Donald O Freytes

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9401014/publications.pdf

Version: 2024-02-01

42 papers	4,955 citations	236925 25 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	6846 citing authors

#	Article	IF	Citations
1	Extracellular matrix as a biological scaffold material: Structure and function. Acta Biomaterialia, 2009, 5, 1-13.	8.3	1,450
2	Preparation and rheological characterization of a gel form of the porcine urinary bladder matrix. Biomaterials, 2008, 29, 1630-1637.	11.4	426
3	Degradation Products of Extracellular Matrix Affect Cell Migration and Proliferation. Tissue Engineering - Part A, 2009, 15, 605-614.	3.1	329
4	Esophageal Reconstruction with ECM and Muscle Tissue in a Dog Model. Journal of Surgical Research, 2005, 128, 87-97.	1.6	266
5	Directed Differentiation of Human Pluripotent Stem Cells to Microglia. Stem Cell Reports, 2017, 8, 1516-1524.	4.8	260
6	Macrophages modulate the viability and growth of human mesenchymal stem cells. Journal of Cellular Biochemistry, 2013, 114, 220-229.	2.6	211
7	Decellularization of Human and Porcine Lung Tissues for Pulmonary Tissue Engineering. Annals of Thoracic Surgery, 2013, 96, 1046-1056.	1.3	203
8	Biaxial strength of multilaminated extracellular matrix scaffolds. Biomaterials, 2004, 25, 2353-2361.	11.4	200
9	Hybrid Gel Composed of Native Heart Matrix and Collagen Induces Cardiac Differentiation of Human Embryonic Stem Cells without Supplemental Growth Factors. Journal of Cardiovascular Translational Research, 2011, 4, 605-615.	2.4	161
10	Collagen fiber alignment and biaxial mechanical behavior of porcine urinary bladder derived extracellular matrix. Biomaterials, 2008, 29, 4775-4782.	11.4	158
11	Differential gene expression in human, murine, and cell line-derived macrophages upon polarization. Experimental Cell Research, 2016, 347, 1-13.	2.6	131
12	Uniaxial and biaxial properties of terminally sterilized porcine urinary bladder matrix scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 84B, 408-414.	3.4	111
13	Controlled release of cytokines using silk-biomaterials for macrophage polarization. Biomaterials, 2015, 73, 272-283.	11.4	110
14	Mesenchymal Stem Cell/Red Blood Cell-Inspired Nanoparticle Therapy in Mice with Carbon Tetrachloride-Induced Acute Liver Failure. ACS Nano, 2018, 12, 6536-6544.	14.6	109
15	Hybrid nanofibrous scaffolds from electrospinning of a synthetic biodegradable elastomer and urinary bladder matrix. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 635-652.	3.5	102
16	The regulation of growth and metabolism of kidney stem cells with regional specificity using extracellular matrix derived from kidney. Biomaterials, 2013, 34, 9830-9841.	11.4	99
17	Tissue Engineering Strategies for Myocardial Regeneration: Acellular Versus Cellular Scaffolds?. Tissue Engineering - Part B: Reviews, 2016, 22, 438-458.	4.8	83
18	Macrophages Modulate Engineered Human Tissues for Enhanced Vascularization and Healing. Annals of Biomedical Engineering, 2015, 43, 616-627.	2.5	64

#	Article	IF	Citations
19	Geometry and force control of cell function. Journal of Cellular Biochemistry, 2009, 108, 1047-1058.	2.6	57
20	Response of human macrophages to wound matrices in vitro. Wound Repair and Regeneration, 2016, 24, 514-524.	3.0	55
21	Platelet-like particles dynamically stiffen fibrin matrices and improve wound healing outcomes. Biomaterials Science, 2019, 7, 669-682.	5.4	47
22	Analytically derived material properties of multilaminated extracellular matrix devices using the ball-burst test. Biomaterials, 2005, 26, 5518-5531.	11.4	44
23	Toward beta cell replacement for diabetes. EMBO Journal, 2015, 34, 841-855.	7.8	40
24	Optimizing Dynamic Interactions between a Cardiac Patch and Inflammatory Host Cells. Cells Tissues Organs, 2012, 195, 171-182.	2.3	34
25	Macrophagesâ€™ Role in Tissue Disease and Regeneration. Results and Problems in Cell Differentiation, 2017, 62, 245-271.	0.7	26
26	BMP protein-mediated crosstalk between inflammatory cells and human pluripotent stem cell-derived cardiomyocytes. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1466-1478.	2.7	23
27	Mast Cellâ€“Biomaterial Interactions and Tissue Repair. Tissue Engineering - Part B: Reviews, 2021, 27, 590-603.	4.8	21
28	Potential Synergistic Effects of Stem Cells and Extracellular Matrix Scaffolds. ACS Biomaterials Science and Engineering, 2018, 4, 1208-1222.	5.2	18
29	Photoinduced reconfiguration to control the protein-binding affinity of azobenzene-cyclized peptides. Journal of Materials Chemistry B, 2020, 8, 7413-7427.	5.8	17
30	Porcine Vocal Fold Lamina Propria-Derived Biomaterials Modulate TGF-Î²1-Mediated Fibroblast Activation in Vitro. ACS Biomaterials Science and Engineering, 2020, 6, 1690-1703.	5.2	14
31	Derivation and characterization of porcine vocal fold extracellular matrix scaffold. Laryngoscope, 2016, 126, 928-935.	2.0	12
32	Dermal Extracellular Matrix-Derived Hydrogels as an In Vitro Substrate to Study Mast Cell Maturation. Tissue Engineering - Part A, 2021, 27, 1008-1022.	3.1	10
33	Fast Automated Approach for the Derivation of Acellular Extracellular Matrix Scaffolds from Porcine Soft Tissues. ACS Biomaterials Science and Engineering, 2020, 6, 4200-4213.	5.2	10
34	Extracellular Matrix for Vocal Fold Lamina Propria Replacement: A Review. Tissue Engineering - Part B: Reviews, 2016, 22, 421-429.	4.8	9
35	Platelet-like particles improve fibrin network properties in a hemophilic model of provisional matrix structural defects. Journal of Colloid and Interface Science, 2020, 577, 406-418.	9.4	8
36	Monitoring decellularization via absorbance spectroscopy during the derivation of extracellular matrix scaffolds. Biomedical Materials (Bristol), 2022, 17, 015008.	3.3	8

#	Article	IF	Citations
37	Extracellular Matrix Hydrogels Promote Expression of Muscle-Tendon Junction Proteins. Tissue Engineering - Part A, 2022, 28, 270-282.	3.1	7
38	Transcriptome-targeted analysis of human peripheral blood-derived macrophages when cultured on biomaterial meshes. Biomedical Materials (Bristol), 2021, 16, 025006.	3.3	6
39	Contributions of bone morphogenetic proteins in cardiac repair cells in threeâ€dimensional in vitro models and angiogenesis. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 349-359.	2.7	5
40	Microphysiological System for High-Throughput Computer Vision Measurement of Microtissue Contraction. ACS Sensors, 2021, 6, 985-994.	7.8	5
41	Effects of polarized macrophages on the in vitro gene expression after Co-Culture of human pluripotent stem cell-derived cardiomyocytes. Journal of Immunology and Regenerative Medicine, 2019, 4, 100018.	0.4	4
42	Bioreactors for Vocal Fold Tissue Engineering. Tissue Engineering - Part B: Reviews, 2021, , .	4.8	1