Eileen Gentleman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66
papers3,731
citations29
h-index61
g-index71
ext. papers4,320
ext. citations9.2
avg, IF5.44
L-index

#	Paper	IF	Citations
66	The effects of strontium-substituted bioactive glasses on osteoblasts and osteoclasts in vitro. <i>Biomaterials</i> , 2010 , 31, 3949-56	15.6	458
65	The role of intracellular calcium phosphate in osteoblast-mediated bone apatite formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14170-5	11.5	335
64	Substrate stiffness affects early differentiation events in embryonic stem cells. <i>European Cells and Materials</i> , 2009 , 18, 1-13; discussion 13-4	4.3	322
63	Mechanical characterization of collagen fibers and scaffolds for tissue engineering. <i>Biomaterials</i> , 2003 , 24, 3805-13	15.6	300
62	Comparative materials differences revealed in engineered bone as a function of cell-specific differentiation. <i>Nature Materials</i> , 2009 , 8, 763-70	27	193
61	Nano-analytical electron microscopy reveals fundamental insights into human cardiovascular tissue calcification. <i>Nature Materials</i> , 2013 , 12, 576-83	27	190
60	The role of surface free energy in osteoblastBiomaterial interactions. <i>International Materials Reviews</i> , 2014 , 59, 417-429	16.1	123
59	Anisotropic fibrous scaffolds for articular cartilage regeneration. <i>Tissue Engineering - Part A</i> , 2012 , 18, 2073-83	3.9	117
58	Bioactive Glass Scaffolds for Bone Regeneration. <i>Elements</i> , 2007 , 3, 393-399	3.8	103
57	Scaffolds for stem cells. <i>Materials Today</i> , 2006 , 9, 26-33	21.8	103
56	Evolving insights in cell-matrix interactions: elucidating how non-soluble properties of the extracellular niche direct stem cell fate. <i>Acta Biomaterialia</i> , 2015 , 11, 3-16	10.8	94
55	Materials characterisation and cytotoxic assessment of strontium-substituted bioactive glasses for bone regeneration. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8934		90
54	Extracellular matrix-mediated osteogenic differentiation of murine embryonic stem cells. <i>Biomaterials</i> , 2010 , 31, 3244-52	15.6	78
53	Surface properties and ion release from fluoride-containing bioactive glasses promote osteoblast differentiation and mineralization in vitro. <i>Acta Biomaterialia</i> , 2013 , 9, 5771-9	10.8	75
52	Exploiting Advanced Hydrogel Technologies to Address Key Challenges in Regenerative Medicine. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1700939	10.1	66
51	Bi-directional cell-pericellular matrix interactions direct stem cell fate. <i>Nature Communications</i> , 2018 , 9, 4049	17.4	65
50	Development of ligament-like structural organization and properties in cell-seeded collagen scaffolds in vitro. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 726-36	4.7	64

(2021-2011)

49	Strontium- and zinc-alginate hydrogels for bone tissue engineering. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2713-22	3.9	60
48	Benefits and drawbacks of zinc in glass ionomer bone cements. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 045007	3.5	60
47	Collagen composite biomaterials resist contraction while allowing development of adipocytic soft tissue in vitro. <i>Tissue Engineering</i> , 2006 , 12, 1639-49		59
46	Monomeric, porous type II collagen scaffolds promote chondrogenic differentiation of human bone marrow mesenchymal stem cells in vitro. <i>Scientific Reports</i> , 2017 , 7, 43519	4.9	54
45	Sparse feature selection methods identify unexpected global cellular response to strontium-containing materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4280-5	11.5	52
44	The role of material structure and mechanical properties in cell-matrix interactions. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2345-2356	7-3	52
43	Characterization of porcine aortic valvular interstitial cell &alcifiedSnodules. PLoS ONE, 2012, 7, e48154	3.7	39
42	Differential Regulation of Human Bone Marrow Mesenchymal Stromal Cell Chondrogenesis by Hypoxia Inducible Factor-1Hydroxylase Inhibitors. <i>Stem Cells</i> , 2018 , 36, 1380-1392	5.8	38
41	Short collagen fibers provide control of contraction and permeability in fibroblast-seeded collagen gels. <i>Tissue Engineering</i> , 2004 , 10, 421-7		38
40	Perivascular Stem Cells at the Tip of Mouse Incisors Regulate Tissue Regeneration. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 514-23	6.3	32
39	Harnessing the secreted extracellular matrix to engineer tissues. <i>Nature Biomedical Engineering</i> , 2020 , 4, 357-363	19	30
38	Multiscale analyses reveal native-like lamellar bone repair and near perfect bone-contact with porous strontium-loaded bioactive glass. <i>Biomaterials</i> , 2019 , 209, 152-162	15.6	29
37	Composition of Mineral Produced by Dental Mesenchymal Stem Cells. <i>Journal of Dental Research</i> , 2015 , 94, 1568-74	8.1	29
36	Hypoxia impacts human MSC response to substrate stiffness during chondrogenic differentiation. <i>Acta Biomaterialia</i> , 2019 , 89, 73-83	10.8	27
35	Historic and current strategies in bone tissue engineering: do we have a hope in Hench?. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 1029-35	4.5	26
34	Neighboring cells override 3D hydrogel matrix cues to drive human MSC quiescence. <i>Biomaterials</i> , 2018 , 176, 13-23	15.6	25
33	Inadequate fine-tuning of protein synthesis and failure of amino acid homeostasis following inhibition of the ATPase VCP/p97. <i>Cell Death and Disease</i> , 2015 , 6, e2031	9.8	23
32	ILC1 drive intestinal epithelial and matrix remodelling. <i>Nature Materials</i> , 2021 , 20, 250-259	27	23

31	Optimisation of lithium-substituted bioactive glasses to tailor cell response for hard tissue repair. Journal of Materials Science, 2017 , 52, 8832-8844	4.3	21
30	Collective Cell Behavior in Mechanosensing of Substrate Thickness. <i>Biophysical Journal</i> , 2018 , 114, 2743	3- 2 .755	20
29	Translation Approach for Dentine Regeneration Using GSK-3 Antagonists. <i>Journal of Dental Research</i> , 2020 , 99, 544-551	8.1	16
28	Therapeutic Ion-Releasing Bioactive Glass Ionomer Cements with Improved Mechanical Strength and Radiopacity. <i>Frontiers in Materials</i> , 2015 , 2,	4	16
27	Gene-expression analysis reveals that embryonic stem cells cultured under osteogenic conditions produce mineral non-specifically compared to marrow stromal cells or osteoblasts. <i>European Cells and Materials</i> , 2012 , 24, 211-23	4.3	16
26	Measuring the elastic modulus of soft culture surfaces and three-dimensional hydrogels using atomic force microscopy. <i>Nature Protocols</i> , 2021 , 16, 2418-2449	18.8	15
25	Aortic valve calcification: a bone of contention. European Heart Journal, 2017, 38, 1189-1193	9.5	13
24	Wharton's jelly mesenchymal stromal/stem cells derived under chemically defined animal product-free low oxygen conditions are rich in MSCA-1(+) subpopulation. <i>Regenerative Medicine</i> , 2014 , 9, 723-32	2.5	12
23	A comparison of lithium-substituted phosphate and borate bioactive glasses for mineralised tissue repair. <i>Dental Materials</i> , 2019 , 35, 919-927	5.7	11
22	Three-dimensional niche stiffness synergizes with Wnt7a to modulate the extent of satellite cell symmetric self-renewal divisions. <i>Molecular Biology of the Cell</i> , 2020 , 31, 1703-1713	3.5	10
21	Adhesive Hydrogels for Maxillofacial Tissue Regeneration Using Minimally Invasive Procedures. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901134	10.1	10
20	Hypoxia Inducible Factor-1∄n Osteochondral Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2020 , 26, 105-115	7.9	10
19	Correlative spectroscopy of silicates in mineralised nodules formed from osteoblasts. <i>Nanoscale</i> , 2013 , 5, 7544-51	7.7	9
18	Rethinking Cancer Immunotherapy by Embracing and Engineering Complexity. <i>Trends in Biotechnology</i> , 2020 , 38, 1054-1065	15.1	7
17	A Hydrogel-Integrated Culture Device to Interrogate T Cell Activation with Physicochemical Cues. <i>ACS Applied Materials & Devices</i> , 2020 , 12, 47355-47367	9.5	7
16	Matrix-associated chondrocyte transplantation for reconstruction of articulating surfaces in the temporomandibular joint: a pilot study covering medium- and long-term outcomes of 6 patients. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2018 , 126, 117-128	2	5
15	An engineered, quantifiable in vitro model for analysing the effect of proteostasis-targeting drugs on tissue physical properties. <i>Biomaterials</i> , 2018 , 183, 102-113	15.6	5
14	Pluripotency state regulates cytoneme selectivity and self-organization of embryonic stem cells. Journal of Cell Biology, 2021, 220,	7.3	5

LIST OF PUBLICATIONS

13	Intrinsic Mechanical Cues and Their Impact on Stem Cells and Embryogenesis. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 761871	5.7	4
12	Selectively Cross-Linked Tetra-PEG Hydrogels Provide Control over Mechanical Strength with Minimal Impact on Diffusivity. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4293-4304	5.5	4
11	An integrated pipeline for high-throughput screening and profiling of spheroids using simple live image analysis of frame to frame variations. <i>Methods</i> , 2021 , 190, 33-43	4.6	3
10	Operating curves to characterize the contraction of fibroblast-seeded collagen gel/collagen fiber composite biomaterials: effect of fiber mass. <i>Plastic and Reconstructive Surgery</i> , 2007 , 119, 508-16	2.7	2
9	Complementary techniques to analyse pericellular matrix formation by human MSC within hyaluronic acid hydrogels. <i>Materials Advances</i> , 2020 , 1, 2888-2896	3.3	2
8	GSK3 Inhibitor-Induced Dentinogenesis Using a Hydrogel. <i>Journal of Dental Research</i> , 2021 , 22034521	108065	2 2
7	A modified glass ionomer cement to mediate dentine repair. <i>Dental Materials</i> , 2021 , 37, 1307-1315	5.7	2
6	Design considerations for engineering 3D models to study vascular pathologies in vitro. <i>Acta Biomaterialia</i> , 2021 , 132, 114-128	10.8	2
5	Collagen Composite Biomaterials Resist Contraction While Allowing Development of Adipocytic Soft Tissue In Vitro. <i>Tissue Engineering</i> , 2006 , 060706073730043		1
4	Collective cell behaviour in mechanosensing of substrate thickness		1
3	ILC1-derived TGF® drives intestinal remodelling		1
2	OP13 Mucosal organoids capture Innate Lymphoid Cells (ILC) tissue-specific development and reveal that Inflammatory Bowel Disease-associated ILC modulate intestinal remodelling. <i>Journal of Crohnis and Colitis</i> , 2021 , 15, S013-S014	1.5	

Inflation comes before the fall: How epithelial stretch drives crypt fission. *Cell Stem Cell*, **2021**, 28, 1505-**18**06