

Eileen Gentleman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7394881/publications.pdf>

Version: 2024-02-01

66
papers

4,860
citations

117453

34
h-index

114278

63
g-index

71
all docs

71
docs citations

71
times ranked

7804
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of strontium-substituted bioactive glasses on osteoblasts and osteoclasts in vitro. <i>Biomaterials</i> , 2010, 31, 3949-3956.	5.7	523
2	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, 14170-14175.	3.3	429
3	Substrate stiffness affects early differentiation events in embryonic stem cells. , 2009, 18, 1-14.		387
4	Mechanical characterization of collagen fibers and scaffolds for tissue engineering. <i>Biomaterials</i> , 2003, 24, 3805-3813.	5.7	344
5	Nano-analytical electron microscopy reveals fundamental insights into human cardiovascular tissue calcification. <i>Nature Materials</i> , 2013, 12, 576-583.	13.3	228
6	Comparative materials differences revealed in engineered bone as a function of cell-specific differentiation. <i>Nature Materials</i> , 2009, 8, 763-770.	13.3	223
7	The role of surface free energy in osteoblast-biomaterial interactions. <i>International Materials Reviews</i> , 2014, 59, 417-429.	9.4	159
8	Anisotropic Fibrous Scaffolds for Articular Cartilage Regeneration. <i>Tissue Engineering - Part A</i> , 2012, 18, 2073-2083.	1.6	135
9	Scaffolds for stem cells. <i>Materials Today</i> , 2006, 9, 26-33.	8.3	121
10	Bioactive Glass Scaffolds for Bone Regeneration. <i>Elements</i> , 2007, 3, 393-399.	0.5	117
11	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.	4.1	115
12	Exploiting Advanced Hydrogel Technologies to Address Key Challenges in Regenerative Medicine. <i>Advanced Healthcare Materials</i> , 2018, 7, e1700939.	3.9	105
13	Materials characterisation and cytotoxic assessment of strontium-substituted bioactive glasses for bone regeneration. <i>Journal of Materials Chemistry</i> , 2010, 20, 8934.	6.7	102
14	Bi-directional cell-pericellular matrix interactions direct stem cell fate. <i>Nature Communications</i> , 2018, 9, 4049.	5.8	90
15	Surface properties and ion release from fluoride-containing bioactive glasses promote osteoblast differentiation and mineralization in vitro. <i>Acta Biomaterialia</i> , 2013, 9, 5771-5779.	4.1	87
16	Extracellular matrix-mediated osteogenic differentiation of murine embryonic stem cells. <i>Biomaterials</i> , 2010, 31, 3244-3252.	5.7	86
17	Benefits and drawbacks of zinc in glass ionomer bone cements. <i>Biomedical Materials (Bristol)</i> , 2011, 6, 045007.	1.7	78
18	Strontium- and Zinc-Alginate Hydrogels for Bone Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2011, 17, 2713-2722.	1.6	76

#	ARTICLE	IF	CITATIONS
19	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.	1.6	76
20	Development of Ligament-Like Structural Organization and Properties in Cell-Seeded Collagen Scaffolds in vitro. <i>Annals of Biomedical Engineering</i> , 2006, 34, 726-736.	1.3	72
21	The role of material structure and mechanical properties in cell-matrix interactions. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2345.	2.9	66
22	ILC1 drive intestinal epithelial and matrix remodelling. <i>Nature Materials</i> , 2021, 20, 250-259.	13.3	64
23	Measuring the elastic modulus of soft culture surfaces and three-dimensional hydrogels using atomic force microscopy. <i>Nature Protocols</i> , 2021, 16, 2418-2449.	5.5	64
24	Collagen Composite Biomaterials Resist Contraction While Allowing Development of Adipocytic Soft Tissue In Vitro. <i>Tissue Engineering</i> , 2006, 12, 1639-1649.	4.9	62
25	Harnessing the secreted extracellular matrix to engineer tissues. <i>Nature Biomedical Engineering</i> , 2020, 4, 357-363.	11.6	62
26	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, 4280-4285.	3.3	61
27	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.	5.7	54
28	Differential Regulation of Human Bone Marrow Mesenchymal Stromal Cell Chondrogenesis by Hypoxia Inducible Factor-1 α Hydroxylase Inhibitors. <i>Stem Cells</i> , 2018, 36, 1380-1392.	1.4	51
29	Characterization of Porcine Aortic Valvular Interstitial Cell α -Calcified TM Nodules. <i>PLoS ONE</i> , 2012, 7, e48154.	1.1	47
30	Short Collagen Fibers Provide Control of Contraction and Permeability in Fibroblast-Seeded Collagen Gels. <i>Tissue Engineering</i> , 2004, 10, 421-427.	4.9	46
31	Hypoxia impacts human MSC response to substrate stiffness during chondrogenic differentiation. <i>Acta Biomaterialia</i> , 2019, 89, 73-83.	4.1	46
32	Composition of Mineral Produced by Dental Mesenchymal Stem Cells. <i>Journal of Dental Research</i> , 2015, 94, 1568-1574.	2.5	39
33	Translation Approach for Dentine Regeneration Using GSK-3 Antagonists. <i>Journal of Dental Research</i> , 2020, 99, 544-551.	2.5	39
34	Optimisation of lithium-substituted bioactive glasses to tailor cell response for hard tissue repair. <i>Journal of Materials Science</i> , 2017, 52, 8832-8844.	1.7	38
35	Neighboring cells override 3D hydrogel matrix cues to drive human MSC quiescence. <i>Biomaterials</i> , 2018, 176, 13-23.	5.7	38
36	Collective Cell Behavior in Mechanosensing of Substrate Thickness. <i>Biophysical Journal</i> , 2018, 114, 2743-2755.	0.2	38

#	ARTICLE	IF	CITATIONS
37	Perivascular Stem Cells at the Tip of Mouse Incisors Regulate Tissue Regeneration. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 514-523.	3.1	37
38	Intrinsic Mechanical Cues and Their Impact on Stem Cells and Embryogenesis. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 761871.	1.8	37
39	Adhesive Hydrogels for Maxillofacial Tissue Regeneration Using Minimally Invasive Procedures. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901134.	3.9	29
40	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-e2031.	2.7	28
41	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, 1029-1035.	1.7	27
42	Hypoxia Inducible Factor-1 α in Osteochondral Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 105-115.	2.5	27
43	A Hydrogel-Integrated Culture Device to Interrogate T Cell Activation with Physicochemical Cues. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47355-47367.	4.0	27
44	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.	0.9	26
45	Therapeutic Ion-Releasing Bioactive Glass Ionomer Cements with Improved Mechanical Strength and Radiopacity. <i>Frontiers in Materials</i> , 2015, 2, .	1.2	25
46	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.	2.6	25
47	A comparison of lithium-substituted phosphate and borate bioactive glasses for mineralised tissue repair. <i>Dental Materials</i> , 2019, 35, 919-927.	1.6	23
48	Aortic valve calcification: a bone of contention. <i>European Heart Journal</i> , 2016, 38, ehw071.	1.0	20
49	Gene-expression analysis reveals that embryonic stem cells cultured under osteogenic conditions produce mineral non-specifically compared to marrow stromal cells or osteoblasts. , 2012, 24, 211-223.		16
50	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.	1.9	15
51	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, 723-732.	0.8	14
52	GSK3 Inhibitor-Induced Dentinogenesis Using a Hydrogel. <i>Journal of Dental Research</i> , 2022, 101, 46-53.	2.5	11
53	Rethinking Cancer Immunotherapy by Embracing and Engineering Complexity. <i>Trends in Biotechnology</i> , 2020, 38, 1054-1065.	4.9	10
54	Correlative spectroscopy of silicates in mineralised nodules formed from osteoblasts. <i>Nanoscale</i> , 2013, 5, 7544.	2.8	9

#	ARTICLE	IF	CITATIONS
55	A modified glass ionomer cement to mediate dentine repair. <i>Dental Materials</i> , 2021, 37, 1307-1315.	1.6	9
56	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.	0.2	8
57	Pluripotency state regulates cytoneme selectivity and self-organization of embryonic stem cells. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	8
58	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.	5.7	6
59	Design considerations for engineering 3D models to study vascular pathologies in vitro. <i>Acta Biomaterialia</i> , 2021, 132, 114-128.	4.1	5
60	Complementary techniques to analyse pericellular matrix formation by human MSC within hyaluronic acid hydrogels. <i>Materials Advances</i> , 2020, 1, 2888-2896.	2.6	4
61	Local depletion of proteoglycans mediates cartilage tissue repair in an ex vivo integration model. <i>Acta Biomaterialia</i> , 2022, 149, 179-188.	4.1	3
62	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, 508-516.	0.7	2
63	Collagen Composite Biomaterials Resist Contraction While Allowing Development of Adipocytic Soft Tissue In Vitro. <i>Tissue Engineering</i> , 2006, .	4.9	2
64	Inflation comes before the fall: How epithelial stretch drives crypt fission. <i>Cell Stem Cell</i> , 2021, 28, 1505-1506.	5.2	1
65	Conference Scene: Challenges to commercialization. <i>Regenerative Medicine</i> , 2010, 5, 341-343.	0.8	0
66	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 Crohn's and Colitis</i> , 2021, 15, S013-S014.	0.6	0