Donald O Freytes

List of Publications by Year
in descending order

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42 papers	4,955 citations	236612 25 h-index	264894 42 g-index
43 all docs	43 docs citations	43 times ranked	6846 citing authors

#	Article	IF	Citations
1	Extracellular Matrix Hydrogels Promote Expression of Muscle-Tendon Junction Proteins. Tissue Engineering - Part A, 2022, 28, 270-282.	1.6	7
2	Monitoring decellularization via absorbance spectroscopy during the derivation of extracellular matrix scaffolds. Biomedical Materials (Bristol), 2022, 17, 015008.	1.7	8
3	Dermal Extracellular Matrix-Derived Hydrogels as an In Vitro Substrate to Study Mast Cell Maturation. Tissue Engineering - Part A, 2021, 27, 1008-1022.	1.6	10
4	Mast Cellâ€“Biomaterial Interactions and Tissue Repair. Tissue Engineering - Part B: Reviews, 2021, 27, 590-603.	2.5	21
5	Transcriptome-targeted analysis of human peripheral blood-derived macrophages when cultured on biomaterial meshes. Biomedical Materials (Bristol), 2021, 16, 025006.	1.7	6
6	Bioreactors for Vocal Fold Tissue Engineering. Tissue Engineering - Part B: Reviews, 2021, , .	2.5	1
7	Microphysiological System for High-Throughput Computer Vision Measurement of Microtissue Contraction. ACS Sensors, 2021, 6, 985-994.	4.0	5
8	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.	5.0	8
9	Photoinduced reconfiguration to control the protein-binding affinity of azobenzene-cyclized peptides. Journal of Materials Chemistry B, 2020, 8, 7413-7427.	2.9	17
10	Fast Automated Approach for the Derivation of Acellular Extracellular Matrix Scaffolds from Porcine Soft Tissues. ACS Biomaterials Science and Engineering, 2020, 6, 4200-4213.	2.6	10
11	Porcine Vocal Fold Lamina Propria-Derived Biomaterials Modulate TGF-Î²1-Mediated Fibroblast Activation in Vitro. ACS Biomaterials Science and Engineering, 2020, 6, 1690-1703.	2.6	14
12	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.	0.2	4
13	Platelet-like particles dynamically stiffen fibrin matrices and improve wound healing outcomes. Biomaterials Science, 2019, 7, 669-682.	2.6	47
14	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.	1.3	5
15	Potential Synergistic Effects of Stem Cells and Extracellular Matrix Scaffolds. ACS Biomaterials Science and Engineering, 2018, 4, 1208-1222.	2.6	18
16	Mesenchymal Stem Cell/Red Blood Cell-Inspired Nanoparticle Therapy in Mice with Carbon Tetrachloride-Induced Acute Liver Failure. ACS Nano, 2018, 12, 6536-6544.	7.3	109
17	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.	1.3	23
18	Macrophagesâ€™ Role in Tissue Disease and Regeneration. Results and Problems in Cell Differentiation, 2017, 62, 245-271.	0.2	26

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19	Directed Differentiation of Human Pluripotent Stem Cells to Microglia. Stem Cell Reports, 2017, 8, 1516-1524.	2.3	260
20	Derivation and characterization of porcine vocal fold extracellular matrix scaffold. Laryngoscope, 2016, 126, 928-935.	1.1	12
21	Response of human macrophages to wound matrices in vitro. Wound Repair and Regeneration, 2016, 24, 514-524.	1.5	55
22	Extracellular Matrix for Vocal Fold Lamina Propria Replacement: A Review. Tissue Engineering - Part B: Reviews, 2016, 22, 421-429.	2.5	9
23	Tissue Engineering Strategies for Myocardial Regeneration: Acellular Versus Cellular Scaffolds?. Tissue Engineering - Part B: Reviews, 2016, 22, 438-458.	2.5	83
24	Differential gene expression in human, murine, and cell line-derived macrophages upon polarization. Experimental Cell Research, 2016, 347, 1-13.	1.2	131
25	Macrophages Modulate Engineered Human Tissues for Enhanced Vascularization and Healing. Annals of Biomedical Engineering, 2015, 43, 616-627.	1.3	64
26	Toward beta cell replacement for diabetes. EMBO Journal, 2015, 34, 841-855.	3.5	40
27	Controlled release of cytokines using silk-biomaterials for macrophage polarization. Biomaterials, 2015, 73, 272-283.	5.7	110
28	The regulation of growth and metabolism of kidney stem cells with regional specificity using extracellular matrix derived from kidney. Biomaterials, 2013, 34, 9830-9841.	5.7	99
29	Macrophages modulate the viability and growth of human mesenchymal stem cells. Journal of Cellular Biochemistry, 2013, 114, 220-229.	1.2	211
30	Decellularization of Human and Porcine Lung Tissues for Pulmonary Tissue Engineering. Annals of Thoracic Surgery, 2013, 96, 1046-1056.	0.7	203
31	Optimizing Dynamic Interactions between a Cardiac Patch and Inflammatory Host Cells. Cells Tissues Organs, 2012, 195, 171-182.	1.3	34
32	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.	1.1	161
33	Geometry and force control of cell function. Journal of Cellular Biochemistry, 2009, 108, 1047-1058.	1.2	57
34	Extracellular matrix as a biological scaffold material: Structure and function. Acta Biomaterialia, 2009, 5, 1-13.	4.1	1,450
35	Degradation Products of Extracellular Matrix Affect Cell Migration and Proliferation. Tissue Engineering - Part A, 2009, 15, 605-614.	1.6	329
36	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.	1.6	111

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37	Preparation and rheological characterization of a gel form of the porcine urinary bladder matrix. Biomaterials, 2008, 29, 1630-1637.	5.7	426
38	Collagen fiber alignment and biaxial mechanical behavior of porcine urinary bladder derived extracellular matrix. Biomaterials, 2008, 29, 4775-4782.	5.7	158
39	Hybrid nanofibrous scaffolds from electrospinning of a synthetic biodegradable elastomer and urinary bladder matrix. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 635-652.	1.9	102
40	Analytically derived material properties of multilaminated extracellular matrix devices using the ball-burst test. Biomaterials, 2005, 26, 5518-5531.	5.7	44
41	Esophageal Reconstruction with ECM and Muscle Tissue in a Dog Model. Journal of Surgical Research, 2005, 128, 87-97.	0.8	266
42	Biaxial strength of multilaminated extracellular matrix scaffolds. Biomaterials, 2004, 25, 2353-2361.	5.7	200