

Manuela E Gomes

List of Publications by Year in descending order

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250
papers

13,582
citations

19636

61
h-index

29127

104
g-index

254
all docs

254
docs citations

254
times ranked

14387
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioactive Silicate Nanoplatelets for Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>Advanced Materials</i> , 2013, 25, 3329-3336.	11.1	448
2	The Potential of Cellulose Nanocrystals in Tissue Engineering Strategies. <i>Biomacromolecules</i> , 2014, 15, 2327-2346.	2.6	417
3	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.	5.7	411
4	A new approach based on injection moulding to produce biodegradable starch-based polymeric scaffolds: morphology, mechanical and degradation behaviour. <i>Biomaterials</i> , 2001, 22, 883-889.	5.7	354
5	Modified Gellan Gum hydrogels with tunable physical and mechanical properties. <i>Biomaterials</i> , 2010, 31, 7494-7502.	5.7	342
6	Effect of flow perfusion on the osteogenic differentiation of bone marrow stromal cells cultured on starch-based three-dimensional scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 67A, 87-95.	3.0	326
7	Nano- and micro-fiber combined scaffolds: A new architecture for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 1099-1104.	1.7	310
8	Novel Genipin-Cross-Linked Chitosan/Silk Fibroin Sponges for Cartilage Engineering Strategies. <i>Biomacromolecules</i> , 2008, 9, 2764-2774.	2.6	240
9	Chitosan/bioactive glass nanoparticle composite membranes for periodontal regeneration. <i>Acta Biomaterialia</i> , 2012, 8, 4173-4180.	4.1	209
10	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. <i>Tissue Engineering</i> , 2006, 12, 801-809.	4.9	193
11	Alternative tissue engineering scaffolds based on starch: processing methodologies, morphology, degradation and mechanical properties. <i>Materials Science and Engineering C</i> , 2002, 20, 19-26.	3.8	191
12	Contribution of outgrowth endothelial cells from human peripheral blood on in vivo vascularization of bone tissue engineered constructs based on starch polycaprolactone scaffolds. <i>Biomaterials</i> , 2009, 30, 526-534.	5.7	184
13	Photocrosslinkable κ -Carrageenan Hydrogels for Tissue Engineering Applications. <i>Advanced Healthcare Materials</i> , 2013, 2, 895-907.	3.9	178
14	Cytocompatibility and response of osteoblastic-like cells to starch-based polymers: effect of several additives and processing conditions. <i>Biomaterials</i> , 2001, 22, 1911-1917.	5.7	175
15	Development of Injectable Hyaluronic Acid/Cellulose Nanocrystals Bionanocomposite Hydrogels for Tissue Engineering Applications. <i>Bioconjugate Chemistry</i> , 2015, 26, 1571-1581.	1.8	172
16	Endothelial cell colonization and angiogenic potential of combined nano- and micro-fibrous scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2008, 29, 4306-4313.	5.7	167
17	Carrageenan-Based Hydrogels for the Controlled Delivery of PDGF-BB in Bone Tissue Engineering Applications. <i>Biomacromolecules</i> , 2009, 10, 1392-1401.	2.6	165
18	Cell Delivery Systems Using Alginate-Carrageenan Hydrogel Beads and Fibers for Regenerative Medicine Applications. <i>Biomacromolecules</i> , 2011, 12, 3952-3961.	2.6	156

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19	Cartilage Tissue Engineering Using Electrospun PCL Nanofiber Meshes and MSCs. <i>Biomacromolecules</i> , 2010, 11, 3228-3236.	2.6	155
20	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. <i>Biomatter</i> , 2012, 2, 278-289.	2.6	151
21	Development of new chitosan/carrageenan nanoparticles for drug delivery applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1265-1272.	2.1	150
22	Distinct Stem Cells Subpopulations Isolated from Human Adipose Tissue Exhibit Different Chondrogenic and Osteogenic Differentiation Potential. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 64-76.	5.6	143
23	Starch-poly(ϵ -caprolactone) and starch-poly(lactic acid) fibre-mesh scaffolds for bone tissue engineering applications: structure, mechanical properties and degradation behaviour. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008, 2, 243-252.	1.3	140
24	Adipose Tissue-Derived Stem Cells and Their Application in Bone and Cartilage Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2009, 15, 113-125.	2.5	139
25	Tissue Engineering and Regenerative Medicine: New Trends and Directions – A Year in Review. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 211-224.	2.5	133
26	Engineering tendon and ligament tissues: present developments towards successful clinical products. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013, 7, 673-686.	1.3	132
27	Plasma Surface Modification of Chitosan Membranes: Characterization and Preliminary Cell Response Studies. <i>Macromolecular Bioscience</i> , 2008, 8, 568-576.	2.1	131
28	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.	2.5	131
29	Injectable gellan gum hydrogels with autologous cells for the treatment of rabbit articular cartilage defects. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1193-1199.	1.2	121
30	In Vitro Localization of Bone Growth Factors in Constructs of Biodegradable Scaffolds Seeded with Marrow Stromal Cells and Cultured in a Flow Perfusion Bioreactor. <i>Tissue Engineering</i> , 2006, 12, 177-188.	4.9	120
31	Magnetic Nanocomposite Hydrogels for Tissue Engineering: Design Concepts and Remote Actuation Strategies to Control Cell Fate. <i>ACS Nano</i> , 2021, 15, 175-209.	7.3	119
32	An investigation of the potential application of chitosan/aloe-based membranes for regenerative medicine. <i>Acta Biomaterialia</i> , 2013, 9, 6790-6797.	4.1	118
33	Response of micro- and macrovascular endothelial cells to starch-based fiber meshes for bone tissue engineering. <i>Biomaterials</i> , 2007, 28, 240-248.	5.7	116
34	Injectable and tunable hyaluronic acid hydrogels releasing chemotactic and angiogenic growth factors for endodontic regeneration. <i>Acta Biomaterialia</i> , 2018, 77, 155-171.	4.1	109
35	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.	2.5	108
36	3D Mimicry of Native Tissue – Fiber Architecture Guides Tendon-Derived Cells and Adipose Stem Cells into Artificial Tendon Constructs. <i>Small</i> , 2017, 13, 1700689.	5.2	106

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37	Preliminary study on the adhesion and proliferation of human osteoblasts on starch-based scaffolds. <i>Materials Science and Engineering C</i> , 2002, 20, 27-33.	3.8	105
38	The osteogenic differentiation of SSEA-4 sub-population of human adipose derived stem cells using silicate nanoplatelets. <i>Biomaterials</i> , 2014, 35, 9087-9099.	5.7	104
39	Biodegradable polymers and composites in biomedical applications: from catgut to tissue engineering. Part 1 Available systems and their properties. <i>International Materials Reviews</i> , 2004, 49, 261-273.	9.4	100
40	Mesenchymal Stem Cells Empowering Tendon Regenerative Therapies. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3002.	1.8	99
41	Chondrogenic potential of injectable χ -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.	1.3	97
42	Natural-Based Hydrogels for Tissue Engineering Applications. <i>Molecules</i> , 2020, 25, 5858.	1.7	93
43	Enhancing the Biomechanical Performance of Anisotropic Nanofibrous Scaffolds in Tendon Tissue Engineering: Reinforcement with Cellulose Nanocrystals. <i>Advanced Healthcare Materials</i> , 2016, 5, 1364-1375.	3.9	91
44	Understanding the Role of Growth Factors in Modulating Stem Cell Tenogenesis. <i>PLoS ONE</i> , 2013, 8, e83734.	1.1	90
45	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.	1.3	88
46	Harnessing magnetic-mechano actuation in regenerative medicine and tissue engineering. <i>Trends in Biotechnology</i> , 2015, 33, 471-479.	4.9	83
47	Silk hydrogels from non-mulberry and mulberry silkworm cocoons processed with ionic liquids. <i>Acta Biomaterialia</i> , 2013, 9, 8972-8982.	4.1	79
48	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.	4.8	78
49	Macroporous hydroxyapatite scaffolds for bone tissue engineering applications: Physicochemical characterization and assessment of rat bone marrow stromal cell viability. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 175-186.	2.1	73
50	Cell Adhesion and Proliferation onto Chitosan-based Membranes Treated by Plasma Surface Modification. <i>Journal of Biomaterials Applications</i> , 2011, 26, 101-116.	1.2	72
51	Antimicrobial coating of spider silk to prevent bacterial attachment on silk surgical sutures. <i>Acta Biomaterialia</i> , 2019, 99, 236-246.	4.1	72
52	A cartilage tissue engineering approach combining starch-polycaprolactone fibre mesh scaffolds with bovine articular chondrocytes. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 295-302.	1.7	71
53	Magneto-mechanical actuation of magnetic responsive fibrous scaffolds boosts tenogenesis of human adipose stem cells. <i>Nanoscale</i> , 2019, 11, 18255-18271.	2.8	68
54	Tissue-engineered magnetic cell sheet patches for advanced strategies in tendon regeneration. <i>Acta Biomaterialia</i> , 2017, 63, 110-122.	4.1	67

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55	Chitosan microparticles as injectable scaffolds for tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008, 2, 378-380.	1.3	65
56	Multifunctional magnetic-responsive hydrogels to engineer tendon-to-bone interface. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2375-2385.	1.7	65
57	Hybrid 3D structure of poly(D,L-lactic acid) loaded with chitosan/chondroitin sulfate nanoparticles to be used as carriers for biomacromolecules in tissue engineering. <i>Journal of Supercritical Fluids</i> , 2010, 54, 320-327.	1.6	64
58	Effect of Anatomical Origin and Cell Passage Number on the Stemness and Osteogenic Differentiation Potential of Canine Adipose-Derived Stem Cells. <i>Stem Cell Reviews and Reports</i> , 2012, 8, 1211-1222.	5.6	64
59	Chondrogenic phenotype of different cells encapsulated in κ -carrageenan hydrogels for cartilage regeneration strategies. <i>Biotechnology and Applied Biochemistry</i> , 2012, 59, 132-141.	1.4	64
60	Amphiphilic beads as depots for sustained drug release integrated into fibrillar scaffolds. <i>Journal of Controlled Release</i> , 2014, 187, 66-73.	4.8	63
61	Rapid vascularization of starch-poly(caprolactone) in vivo by outgrowth endothelial cells in co-culture with primary osteoblasts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, e136-e143.	1.3	62
62	Bioactive starch-based scaffolds and human adipose stem cells are a good combination for bone tissue engineering. <i>Acta Biomaterialia</i> , 2012, 8, 3765-3776.	4.1	61
63	Self-Assembled Hydrogel Fiber Bundles from Oppositely Charged Polyelectrolytes Mimic Micro-Nanoscale Hierarchy of Collagen. <i>Advanced Functional Materials</i> , 2017, 27, 1606273.	7.8	61
64	Blood derivatives awaken in regenerative medicine strategies to modulate wound healing. <i>Advanced Drug Delivery Reviews</i> , 2018, 129, 376-393.	6.6	59
65	The Role of Lipase and α -Amylase in the Degradation of Starch/Poly(ϵ -Caprolactone) Fiber Meshes and the Osteogenic Differentiation of Cultured Marrow Stromal Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 295-305.	1.6	58
66	A new route to produce starch-based fiber mesh scaffolds by wet spinning and subsequent surface modification as a way to improve cell attachment and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 369-377.	2.1	58
67	Osteogenic differentiation of two distinct subpopulations of human adipose-derived stem cells: an in vitro and in vivo study. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012, 6, 1-11.	1.3	58
68	From nano- to macro-scale: nanotechnology approaches for spatially controlled delivery of bioactive factors for bone and cartilage engineering. <i>Nanomedicine</i> , 2012, 7, 1045-1066.	1.7	57
69	Tissue Engineering: Key Elements and Some Trends. <i>Macromolecular Bioscience</i> , 2004, 4, 737-742.	2.1	56
70	Fabrication of Endothelial Cell-Laden Carrageenan Microfibers for Microvascularized Bone Tissue Engineering Applications. <i>Biomacromolecules</i> , 2014, 15, 2849-2860.	2.6	56
71	Evaluation of the <i>in vitro</i> and <i>in vivo</i> biocompatibility of carrageenan-based hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 4087-4097.	2.1	56
72	A Textile Platform Using Continuous Aligned and Textured Composite Microfibers to Engineer Tendon-Bone Interface Gradient Scaffolds. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900200.	3.9	56

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73	Biodegradable polymers and composites in biomedical applications: from catgut to tissue engineering. Part 2 Systems for temporary replacement and advanced tissue regeneration. <i>International Materials Reviews</i> , 2004, 49, 274-285.	9.4	55
74	Strontium-Doped Bioactive Glass Nanoparticles in Osteogenic Commitment. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23311-23320.	4.0	55
75	Cryopreservation of Cell/Scaffold Tissue-Engineered Constructs. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 852-858.	1.1	54
76	Use of Perfusion Bioreactors and Large Animal Models for Long Bone Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 126-146.	2.5	54
77	Injectable and Magnetic Responsive Hydrogels with Bioinspired Ordered Structures. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1392-1404.	2.6	54
78	Proliferation and differentiation of goat bone marrow stromal cells in 3D scaffolds with tunable hydrophilicity. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 277-286.	1.6	53
79	Current strategies for osteochondral regeneration: from stem cells to pre-clinical approaches. <i>Current Opinion in Biotechnology</i> , 2011, 22, 726-733.	3.3	53
80	Bilayered constructs aimed at osteochondral strategies: The influence of medium supplements in the osteogenic and chondrogenic differentiation of amniotic fluid-derived stem cells. <i>Acta Biomaterialia</i> , 2012, 8, 2795-2806.	4.1	53
81	Human platelet lysate-based nanocomposite bioink for bioprinting hierarchical fibrillar structures. <i>Biofabrication</i> , 2020, 12, 015012.	3.7	53
82	Bone turnover markers for early detection of fracture healing disturbances: A review of the scientific literature. <i>Anais Da Academia Brasileira De Ciencias</i> , 2015, 87, 1049-1061.	0.3	52
83	Asymmetric PDLA membranes containing Bioglass® for guided tissue regeneration: Characterization and in vitro biological behavior. <i>Dental Materials</i> , 2013, 29, 427-436.	1.6	51
84	A Tissue Engineering Approach for Periodontal Regeneration Based on a Biodegradable Double-Layer Scaffold and Adipose-Derived Stem Cells. <i>Tissue Engineering - Part A</i> , 2014, 20, 2483-2492.	1.6	51
85	Biomaterials for Sequestration of Growth Factors and Modulation of Cell Behavior. <i>Advanced Functional Materials</i> , 2020, 30, 1909011.	7.8	51
86	Exploring the Potential of Starch/Polycaprolactone Aligned Magnetic Responsive Scaffolds for Tendon Regeneration. <i>Advanced Healthcare Materials</i> , 2016, 5, 213-222.	3.9	50
87	The Effect of Storage Time on Adipose-Derived Stem Cell Recovery from Human Lipoaspirates. <i>Cells Tissues Organs</i> , 2011, 194, 494-500.	1.3	48
88	Unleashing the potential of supercritical fluids for polymer processing in tissue engineering and regenerative medicine. <i>Journal of Supercritical Fluids</i> , 2013, 79, 177-185.	1.6	48
89	Layer-by-layer assembled cell instructive nanocoatings containing platelet lysate. <i>Biomaterials</i> , 2015, 48, 56-65.	5.7	48
90	Xenofree Enzymatic Products for the Isolation of Human Adipose-Derived Stromal/Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 473-478.	1.1	47

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91	Biofabrication of customized bone grafts by combination of additive manufacturing and bioreactor knowhow. <i>Biofabrication</i> , 2014, 6, 035006.	3.7	47
92	Enthesis Tissue Engineering: Biological Requirements Meet at the Interface. <i>Tissue Engineering - Part B: Reviews</i> , 2019, 25, 330-356.	2.5	47
93	Injectable hyaluronic acid and platelet lysate-derived granular hydrogels for biomedical applications. <i>Acta Biomaterialia</i> , 2021, 119, 101-113.	4.1	47
94	Undifferentiated human adipose-derived stromal/stem cells loaded onto wet-spun starch-polycaprolactone scaffolds enhance bone regeneration: Nude mice calvarial defect <i>in vivo</i> study. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3102-3111.	2.1	46
95	Microengineered Multicomponent Hydrogel Fibers: Combining Polyelectrolyte Complexation and Microfluidics. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1322-1331.	2.6	45
96	Microfabricated photocrosslinkable polyelectrolyte-complex of chitosan and methacrylated gellan gum. <i>Journal of Materials Chemistry</i> , 2012, 22, 17262.	6.7	44
97	Human Adipose Tissue-Derived SSEA-4 Subpopulation Multi-Differentiation Potential Towards the Endothelial and Osteogenic Lineages. <i>Tissue Engineering - Part A</i> , 2013, 19, 235-246.	1.6	43
98	Current approaches and future perspectives on strategies for the development of personalized tissue engineering therapies. <i>Expert Review of Precision Medicine and Drug Development</i> , 2016, 1, 93-108.	0.4	43
99	Effect of flow perfusion conditions in the chondrogenic differentiation of bone marrow stromal cells cultured onto starch based biodegradable scaffolds. <i>Acta Biomaterialia</i> , 2011, 7, 1644-1652.	4.1	42
100	The effect of differentiation stage of amniotic fluid stem cells on bone regeneration. <i>Biomaterials</i> , 2012, 33, 6069-6078.	5.7	42
101	Natural assembly of platelet lysate-loaded nanocarriers into enriched 3D hydrogels for cartilage regeneration. <i>Acta Biomaterialia</i> , 2015, 19, 56-65.	4.1	42
102	Hyaluronic acid hydrogels incorporating platelet lysate enhance human pulp cell proliferation and differentiation. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 88.	1.7	42
103	Tropoelastin-Coated Tendon Biomimetic Scaffolds Promote Stem Cell Tenogenic Commitment and Deposition of Elastin-Rich Matrix. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19830-19840.	4.0	42
104	Novel method for the isolation of adipose stem cells (ASCs). <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 158-159.	1.3	41
105	Differentiation of mesenchymal stem cells in chitosan scaffolds with double micro and macroporosity. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 1182-1193.	2.1	41
106	In situ functionalization of wet-spun fibre meshes for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 104-111.	1.3	40
107	Biphasic Hydrogels Integrating Mineralized and Anisotropic Features for Interfacial Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47771-47784.	4.0	40
108	Three-dimensional self-assembling nanofiber matrix rejuvenates aged/degenerative human tendon stem/progenitor cells. <i>Biomaterials</i> , 2020, 236, 119802.	5.7	40

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109	Amniotic Fluid-Derived Stem Cells as a Cell Source for Bone Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2012, 18, 2518-2527.	1.6	39
110	Functionalized Microparticles Producing Scaffolds in Combination with Cells. <i>Advanced Functional Materials</i> , 2014, 24, 1391-1400.	7.8	39
111	Tissue-engineered constructs based on SPCL scaffolds cultured with goat marrow cells: functionality in femoral defects. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 41-49.	1.3	38
112	Molecularly Imprinted Intelligent Scaffolds for Tissue Engineering Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 27-43.	2.5	37
113	A Physiology-Inspired Multifactorial Toolbox in Soft-to-Hard Musculoskeletal Interface Tissue Engineering. <i>Trends in Biotechnology</i> , 2020, 38, 83-98.	4.9	36
114	Surface-modified 3D starch-based scaffold for improved endothelialization for bone tissue engineering. <i>Journal of Materials Chemistry</i> , 2009, 19, 4091.	6.7	35
115	Human adipose tissue-derived tenomodulin positive subpopulation of stem cells: A promising source of tendon progenitor cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 762-774.	1.3	35
116	Expression, purification and osteogenic bioactivity of recombinant human BMP-4, -9, -10, -11 and -14. <i>Protein Expression and Purification</i> , 2009, 63, 89-94.	0.6	34
117	Platelet Lysate-Loaded Photocrosslinkable Hyaluronic Acid Hydrogels for Periodontal Endogenous Regenerative Technology. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1359-1369.	2.6	34
118	Triggering the activation of Activin A type II receptor in human adipose stem cells towards tenogenic commitment using mechanomagnetic stimulation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1149-1159.	1.7	34
119	Human-based fibrillar nanocomposite hydrogels as bioinstructive matrices to tune stem cell behavior. <i>Nanoscale</i> , 2018, 10, 17388-17401.	2.8	34
120	Development of Inhalable Superparamagnetic Iron Oxide Nanoparticles (SPIONs) in Microparticulate System for Antituberculosis Drug Delivery. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800124.	3.9	34
121	Cryopreservation of cell laden natural origin hydrogels for cartilage regeneration strategies. <i>Soft Matter</i> , 2013, 9, 875-885.	1.2	33
122	Magnetically-Responsive Hydrogels for Modulation of Chondrogenic Commitment of Human Adipose-Derived Stem Cells. <i>Polymers</i> , 2016, 8, 28.	2.0	33
123	Preclinical and Translational Studies in Small Ruminants (Sheep and Goat) as Models for Osteoporosis Research. <i>Current Osteoporosis Reports</i> , 2018, 16, 182-197.	1.5	32
124	Use of animal protein-free products for passaging adherent human adipose-derived stromal/stem cells. <i>Cytotherapy</i> , 2011, 13, 594-597.	0.3	31
125	A novel bidirectional continuous perfusion bioreactor for the culture of large-sized bone tissue-engineered constructs. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101, 1377-1386.	1.6	31
126	Biological evaluation of intervertebral disc cells in different formulations of gellan gum-based hydrogels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 265-275.	1.3	31

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127	Contributions and future perspectives on the use of magnetic nanoparticles as diagnostic and therapeutic tools in the field of regenerative medicine. <i>Expert Review of Molecular Diagnostics</i> , 2013, 13, 553-566.	1.5	30
128	Evaluation of a starch-based double layer scaffold for bone regeneration in a rat model. <i>Journal of Orthopaedic Research</i> , 2014, 32, 904-909.	1.2	30
129	Design and characterization of a biodegradable double-layer scaffold aimed at periodontal tissue-engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 392-403.	1.3	30
130	Natural Polymers in tissue engineering applications. , 2008, , 145-192.		29
131	Development of micropatterned surfaces of poly(butylene succinate) by micromolding for guided tissue engineering. <i>Acta Biomaterialia</i> , 2012, 8, 1490-1497.	4.1	29
132	Epitope-imprinted polymers: Design principles of synthetic binding partners for natural biomacromolecules. <i>Science Advances</i> , 2021, 7, eabi9884.	4.7	29
133	Platelet lysate membranes as new autologous templates for tissue engineering applications. <i>Inflammation and Regeneration</i> , 2014, 34, 033-044.	1.5	28
134	Platelet lysate-based pro-angiogenic nanocoatings. <i>Acta Biomaterialia</i> , 2016, 32, 129-137.	4.1	27
135	Cell-laden composite suture threads for repairing damaged tendons. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1039-1048.	1.3	25
136	Magnetic biomaterials and nano-instructive tools as mediators of tendon mechanotransduction. <i>Nanoscale Advances</i> , 2020, 2, 140-148.	2.2	25
137	Intrinsically Bioactive Cryogels Based on Platelet Lysate Nanocomposites for Hemostasis Applications. <i>Biomacromolecules</i> , 2020, 21, 3678-3692.	2.6	25
138	Engineering next-generation bioinks with nanoparticles: moving from reinforcement fillers to multifunctional nanoelements. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5025-5038.	2.9	25
139	Development of an Injectable Calcium Phosphate/Hyaluronic Acid Microparticles System for Platelet Lysate Sustained Delivery Aiming Bone Regeneration. <i>Macromolecular Bioscience</i> , 2016, 16, 1662-1677.	2.1	24
140	Magnetic responsive cell-based strategies for diagnostics and therapeutics. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 054001.	1.7	24
141	Magnetic responsive materials modulate the inflammatory profile of IL-1 β conditioned tendon cells. <i>Acta Biomaterialia</i> , 2020, 117, 235-245.	4.1	24
142	Decellularized kidney extracellular matrix bioinks recapitulate renal 3D microenvironment in vitro. <i>Biofabrication</i> , 2021, 13, 045006.	3.7	24
143	Development of a bioactive glass fiber reinforced starch-polycaprolactone composite. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 87B, 197-203.	1.6	23
144	β -PVDF Membranes Induce Cellular Proliferation and Differentiation in Static and Dynamic Conditions. <i>Materials Science Forum</i> , 0, 587-588, 72-76.	0.3	23

#	ARTICLE	IF	CITATIONS
145	Dynamic Culture of Osteogenic Cells in Biomimetically Coated Poly(Caprolactone) Nanofibre Mesh Constructs. <i>Tissue Engineering - Part A</i> , 2010, 16, 557-563.	1.6	23
146	A novel method for the isolation of subpopulations of rat adipose stem cells with different proliferation and osteogenic differentiation potentials. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 655-664.	1.3	23
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