Caroline M Curtin

List of Publications by Year
in descending order

28 papers	1,654 citations	304602 22 h-index	580701 25 g-index
28 all docs	28 docs citations	28 times ranked	2382 citing authors

#	Article	IF	Citations
1	Life in 3D is never flat: 3D models to optimise drug delivery. Journal of Controlled Release, 2015, 215, 39-54.	4.8	184
2	Innovative Collagen Nanoâ€Hydroxyapatite Scaffolds Offer a Highly Efficient Nonâ€Viral Gene Delivery Platform for Stem Cellâ€Mediated Bone Formation. Advanced Materials, 2012, 24, 749-754.	11.1	182
3	Combinatorial Gene Therapy Accelerates Bone Regeneration: Nonâ€Viral Dual Delivery of VEGF and BMP2 in a Collagenâ€Nanohydroxyapatite Scaffold. Advanced Healthcare Materials, 2015, 4, 223-227.	3.9	151
4	Mechanosignalling in cartilage: an emerging target for the treatment of osteoarthritis. Nature Reviews Rheumatology, 2022, 18, 67-84.	3.5	117
5	Translating the role of osteogenic-angiogenic coupling in bone formation: Highly efficient chitosan-pDNA activated scaffolds can accelerate bone regeneration in critical-sized bone defects. Biomaterials, 2017, 149, 116-127.	5.7	106
6	Development of a gene-activated scaffold platform for tissue engineering applications using chitosan-pDNA nanoparticles on collagen-based scaffolds. Journal of Controlled Release, 2015, 210, 84-94.	4.8	95
7	The use of collagen-based scaffolds to simulate prostate cancer bone metastases with potential for evaluating delivery of nanoparticulate gene therapeutics. Biomaterials, 2015, 66, 53-66.	5.7	90
8	A novel collagen-nanohydroxyapatite microRNA-activated scaffold for tissue engineering applications capable of efficient delivery of both miR-mimics and antagomiRs to human mesenchymal stem cells. Journal of Controlled Release, 2015, 200, 42-51.	4.8	85
9	Content-Dependent Osteogenic Response of Nanohydroxyapatite: An in Vitro and in Vivo Assessment within Collagen-Based Scaffolds. ACS Applied Materials & Interfaces, 2016, 8, 23477-23488.	4.0	70
10	Next generation bone tissue engineering: non-viral miR-133a inhibition using collagen-nanohydroxyapatite scaffolds rapidly enhances osteogenesis. Scientific Reports, 2016, 6, 27941.	1.6	68
11	Mesenchymal Stem Cells and Osteoarthritis: Remedy or Accomplice?. Human Gene Therapy, 2010, 21, 1239-1250.	1.4	62
12	Scaffoldâ€Based microRNA Therapies in Regenerative Medicine and Cancer. Advanced Healthcare Materials, 2018, 7, 1700695.	3.9	55
13	A physiologically relevant 3D collagen-based scaffoldâ€“neuroblastoma cell system exhibits chemosensitivity similar to orthotopic xenograft models. Acta Biomaterialia, 2018, 70, 84-97.	4.1	49
14	Formulation and Evaluation of Anisamide-Targeted Amphiphilic Cyclodextrin Nanoparticles To Promote Therapeutic Gene Silencing in a 3D Prostate Cancer Bone Metastases Model. Molecular Pharmaceutics, 2017, 14, 42-52.	2.3	44
15	Non-viral gene-activated matrices. Organogenesis, 2013, 9, 22-28.	0.4	40
16	Harnessing an Inhibitory Role of miR-16 in Osteogenesis by Human Mesenchymal Stem Cells for Advanced Scaffold-Based Bone Tissue Engineering. Tissue Engineering - Part A, 2019, 25, 24-33.	1.6	37
17	Scaffoldâ€Based Delivery of Nucleic Acid Therapeutics for Enhanced Bone and Cartilage Repair. Journal of Orthopaedic Research, 2019, 37, 1671-1680.	1.2	34
18	Preclinical models for neuroblastoma: Advances and challenges. Cancer Letters, 2020, 474, 53-62.	3.2	34

#	Article	IF	Citations
19	Nanoparticle-mediated siRNA delivery assessed in a 3D co-culture model simulating prostate cancer bone metastasis. International Journal of Pharmaceutics, 2016, 511, 1058-1069.	2.6	30
20	Rapid bone repair with the recruitment of CD206+M2-like macrophages using non-viral scaffold-mediated miR-133a inhibition of host cells. Acta Biomaterialia, 2020, 109, 267-279.	4.1	30
21	Layered Double Hydroxide as a Potent Non-viral Vector for Nucleic Acid Delivery Using Gene-Activated Scaffolds for Tissue Regeneration Applications. Pharmaceutics, 2020, 12, 1219.	2.0	26
22	Influences of the 3D microenvironment on cancer cell behaviour and treatment responsiveness: A recent update on lung, breast and prostate cancer models. Acta Biomaterialia, 2021, 132, 360-378.	4.1	25
23	Articulation inspired by nature: a review of biomimetic and biologically active 3D printed scaffolds for cartilage tissue engineering. Biomaterials Science, 2022, 10, 2462-2483.	2.6	19
24	Development of a Gene-Activated Scaffold Incorporating Multifunctional Cell-Penetrating Peptides for pSDF-1Î± Delivery for Enhanced Angiogenesis in Tissue Engineering Applications. International Journal of Molecular Sciences, 2022, 23, 1460.	1.8	15
25	The Effect of Fluid Flow Shear Stress and Substrate Stiffness on Yes-Associated Protein (YAP) Activity and Osteogenesis in Murine Osteosarcoma Cells. Cancers, 2021, 13, 3128.	1.7	6
26	microRNA Modulation. , 2019, , 1-66.		0
27	Co-culture and 3D tumor models for drug/gene therapy testing. , 2020, , 505-532.		0
28	microRNA Modulation. , 2020, , 511-576.		0