J Miguel Oliveira

List of Publications by Year
in descending order

340 papers	13,552 citations	23544 58 h-index	31818 101 g-index
364 all docs	364 docs citations	364 times ranked	15405 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	Naturalâ€Based Nanocomposites for Bone Tissue Engineering and Regenerative Medicine: A Review. Advanced Materials, 2015, 27, 1143-1169.	11.1	743
3	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
4	Scaffold Fabrication Technologies and Structure/Function Properties in Bone Tissue Engineering. Advanced Functional Materials, 2021, 31, 2010609.	7.8	370
5	Scaffolding Strategies for Tissue Engineering and Regenerative Medicine Applications. Materials, 2019, 12, 1824.	1.3	309
6	Genipinâ€crossâ€linked collagen/chitosan biomimetic scaffolds for articular cartilage tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2010, 95A, 465-475.	2.1	291
7	Macro/microporous silk fibroin scaffolds with potential for articular cartilage and meniscus tissue engineering applications. Acta Biomaterialia, 2012, 8, 289-301.	4.1	276
8	Gellan gum-based hydrogels for intervertebral disc tissue-engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2011, 5, e97-e107.	1.3	201
9	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
10	Materials of marine origin: a review on polymers and ceramics of biomedical interest. International Materials Reviews, 2012, 57, 276-306.	9.4	173
11	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
12	Could 3D models of cancer enhance drug screening?. Biomaterials, 2020, 232, 119744.	5.7	165
13	Organ-on-chip models of cancer metastasis for future personalized medicine: From chip to the patient. Biomaterials, 2017, 149, 98-115.	5.7	155
14	Collagen-based bioinks for hard tissue engineering applications: a comprehensive review. Journal of Materials Science: Materials in Medicine, 2019, 30, 32.	1.7	150
15	Nanoparticles for bone tissue engineering. Biotechnology Progress, 2017, 33, 590-611.	1.3	149
16	Colorectal tumor-on-a-chip system: A 3D tool for precision onco-nanomedicine. Science Advances, 2019, 5, eaaw1317.	4.7	143
17	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
18	Emerging tumor spheroids technologies for 3D in vitro cancer modeling. , 2018, 184, 201-211.		133

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19	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
20	The potential of hyaluronic acid in immunoprotection and immunomodulation: Chemistry, processing and function. Progress in Materials Science, 2018, 97, 97-122.	16.0	131
21	Recent progress in gellan gum hydrogels provided by functionalization strategies. Journal of Materials Chemistry B, 2016, 4, 6164-6174.	2.9	126
22	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
23	Engineering bioinks for 3D bioprinting. Biofabrication, 2021, 13, 032001.	3.7	115
24	Nanoparticulate bioactive-glass-reinforced gellan-gum hydrogels for bone-tissue engineering. Materials Science and Engineering C, 2014, 43, 27-36.	3.8	110
25	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. Acta Biomaterialia, 2018, 77, 155-171.	4.1	109
26	Tissue Engineering and Regenerative Medicine. International Review of Neurobiology, 2013, 108, 1-33.	0.9	107
27	Tissue Engineering and Regenerative Medicine Strategies in Meniscus Lesions. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2011, 27, 1706-1719.	1.3	100
28	Evaluating Biomaterial- and Microfluidic-Based 3D Tumor Models. Trends in Biotechnology, 2015, 33, 667-678.	4.9	99
29	Peripheral Nerve Injury: Current Challenges, Conventional Treatment Approaches, and New Trends in Biomaterials-Based Regenerative Strategies. ACS Biomaterials Science and Engineering, 2017, 3, 3098-3122.	2.6	99
30	Current strategies for treatment of intervertebral disc degeneration: substitution and regeneration possibilities. Biomaterials Research, 2017, 21, 22.	3.2	94
31	Combinatory approach for developing silk fibroin scaffolds for cartilage regeneration. Acta Biomaterialia, 2018, 72, 167-181.	4.1	93
32	Knee donor-site morbidity after mosaicplasty â€" a systematic review. Journal of Experimental Orthopaedics, 2016, 3, 31.	0.8	92
33	Microglia Response and In Vivo Therapeutic Potential of Methylprednisoloneâ€Loaded Dendrimer Nanoparticles in Spinal Cord Injury. Small, 2013, 9, 738-749.	5.2	91
34	Biocompatibility Evaluation of Ionicâ€•and Photoâ€Crosslinked Methacrylated Gellan Gum Hydrogels: In Vitro and In Vivo Study. Advanced Healthcare Materials, 2013, 2, 568-575.	3.9	91
35	Adaptable hydrogel with reversible linkages for regenerative medicine: Dynamic mechanical microenvironment for cells. Bioactive Materials, 2021, 6, 1375-1387.	8.6	90
36	Angiogenic Potential of Gellan-Gum-Based Hydrogels for Application in Nucleus Pulposus Regeneration: <i>In Vivo</i> Study. Tissue Engineering - Part A, 2012, 18, 1203-1212.	1.6	89

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37	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
38	Scaffolds and coatings for bone regeneration. Journal of Materials Science: Materials in Medicine, 2020, 31, 27.	1.7	86
39	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
40	Enzymatically Cross-Linked Silk Fibroin-Based Hierarchical Scaffolds for Osteochondral Regeneration. ACS Applied Materials & Interfaces, 2019, 11, 3781-3799.	4.0	83
41	Dendrimer nanoparticles for colorectal cancer applications. Journal of Materials Chemistry B, 2020, 8, 1128-1138.	2.9	81
42	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
43	Biopolymers and polymers in the search of alternative treatments for meniscal regeneration: State of the art and future trends. Applied Materials Today, 2018, 12, 51-71.	2.3	76
44	3D biosensors in advanced medical diagnostics of high mortality diseases. Biosensors and Bioelectronics, 2019, 130, 20-39.	5.3	76
45	Fast Setting Silk Fibroin Bioink for Bioprinting of Patientâ€Specific Memoryâ€Shape Implants. Advanced Healthcare Materials, 2017, 6, 1701021.	3.9	74
46	Management of knee osteoarthritis. Current status and future trends. Biotechnology and Bioengineering, 2017, 114, 717-739.	1.7	74
47	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
48	Cartilage Repair Using Hydrogels: A Critical Review of in Vivo Experimental Designs. ACS Biomaterials Science and Engineering, 2015, 1, 726-739.	2.6	73
49	Micro-CT â€" a digital 3D microstructural voyage into scaffolds: a systematic review of the reported methods and results. Biomaterials Research, 2018, 22, 26.	3.2	70
50	Basic science of osteoarthritis. Journal of Experimental Orthopaedics, 2016, 3, 22.	0.8	69
51	Current trends in tendinopathy: consensus of the ESSKA basic science committee. Part I: biology, biomechanics, anatomy and an exercise-based approach. Journal of Experimental Orthopaedics, 2017, 4, 18.	0.8	69
52	The Meniscus in Normal and Osteoarthritic Tissues: Facing the Structure Property Challenges and Current Treatment Trends. Annual Review of Biomedical Engineering, 2019, 21, 495-521.	5.7	68
53	Nanotechnology in peripheral nerve repair and reconstruction. Advanced Drug Delivery Reviews, 2019, 148, 308-343.	6.6	66
54	Rapidly responsive silk fibroin hydrogels as an artificial matrix for the programmed tumor cells death. PLoS ONE, 2018, 13, e0194441.	1.1	65

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55	Intra-articular injection of culture-expanded mesenchymal stem cells with or without addition of platelet-rich plasma is effective in decreasing pain and symptoms in knee osteoarthritis: a controlled, double-blind clinical trial. Knee Surgery, Sports Traumatology, Arthroscopy, 2020, 28, 1989-1999.	2.3	64
56	Ex vivo culturing of stromal cells with dexamethasone-loaded carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles promotes ectopic bone formation. Bone, 2010, 46, 1424-1435.	1.4	63
57	Tissue engineering strategies applied in the regeneration of the human intervertebral disk. Biotechnology Advances, 2013, 31, 1514-1531.	6.0	63
58	Hydrogels in acellular and cellular strategies for intervertebral disc regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 85-98.	1.3	62
59	Tumor Growth Suppression Induced by Biomimetic Silk Fibroin Hydrogels. Scientific Reports, 2016, 6, 31037.	1.6	62
60	Migration of â€œbioabsorbableâ€•screws in ACL repair. How much do we know? A systematic review. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 986-994.	2.3	60
61	Bioactive macro/micro porous silk fibroin/nano-sized calcium phosphate scaffolds with potential for bone-tissue-engineering applications. Nanomedicine, 2013, 8, 359-378.	1.7	60
62	Assessment of rotatory laxity in anterior cruciate ligament-deficient knees using magnetic resonance imaging with Porto-knee testing device. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 671-678.	2.3	59
63	Nanocellulose reinforced gellan-gum hydrogels as potential biological substitutes for annulus fibrosus tissue regeneration. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 897-908.	1.7	59
64	Current Concepts and Challenges in Osteochondral Tissue Engineering and Regenerative Medicine. ACS Biomaterials Science and Engineering, 2015, 1, 183-200.	2.6	58
65	Building the basis for patient-specific meniscal scaffolds: From human knee MRI to fabrication of 3D printed scaffolds. Bioprinting, 2016, 1-2, 1-10.	2.9	58
66	Ion-doped Brushite Cements for Bone Regeneration. Acta Biomaterialia, 2021, 123, 51-71.	4.1	58
67	Engineering nanoparticles for targeting rheumatoid arthritis: Past, present, and future trends. Nano Research, 2018, 11, 4489-4506.	5.8	57
68	Surface Engineered Carboxymethylchitosan/Poly(amidoamine) Dendrimer Nanoparticles for Intracellular Targeting. Advanced Functional Materials, 2008, 18, 1840-1853.	7.8	56
69	Current concepts: tissue engineering and regenerative medicine applications in the ankle joint. Journal of the Royal Society Interface, 2014, 11, 20130784.	1.5	55
70	Anti-Cancer Drug Validation: the Contribution of Tissue Engineered Models. Stem Cell Reviews and Reports, 2017, 13, 347-363.	5.6	52
71	Hydrogels for nucleus replacementâ€"Facing the biomechanical challenge. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 14, 67-77.	1.5	51
72	Hydrogel-based scaffolds to support intrathecal stem cell transplantation as a gateway to the spinal cord: clinical needs, biomaterials, and imaging technologies. Npj Regenerative Medicine, 2018, 3, 8.	2.5	51

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73	Self-mineralizing Ca-enriched methacrylated gellan gum beads for bone tissue engineering. Acta Biomaterialia, 2019, 93, 74-85.	4.1	51
74	Mechanical Property of Hydrogels and the Presence of Adipose Stem Cells in Tumor Stroma Affect Spheroid Formation in the 3D Osteosarcoma Model. ACS Applied Materials & Interfaces, 2019, 11, 14548-14559.	4.0	51
75	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
76	Silk-based anisotropical 3D biotextiles for bone regeneration. Biomaterials, 2017, 123, 92-106.	5.7	48
77	METTL3 promotes oxaliplatin resistance of gastric cancer CD133+â€‰stem cells by promoting PARP1 mRNA stability. Cellular and Molecular Life Sciences, 2022, 79, 135.	2.4	47
78	Gellan Gum-Based Hydrogel Bilayered Scaffolds for Osteochondral Tissue Engineering. Key Engineering Materials, 2013, 587, 255-260.	0.4	46
79	Custom-tailored tissue engineered polycaprolactone scaffolds for total disc replacement. Biofabrication, 2015, 7, 015008.	3.7	46
80	In vitro evaluation of the behaviour of human polymorphonuclear neutrophils in direct contact with chitosan-based membranes. Journal of Biotechnology, 2007, 132, 218-226.	1.9	45
81	Novel hydroxyapatite/carboxymethylchitosan composite scaffolds prepared through an innovative â€œautocatalyticâ€•electroless coprecipitation route. Journal of Biomedical Materials Research - Part A, 2009, 88A, 470-480.	2.1	45
82	Galactooligosaccharides production by Î²-galactosidase immobilized onto magnetic polysiloxaneâ€“polyaniline particles. Reactive and Functional Polymers, 2009, 69, 246-251.	2.0	45
83	Bioceramics for Osteochondral Tissue Engineering and Regeneration. Advances in Experimental Medicine and Biology, 2018, 1058, 53-75.	0.8	45
84	Biochemical Gradients to Generate 3D Heterotypicâ€Like Tissues with Isotropic and Anisotropic Architectures. Advanced Functional Materials, 2018, 28, 1804148.	7.8	45
85	Gellan gum-coated gold nanorods: an intracellular nanosystem for bone tissue engineering. RSC Advances, 2015, 5, 77996-78005.	1.7	44
86	Tumor-Targeting Polycaprolactone Nanoparticles with Codelivery of Paclitaxel and IR780 for Combinational Therapy of Drug-Resistant Ovarian Cancer. ACS Biomaterials Science and Engineering, 2020, 6, 2175-2185.	2.6	44
87	Meniscal allograft transplants and new scaffolding techniques. EFORT Open Reviews, 2019, 4, 279-295.	1.8	43
88	<i>In Vivo</i>Performance of Chitosan/Soy-Based Membranes as Wound-Dressing Devices for Acute Skin Wounds. Tissue Engineering - Part A, 2013, 19, 860-869.	1.6	42
89	Investigation of cell adhesion in chitosan membranes for peripheral nerve regeneration. Materials Science and Engineering C, 2017, 71, 1122-1134.	3.8	42
90	Hyaluronic Acid. Advances in Experimental Medicine and Biology, 2018, 1059, 137-153.	0.8	42

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91	Recent approaches towards bone tissue engineering. Bone, 2022, 154, 116256.	1.4	42
92	Biological performance of cell-encapsulated methacrylated gellan gum-based hydrogels for nucleus pulposus regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 637-648.	1.3	41
93	Silk Fibroin-Based Scaffold for Bone Tissue Engineering. Advances in Experimental Medicine and Biology, 2018, 1077, 371-387.	0.8	41
94	Exosome mediated transfer of miRNAâ€140 promotes enhanced chondrogenic differentiation of bone marrow stem cells for enhanced cartilage repair and regeneration. Journal of Cellular Biochemistry, 2020, 121, 3642-3652.	1.2	41
95	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. Chemistry of Materials, 2020, 32, 8733-8746.	3.2	40
96	Amperometric Glucose Biosensor Based on Assisted Ion Transfer through Gel-Supported Microinterfaces. Analytical Chemistry, 2004, 76, 5547-5551.	3.2	39
97	Development of nanofiberâ€reinforced hydrogel scaffolds for nucleus pulposus regeneration by a combination of electrospinning and spraying technique. Journal of Applied Polymer Science, 2013, 128, 1158-1163.	1.3	39
98	In vivo biofunctional evaluation of hydrogels for disc regeneration. European Spine Journal, 2014, 23, 19-26.	1.0	39
99	Revealing the potential of squid chitosan-based structures for biomedical applications. Biomedical Materials (Bristol), 2013, 8, 045002.	1.7	38
100	Injectable gellan-gum/hydroxyapatite-based bilayered hydrogel composites for osteochondral tissue regeneration. Applied Materials Today, 2018, 12, 309-321.	2.3	38
101	Osteochondral transplantation using autografts from the upper tibio-fibular joint for the treatment of knee cartilage lesions. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 1136-1142.	2.3	37
102	Arthroscopic Repair of Ankle Instability With All-Soft Knotless Anchors. Arthroscopy Techniques, 2016, 5, e99-e107.	0.5	37
103	<i>In vitro</i> and <i>in vivo</i> performance of methacrylated gellan gum hydrogel formulations for cartilage repair*. Journal of Biomedical Materials Research - Part A, 2018, 106, 1987-1996.	2.1	37
104	Vascularization Approaches in Tissue Engineering: Recent Developments on Evaluation Tests and Modulation. ACS Applied Bio Materials, 2021, 4, 2941-2956.	2.3	37
105	Biofunctional Ionic-Doped Calcium Phosphates: Silk Fibroin Composites for Bone Tissue Engineering Scaffolding. Cells Tissues Organs, 2017, 204, 150-163.	1.3	37
106	Engineering patient-specific bioprinted constructs for treatment of degenerated intervertebral disc. Materials Today Communications, 2019, 19, 506-512.	0.9	36
107	Advanced Biomaterials and Processing Methods for Liver Regeneration: Stateâ€ofâ€theâ€Art and Future Trends. Advanced Healthcare Materials, 2020, 9, e1901435.	3.9	36
108	Novel poly(<scp>L</scp>â€lactic acid)/hyaluronic acid macroporous hybrid scaffolds: Characterization and assessment of cytotoxicity. Journal of Biomedical Materials Research - Part A, 2010, 94A, 856-869.	2.1	35

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109	Prevalence of Articular Cartilage Lesions and Surgical Clinical Outcomes in Football (Soccer) Playersâ€™ Knees: A Systematic Review. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2016, 32, 1466-1477.	1.3	35
110	In vivo study of dendronlike nanoparticles for stem cells â€œtune-upâ€ from nano to tissues. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 914-924.	1.7	34
111	Quantitative assessment of the regenerative and mineralogenic performances of the zebrafish caudal fin. Scientific Reports, 2016, 6, 39191.	1.6	34
112	Current trends in tendinopathy: consensus of the ESSKA basic science committee. Part II: treatment options. Journal of Experimental Orthopaedics, 2018, 5, 38.	0.8	34
113	Gellan Gum-based luminal fillers for peripheral nerve regeneration: an<i>in vivo</i>study in the rat sciatic nerve repair model. Biomaterials Science, 2018, 6, 1059-1075.	2.6	33
114	Tunable anisotropic networks for 3-D oriented neural tissue models. Biomaterials, 2018, 181, 402-414.	5.7	33
115	Tissue Engineering Strategies for Osteochondral Repair. Advances in Experimental Medicine and Biology, 2018, 1059, 353-371.	0.8	33
116	Peptideâ€Modified Dendrimer Nanoparticles for Targeted Therapy of Colorectal Cancer. Advanced Therapeutics, 2019, 2, 1900132.	1.6	33
117	Enhanced performance of chitosan/keratin membranes with potential application in peripheral nerve repair. Biomaterials Science, 2019, 7, 5451-5466.	2.6	33
118	Tunable Enzymatically Crossâ€Linked Silk Fibroin Tubular Conduits for Guided Tissue Regeneration. Advanced Healthcare Materials, 2018, 7, e1800186.	3.9	32
119	Engineering Silk Fibroinâ€Based Nerve Conduit with Neurotrophic Factors for Proximal Protection after Peripheral Nerve Injury. Advanced Healthcare Materials, 2021, 10, e2000753.	3.9	32
120	Calcium-phosphate derived from mineralized algae for bone tissue engineering applications. Materials Letters, 2007, 61, 3495-3499.	1.3	31
121	Biological evaluation of intervertebral disc cells in different formulations of gellan gum-based hydrogels. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 265-275.	1.3	31
122	Micro-CT based finite element modelling and experimental characterization of the compressive mechanical properties of 3-D zirconia scaffolds for bone tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103516.	1.5	31
123	Marine collagen-chitosan-fucoidan cryogels as cell-laden biocomposites envisaging tissue engineering. Biomedical Materials (Bristol), 2020, 15, 055030.	1.7	31
124	Natural Polymers in tissue engineering applications. , 2008, , 145-192.		29
125	Multifunctionalized CMCht/PAMAM Dendrimer Nanoparticles Modulate the Cellular Uptake by Astrocytes and Oligodendrocytes in Primary Cultures of Glial Cells. Macromolecular Bioscience, 2012, 12, 591-597.	2.1	29
126	De novo bone formation on macro/microporous silk and silk/nano-sized calcium phosphate scaffolds. Journal of Bioactive and Compatible Polymers, 2013, 28, 439-452.	0.8	29

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127	Optical projection tomography as a tool for 3D imaging of hydrogels. Biomedical Optics Express, 2014, 5, 3443.	1.5	29
128	Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. European Polymer Journal, 2019, 120, 109226.	2.6	29
129	Suturable regenerated silk fibroin scaffold reinforced with 3D-printed polycaprolactone mesh: biomechanical performance and subcutaneous implantation. Journal of Materials Science: Materials in Medicine, 2019, 30, 63.	1.7	29
130	Comparison between calcium carbonate and Î²â€tricalcium phosphate as additives of 3D printed scaffolds with polylactic acid matrix. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 272-283.	1.3	29
131	Alternative methodology for chitinâ€"hydroxyapatite composites using ionic liquids and supercritical fluid technology. Journal of Bioactive and Compatible Polymers, 2013, 28, 481-491.	0.8	28
132	Orthopaedic regenerative tissue engineering en route to the holy grail: disequilibrium between the demand and the supply in the operating room. Journal of Experimental Orthopaedics, 2018, 5, 14.	0.8	28
133	Silk Fibroin-Based Hydrogels and Scaffolds for Osteochondral Repair and Regeneration. Advances in Experimental Medicine and Biology, 2018, 1058, 305-325.	0.8	27
134	Biological performance of a promising Kefiran-biopolymer with potential in regenerative medicine applications: a comparative study with hyaluronic acid. Journal of Materials Science: Materials in Medicine, 2018, 29, 124.	1.7	27
135	Kefiran cryogels as potential scaffolds for drug delivery and tissue engineering applications. Materials Today Communications, 2019, 20, 100554.	0.9	27
136	Micro-computed tomography characterization of tissue engineering scaffolds: effects of pixel size and rotation step. Journal of Materials Science: Materials in Medicine, 2017, 28, 129.	1.7	26
137	Incorporation of resident macrophages in engineered tissues: Multiple cell type response to microenvironment controlled macrophageâ€laden gelatine hydrogels. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 330-340.	1.3	26
138	Kefiran biopolymer: Evaluation of its physicochemical and biological properties. Journal of Bioactive and Compatible Polymers, 2018, 33, 461-478.	0.8	26
139	Advances in bioinks and in vivo imaging of biomaterials for CNS applications. Acta Biomaterialia, 2019, 95, 60-72.	4.1	26
140	Anti-Inflammatory Properties of Injectable Betamethasone-Loaded Tyramine-Modified Gellan Gum/Silk Fibroin Hydrogels. Biomolecules, 2020, 10, 1456.	1.8	26
141	Enzymatically crosslinked tyramine-gellan gum hydrogels as drug delivery system for rheumatoid arthritis treatment. Drug Delivery and Translational Research, 2021, 11, 1288-1300.	3.0	26
142	Carboxymethylchitosan/Poly(amidoamine) Dendrimer Nanoparticles in Central Nervous Systemsâ€Regenerative Medicine: Effects on Neuron/Glial Cell Viability and Internalization Efficiency. Macromolecular Bioscience, 2010, 10, 1130-1140.	2.1	25
143	In vitroevaluation of the biological performance of macro/micro-porous silk fibroin and silk-nano calcium phosphate scaffolds. , 2015, 103, 888-898.		25
144	Gellan Gum-Based Hydrogels for Osteochondral Repair. Advances in Experimental Medicine and Biology, 2018, 1058, 281-304.	0.8	25

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145	Fundamentals and Current Strategies for Peripheral Nerve Repair and Regeneration. Advances in Experimental Medicine and Biology, 2020, 1249, 173-201.	0.8	25
146	Physicochemical Characterization of Novel Chitosan-Soy Protein/ TEOS Porous Hybrids for Tissue Engineering Applications. Materials Science Forum, 2006, 514-516, 1000-1004.	0.3	24
147	Optical Projection Tomography Technique for Image Texture and Mass Transport Studies in Hydrogels Based on Gellan Gum. Langmuir, 2016, 32, 5173-5182.	1.6	24
148	Core-shell silk hydrogels with spatially tuned conformations as drug-delivery system. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3168-3177.	1.3	24
149	Tuning Enzymatically Crosslinked Silk Fibroin Hydrogel Properties for the Development of a Colorectal Cancer Extravasation 3D Model on a Chip. Global Challenges, 2018, 2, 1700100.	1.8	24
150	Biofunctionalized Lysophosphatidic Acid/Silk Fibroin Film for Cornea Endothelial Cell Regeneration. Nanomaterials, 2018, 8, 290.	1.9	24
151	Lactoferrin-Hydroxyapatite Containing Spongy-Like Hydrogels for Bone Tissue Engineering. Materials, 2019, 12, 2074.	1.3	24
152	Silk fibroin promotes mineralization of gellan gum hydrogels. International Journal of Biological Macromolecules, 2020, 153, 1328-1334.	3.6	24
153	Mimicking the 3D biology of osteochondral tissue with microfluidic-based solutions: breakthroughs towards boosting drug testing and discovery. Drug Discovery Today, 2018, 23, 711-718.	3.2	23
154	A soft 3D polyacrylate hydrogel recapitulates the cartilage niche and allows growth-factor free tissue engineering of human articular cartilage. Acta Biomaterialia, 2019, 90, 146-156.	4.1	23
155	Functionally graded additive manufacturing to achieve functionality specifications of osteochondral scaffolds. Bio-Design and Manufacturing, 2018, 1, 69-75.	3.9	22
156	Silk Fibroin/Nano-CaP Bilayered Scaffolds for Osteochondral Tissue Engineering. Key Engineering Materials, 0, 587, 245-248.	0.4	21
157	Methacrylated gellan gum and hyaluronic acid hydrogel blends for image-guided neurointerventions. Journal of Materials Chemistry B, 2020, 8, 5928-5937.	2.9	21
158	PAMAM dendrimers functionalised with an anti-TNF Î± antibody and chondroitin sulphate for treatment of rheumatoid arthritis. Materials Science and Engineering C, 2021, 121, 111845.	3.8	21
159	Mead production: effect of nitrogen supplementation on growth, fermentation profile and aroma formation by yeasts in mead fermentation. Journal of the Institute of Brewing, 2015, 121, 122-128.	0.8	20
160	Segmental and regional quantification of 3D cellular density of human meniscus from osteoarthritic knee. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1844-1852.	1.3	20
161	Cartilage Restoration of Patellofemoral Lesions: A Systematic Review. Cartilage, 2021, 13, 57S-73S.	1.4	20
162	Hydrogels in the treatment of rheumatoid arthritis: drug delivery systems and artificial matrices for dynamic in vitro models. Journal of Materials Science: Materials in Medicine, 2021, 32, 74.	1.7	20

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163	Bonelikeï¿½/PLGA hybrid materials for bone regeneration: Preparation route and physicochemical characterisation. Journal of Materials Science: Materials in Medicine, 2005, 16, 253-259.	1.7	19
164	In vivo biodistribution of carboxymethylchitosan/poly(amidoamine) dendrimer nanoparticles in rats. Journal of Bioactive and Compatible Polymers, 2011, 26, 619-627.	0.8	19
165	Natural Polymers in Tissue Engineering Applications. , 2013, , 385-425.		19
166	A semiautomated microfluidic platform for real-time investigation of nanoparticlesâ€™ cellular uptake and cancer cellsâ€™ tracking. Nanomedicine, 2017, 12, 581-596.	1.7	19
167	Antiâ€angiogenic potential of VEGF blocker dendron loaded on to gellan gum hydrogels for tissue engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e669-e678.	1.3	19
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