Gavin Jell

List of Publications by Year
in descending order

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Version: 2024-02-01

46 papers	3,001 citations	257450 24 h-index	276875 41 g-index
46 all docs	46 docs citations	46 times ranked	4657 citing authors

#	Article	IF	Citations
1	The effects of strontium-substituted bioactive glasses on osteoblasts and osteoclasts in vitro. Biomaterials, 2010, 31, 3949-3956.	11.4	523
2	Biofunctionalization of Biomaterials for Accelerated in Situ Endothelialization: A Review. Biomacromolecules, 2008, 9, 2969-2979.	5.4	319
3	Comparative materials differences revealed in engineered bone as a function of cell-specific differentiation. Nature Materials, 2009, 8, 763-770.	27.5	223
4	Hypoxia-mimicking bioactive glass/collagen glycosaminoglycan composite scaffolds to enhance angiogenesis and bone repair. Biomaterials, 2015, 52, 358-366.	11.4	200
5	Gene activation by bioactive glasses. Journal of Materials Science: Materials in Medicine, 2006, 17, 997-1002.	3.6	169
6	Synthesis and characterization of hypoxia-mimicking bioactive glasses for skeletal regeneration. Journal of Materials Chemistry, 2010, 20, 8854.	6.7	112
7	Titanium dioxide (TiO2) nanoparticles filled poly(d,l lactid acid) (PDLLA) matrix composites for bone tissue engineering. Journal of Materials Science: Materials in Medicine, 2007, 18, 1287-1298.	3.6	108
8	Nonâ€invasive analysis of cell cycle dynamics in single living cells with Raman microâ€spectroscopy. Journal of Cellular Biochemistry, 2008, 104, 1427-1438.	2.6	107
9	Multivariate analysis of Raman spectra for in vitro non-invasive studies of living cells. Journal of Molecular Structure, 2005, 744-747, 179-185.	3.6	95
10	Carbon nanotube-enhanced polyurethane scaffolds fabricated by thermally induced phase separation. Journal of Materials Chemistry, 2008, 18, 1865.	6.7	95
11	In situ non-invasive spectral discrimination between bone cell phenotypes used in tissue engineering. Journal of Cellular Biochemistry, 2004, 92, 1180-1192.	2.6	92
12	Rapid production of human liver scaffolds for functional tissue engineering by high shear stress oscillation-decellularization. Scientific Reports, 2017, 7, 5534.	3.3	79
13	In vitro toxicology evaluation of pharmaceuticals using Raman micro-spectroscopy. Journal of Cellular Biochemistry, 2006, 99, 178-186.	2.6	78
14	Transplantation of human fetal blood stem cells in the osteogenesis imperfecta mouse leads to improvement in multiscale tissue properties. Blood, 2011, 117, 1053-1060.	1.4	78
15	Design and development of nanocomposite scaffolds for auricular reconstruction. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 235-246.	3.3	64
16	Reactive polyurethane carbon nanotube foams and their interactions with osteoblasts. Journal of Biomedical Materials Research - Part A, 2009, 88A, 65-73.	4.0	57
17	Hypoxia Inducible Factor-Stabilizing Bioactive Glasses for Directing Mesenchymal Stem Cell Behavior. Tissue Engineering - Part A, 2015, 21, 382-389.	3.1	56
18	Differential Regulation of Human Bone Marrow Mesenchymal Stromal Cell Chondrogenesis by Hypoxia Inducible Factor-1Î± Hydroxylase Inhibitors. Stem Cells, 2018, 36, 1380-1392.	3.2	51

#	Article	IF	Citations
19	Determining the outcomes of post-mastectomy radiation therapy delivered to the definitive implant in patients undergoing one- and two-stage implant-based breast reconstruction: AÂsystematic review and meta-analysis. Journal of Plastic, Reconstructive and Aesthetic Surgery, 2017, 70, 1329-1335.	1.0	49
20	Hypoxia impacts human MSC response to substrate stiffness during chondrogenic differentiation. Acta Biomaterialia, 2019, 89, 73-83.	8.3	46
21	The use of fat grafting and plateletâ€rich plasma for wound healing: A review of the current evidence. International Wound Journal, 2019, 16, 275-285.	2.9	38
22	Personalized In Vitro Cancer Modeling â€" Fantasy or Reality?. Translational Oncology, 2014, 7, 657-664.	3.7	34
23	Fat grafting and plateletâ€rich plasma for the treatment of diabetic foot ulcers: A feasibilityâ€randomised controlled trial. International Wound Journal, 2020, 17, 1578-1594.	2.9	31
24	Electrospinning 3D bioactive glasses for wound healing. Biomedical Materials (Bristol), 2020, 15, 015014.	3.3	30
25	Investigation of Schwann cell behaviour on RGD-functionalised bioabsorbable nanocomposite for peripheral nerve regeneration. New Biotechnology, 2014, 31, 203-213.	4.4	29
26	Hypoxia Inducible Factor-1Î± in Osteochondral Tissue Engineering. Tissue Engineering - Part B: Reviews, 2020, 26, 105-115.	4.8	27
27	Template synthesis of ordered macroporous hydroxyapatite bioceramics. Chemical Communications, 2011, 47, 9048.	4.1	24
28	Lymphangiogenesis in the boneâ€"implant interface of orthopedic implants: Importance and consequence. Journal of Biomedical Materials Research - Part A, 2006, 77A, 119-127.	4.0	22
29	Stiffness memory nanohybrid scaffolds generated by indirect 3D printing for biologically responsive soft implants. Acta Biomaterialia, 2018, 80, 188-202.	8.3	22
30	A Biodesigned Nanocomposite Biomaterial for Auricular Cartilage Reconstruction. Advanced Healthcare Materials, 2016, 5, 1203-1212.	7.6	18
31	Osteoblast-like cell responses to silicate ions released from 45S5-type bioactive glass and siloxane-doped vaterite. Journal of Materials Science, 2017, 52, 8942-8956.	3.7	18
32	Fat grafting and platelet-rich plasma in wound healing: a review of histology from animal studies. Adipocyte, 2021, 10, 80-90.	2.8	18
33	Nerve Regeneration and Bioengineering. , 2014, , 799-810.		11
34	Bioengineering the ameloblastoma tumour to study its effect on bone nodule formation. Scientific Reports, 2021, 11, 24088.	3.3	11
35	Histological analysis of fat grafting with plateletâ€rich plasma for diabetic foot ulcersâ€"A randomised controlled trial. International Wound Journal, 2022, 19, 389-398.	2.9	10
36	A guide to basic cell culture and applications in biomaterials and tissue engineering. , 2005, , 215-226.		8

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37	Mechanical and surface chemical analysis of retrieved breast implants from a single centre. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 24-31.	3.1	8
38	Clinical relevance assessment of animal preclinical research (RAA) tool: development and explanation. PeerJ, 2021, 9, e10673.	2.0	8
39	Biomaterial-Related Approaches: Surface Structuring. , 2009, , 469-484.		8
40	Nanotechnology and medical devices: Risk, regulation and â€˜metaâ€™ registration. World Journal of Engineering, 2013, 10, 191-198.	1.6	8
41	Raman Spectroscopy: A Tool for Tissue Engineering. Biological and Medical Physics Series, 2010, , 419-437.	0.4	5
42	Protocol for a feasibility randomised controlled trial of targeted oxygen therapy in mechanically ventilated critically ill patients. BMJ Open, 2019, 9, e021674.	1.9	4
43	Impact of post mastectomy radiotherapy on the silicone breast implant. Materials Science and Engineering C, 2019, 98, 288-292.	7.3	4
44	An Evaluation of the Effect of Activation Methods on the Release of Growth Factors from Platelet-Rich Plasma. Plastic and Reconstructive Surgery, 2022, 149, 404-411.	1.4	4
45	Immunochemical techniques in tissue engineering and biomaterial science. , 2005, , 227-240.		0
46	Perioperative antioxidants for adults undergoing elective non-cardiac surgery. The Cochrane Library, 2018, , .	2.8	0