Cellulose Nanocrystals Bionanocomposite Hydrogels for Tissue Engineering Applications. Bioconjugate Chemistry, 2015, 26, 1571-1581.	1.8	172
75	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
76	Endothelial cell colonization and angiogenic potential of combined nano- and micro-fibrous scaffolds for bone tissue engineering. Biomaterials, 2008, 29, 4306-4313.	5.7	167
77	Osteogenic Induction of Human Bone Marrow-Derived Mesenchymal Progenitor Cells in Novel Synthetic Polymerâ€"Hydrogel Matrices. Tissue Engineering, 2003, 9, 689-702.	4.9	165
78	Carrageenan-Based Hydrogels for the Controlled Delivery of PDGF-BB in Bone Tissue Engineering Applications. Biomacromolecules, 2009, 10, 1392-1401.	2.6	165
79	Could 3D models of cancer enhance drug screening?. Biomaterials, 2020, 232, 119744.	5.7	165
80	Dissolution enhancement of active pharmaceutical ingredients by therapeutic deep eutectic systems. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 98, 57-66.	2.0	164
81	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
82	Degradation characteristics of hydroxyapatite coatings on orthopaedic TiAlV in simulated physiological media investigated by electrochemical impedance spectroscopy. Biomaterials, 2003, 24, 4213-4221.	5.7	162
83	A comparison between pure active pharmaceutical ingredients and therapeutic deep eutectic solvents: Solubility and permeability studies. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 114, 296-304.	2.0	162
84	In Vitro Assessment of the Enzymatic Degradation of Several Starch Based Biomaterials. Biomacromolecules, 2003, 4, 1703-1712.	2.6	160
85	Osteogenic induction of hBMSCs by electrospun scaffolds with dexamethasone release functionality. Biomaterials, 2010, 31, 5875-5885.	5.7	160
86	Thermoresponsive self-assembled elastin-based nanoparticles for delivery of BMPs. Journal of Controlled Release, 2010, 142, 312-318.	4.8	159
87	Cell Delivery Systems Using Alginateâ€"Carrageenan Hydrogel Beads and Fibers for Regenerative Medicine Applications. Biomacromolecules, 2011, 12, 3952-3961.	2.6	156
88	A practical perspective on ulvan extracted from green algae. Journal of Applied Phycology, 2013, 25, 407-424.	1.5	156
89	Cartilage Tissue Engineering Using Electrospun PCL Nanofiber Meshes and MSCs. Biomacromolecules, 2010, 11, 3228-3236.	2.6	155
90	Organ-on-chip models of cancer metastasis for future personalized medicine: From chip to the patient. Biomaterials, 2017, 149, 98-115.	5.7	155

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91	Antibacterial activity of chitosan nanofiber meshes with liposomes immobilized releasing gentamicin. Acta Biomaterialia, 2015, 18, 196-205.	4.1	154
92	New partially degradable and bioactive acrylic bone cements based on starch blends and ceramic fillers. Biomaterials, 2002, 23, 1883-1895.	5.7	152
93	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. Biomatter, 2012, 2, 278-289.	2.6	151
94	Development of new chitosan/carrageenan nanoparticles for drug delivery applications. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1265-1272.	2.1	150
95	Collagen-based bioinks for hard tissue engineering applications: a comprehensive review. Journal of Materials Science: Materials in Medicine, 2019, 30, 32.	1.7	150
96	Chitosan Scaffolds Containing Hyaluronic Acid for Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2011, 17, 717-730.	1.1	149
97	Nanoparticles for bone tissue engineering. Biotechnology Progress, 2017, 33, 590-611.	1.3	149
98	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
99	Electrospinning: processing technique for tissue engineering scaffolding. International Materials Reviews, 2008, 53, 257-274.	9.4	147
100	Novel Starch-Based Scaffolds for Bone Tissue Engineering: Cytotoxicity, Cell Culture, and Protein Expression. Tissue Engineering, 2004, 10, 465-474.	4.9	145
101	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
102	Designing biomaterials based on biomineralization of bone. Journal of Materials Chemistry, 2010, 20, 2911.	6.7	144
103	Distinct Stem Cells Subpopulations Isolated from Human Adipose Tissue Exhibit Different Chondrogenic and Osteogenic Differentiation Potential. Stem Cell Reviews and Reports, 2011, 7, 64-76.	5.6	143
104	Colorectal tumor-on-a-chip system: A 3D tool for precision onco-nanomedicine. Science Advances, 2019, 5, eaaw1317.	4.7	143
105	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
106	Co-assembly, spatiotemporal control and morphogenesis of a hybrid proteinâ€"peptide system. Nature Chemistry, 2015, 7, 897-904.	6.6	142
107	Starchâ€"poly(Îµâ€caprolactone) and starchâ€"poly(lactic acid) fibreâ€mesh scaffolds for bone tissue engineering applications: structure, mechanical properties and degradation behaviour. Journal of Tissue Engineering and Regenerative Medicine, 2008, 2, 243-252.	1.3	140
108	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

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109	Adipose Tissue-Derived Stem Cells and Their Application in Bone and Cartilage Tissue Engineering. Tissue Engineering - Part B: Reviews, 2009, 15, 113-125.	2.5	139
110	Design of controlled release systems for THEDESâ€"Therapeutic deep eutectic solvents, using supercritical fluid technology. International Journal of Pharmaceutics, 2015, 492, 73-79.	2.6	139
111	Silk fibroin for skin injury repair: Where do things stand?. Advanced Drug Delivery Reviews, 2020, 153, 28-53.	6.6	139
112	Bilayered chitosan-based scaffolds for osteochondral tissue engineering: Influence of hydroxyapatite on in vitro cytotoxicity and dynamic bioactivity studies in a specific double-chamber bioreactor. Acta Biomaterialia, 2009, 5, 644-660.	4.1	137
113	Inhibition of human neutrophil oxidative burst by pyrazolone derivatives. Free Radical Biology and Medicine, 2006, 40, 632-640.	1.3	135
114	Porous starch-based drug delivery systems processed by a microwave route. Journal of Biomaterials Science, Polymer Edition, 2001, 12, 1227-1241.	1.9	133
115	Tissue Engineering and Regenerative Medicine: New Trends and Directionsâ€"A Year in Review. Tissue Engineering - Part B: Reviews, 2017, 23, 211-224.	2.5	133
116	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. , 2018, 184, 201-211.		133
117	Engineering tendon and ligament tissues: present developments towards successful clinical products. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 673-686.	1.3	132
118	Plasma Surface Modification of Chitosan Membranes: Characterization and Preliminary Cell Response Studies. Macromolecular Bioscience, 2008, 8, 568-576.	2.1	131
119	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
120	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
121	The potential of hyaluronic acid in immunoprotection and immunomodulation: Chemistry, processing and function. Progress in Materials Science, 2018, 97, 97-122.	16.0	131
122	Cosmetic Potential of Marine Fish Skin Collagen. Cosmetics, 2017, 4, 39.	1.5	130
123	The effects of peptide modified gellan gum and olfactory ensheathing glia cells on neural stem/progenitor cell fate. Biomaterials, 2012, 33, 6345-6354.	5.7	129
124	Preparation of macroporous alginate-based aerogels for biomedical applications. Journal of Supercritical Fluids, 2015, 106, 152-159.	1.6	129
125	Glycosaminoglycans from marine sources as therapeutic agents. Biotechnology Advances, 2017, 35, 711-725.	6.0	128
126	Recent progress in gellan gum hydrogels provided by functionalization strategies. Journal of Materials Chemistry B, 2016, 4, 6164-6174.	2.9	126

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127	Recent advances using gold nanoparticles as a promising multimodal tool for tissue engineering and regenerative medicine. Current Opinion in Solid State and Materials Science, 2017, 21, 92-112.	5.6	126
128	Development and properties of polycaprolactone/hydroxyapatite composite biomaterials. Journal of Materials Science: Materials in Medicine, 2003, 14, 103-107.	1.7	125
129	Functionalized silk fibroin nanofibers as drug carriers: Advantages and challenges. Journal of Controlled Release, 2020, 321, 324-347.	4.8	125
130	Chitosan particles agglomerated scaffolds for cartilage and osteochondral tissue engineering approaches with adipose tissue derived stem cells. Journal of Materials Science: Materials in Medicine, 2005, 16, 1077-1085.	1.7	124
131	A comparative analysis of scaffold material modifications for load-bearing applications in bone tissue engineering. International Journal of Oral and Maxillofacial Surgery, 2006, 35, 928-934.	0.7	124
132	Osteogenic differentiation of human mesenchymal stem cells in the absence of osteogenic supplements: A surface-roughness gradient study. Acta Biomaterialia, 2015, 28, 64-75.	4.1	124
133	Functional nanostructured chitosanâ€"siloxane hybrids. Journal of Materials Chemistry, 2005, 15, 3952.	6.7	123
134	Multifunctional biomaterials from the sea: Assessing the effects of chitosan incorporation into collagen scaffolds on mechanical and biological functionality. Acta Biomaterialia, 2016, 43, 160-169.	4.1	123
135	Hydrogel-Based Strategies to Advance Therapies for Chronic Skin Wounds. Annual Review of Biomedical Engineering, 2019, 21, 145-169.	5.7	122
136	Injectable gellan gum hydrogels with autologous cells for the treatment of rabbit articular cartilage defects. Journal of Orthopaedic Research, 2010, 28, 1193-1199.	1.2	121
137	Activated carbons prepared from industrial pre-treated cork: Sustainable adsorbents for pharmaceutical compounds removal. Chemical Engineering Journal, 2014, 253, 408-417.	6.6	121
138	Sodium silicate gel as a precursor for the in vitro nucleation and growth of a bone-like apatite coating in compact and porous polymeric structures. Biomaterials, 2003, 24, 2575-2584.	5.7	120
139	In Vitro Localization of Bone Growth Factors in Constructs of Biodegradable Scaffolds Seeded with Marrow Stromal Cells and Cultured in a Flow Perfusion Bioreactor. Tissue Engineering, 2006, 12, 177-188.	4.9	120
140	Osteogenic Differentiation of Human Bone Marrow Mesenchymal Stem Cells Seeded on Melt Based Chitosan Scaffolds for Bone Tissue Engineering Applications. Biomacromolecules, 2009, 10, 2067-2073.	2.6	120
141	Skin-Integrated Wearable Systems and Implantable Biosensors: A Comprehensive Review. Biosensors, 2020, 10, 79.	2.3	120
142	Chitosan/polyester-based scaffolds for cartilage tissue engineering: Assessment of extracellular matrix formation. Acta Biomaterialia, 2010, 6, 1149-1157.	4.1	118
143	An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. Acta Biomaterialia, 2013, 9, 6790-6797.	4.1	118
144	Response of micro- and macrovascular endothelial cells to starch-based fiber meshes for bone tissue engineering. Biomaterials, 2007, 28, 240-248.	5.7	116

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145	Diatom silica microparticles for sustained release and permeation enhancement following oral delivery of prednisone and mesalamine. Biomaterials, 2013, 34, 9210-9219.	5.7	116
146	Bioactive glass/polymer composite scaffolds mimicking bone tissue. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2654-2667.	2.1	115
147	Engineering bioinks for 3D bioprinting. Biofabrication, 2021, 13, 032001.	3.7	115
148	New starch-based thermoplastic hydrogels for use as bone cements or drug-delivery carriers. Journal of Materials Science: Materials in Medicine, 1998, 9, 825-833.	1.7	114
149	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
150	Effect of chitosan membrane surface modification via plasma induced polymerization on the adhesion of osteoblast-like cells. Journal of Materials Chemistry, 2007, 17, 4064.	6.7	112
151	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
152	The secretome of stem cells isolated from the adipose tissue and Wharton jelly acts differently on central nervous system derived cell populations. Stem Cell Research and Therapy, 2012, 3, 18.	2.4	111
153	Nanoparticulate bioactive-glass-reinforced gellan-gum hydrogels for bone-tissue engineering. Materials Science and Engineering C, 2014, 43, 27-36.	3.8	110
154	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. Acta Biomaterialia, 2018, 77, 155-171.	4.1	109
155	Microstructural characterization of glass-reinforced hydroxyapatite composites. Biomaterials, 1994, 15, 5-10.	5.7	108
156	Physical properties and biocompatibility of chitosan/soy blended membranes. Journal of Materials Science: Materials in Medicine, 2005, 16, 575-579.	1.7	108
157	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
158	Thermal and Thermomechanical Behaviour of Polycaprolactone and Starch/Polycaprolactone Blends for Biomedical Applications. Macromolecular Materials and Engineering, 2005, 290, 792-801.	1.7	107
159	Morphology and miscibility of chitosan/soy protein blended membranes. Carbohydrate Polymers, 2007, 70, 25-31.	5.1	107
160	Tissue Engineering and Regenerative Medicine. International Review of Neurobiology, 2013, 108, 1-33.	0.9	107
161	In Vitro Model of Vascularized Bone: Synergizing Vascular Development and Osteogenesis. PLoS ONE, 2011, 6, e28352.	1.1	107
162	Processing andin vitro Degradation of Starch/EVOH Thermoplastic Blends. Polymer International, 1997, 43, 347-352.	1.6	106

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163	Extraction and physico-chemical characterization of a versatile biodegradable polysaccharide obtained from green algae. Carbohydrate Research, 2010, 345, 2194-2200.	1.1	106
164	Layerâ€byâ€Layer Assembly of Lightâ€Responsive Polymeric Multilayer Systems. Advanced Functional Materials, 2014, 24, 5624-5648.	7.8	106
165	3D Mimicry of Nativeâ€Tissueâ€Fiber Architecture Guides Tendonâ€Derived Cells and Adipose Stem Cells into Artificial Tendon Constructs. Small, 2017, 13, 1700689.	5.2	106
166	Preliminary study on the adhesion and proliferation of human osteoblasts on starch-based scaffolds. Materials Science and Engineering C, 2002, 20, 27-33.	3.8	105
167	Effect of monocytes/macrophages on the early osteogenic differentiation of hBMSCs. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 392-400.	1.3	105
168	Light-triggered release of photocaged therapeutics - Where are we now?. Journal of Controlled Release, 2019, 298, 154-176.	4.8	105
169	Nanostructured 3D Constructs Based on Chitosan and Chondroitin Sulphate Multilayers for Cartilage Tissue Engineering. PLoS ONE, 2013, 8, e55451.	1.1	105
170	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
171	The osteogenic differentiation of SSEA-4 sub-population of human adipose derived stem cells using silicate nanoplatelets. Biomaterials, 2014, 35, 9087-9099.	5.7	104
172	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
173	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
174	Wettability Influences Cell Behavior on Superhydrophobic Surfaces with Different Topographies. Biointerphases, 2012, 7, 46.	0.6	103
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