

Donald O Freytes

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

4,955
citations

236833

25
h-index

265120

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. <i>Acta Biomaterialia</i> , 2009, 5, 1-13.	4.1	1,450
2	Preparation and rheological characterization of a gel form of the porcine urinary bladder matrix. <i>Biomaterials</i> , 2008, 29, 1630-1637.	5.7	426
3	Degradation Products of Extracellular Matrix Affect Cell Migration and Proliferation. <i>Tissue Engineering - Part A</i> , 2009, 15, 605-614.	1.6	329
4	Esophageal Reconstruction with ECM and Muscle Tissue in a Dog Model. <i>Journal of Surgical Research</i> , 2005, 128, 87-97.	0.8	266
5	Directed Differentiation of Human Pluripotent Stem Cells to Microglia. <i>Stem Cell Reports</i> , 2017, 8, 1516-1524.	2.3	260
6	Macrophages modulate the viability and growth of human mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 220-229.	1.2	211
7	Decellularization of Human and Porcine Lung Tissues for Pulmonary Tissue Engineering. <i>Annals of Thoracic Surgery</i> , 2013, 96, 1046-1056.	0.7	203
8	Biaxial strength of multilaminated extracellular matrix scaffolds. <i>Biomaterials</i> , 2004, 25, 2353-2361.	5.7	200
9	Hybrid Gel Composed of Native Heart Matrix and Collagen Induces Cardiac Differentiation of Human Embryonic Stem Cells without Supplemental Growth Factors. <i>Journal of Cardiovascular Translational Research</i> , 2011, 4, 605-615.	1.1	161
10	Collagen fiber alignment and biaxial mechanical behavior of porcine urinary bladder derived extracellular matrix. <i>Biomaterials</i> , 2008, 29, 4775-4782.	5.7	158
11	Differential gene expression in human, murine, and cell line-derived macrophages upon polarization. <i>Experimental Cell Research</i> , 2016, 347, 1-13.	1.2	131
12	Uniaxial and biaxial properties of terminally sterilized porcine urinary bladder matrix scaffolds. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 408-414.	1.6	111
13	Controlled release of cytokines using silk-biomaterials for macrophage polarization. <i>Biomaterials</i> , 2015, 73, 272-283.	5.7	110
14	Mesenchymal Stem Cell/Red Blood Cell-Inspired Nanoparticle Therapy in Mice with Carbon Tetrachloride-Induced Acute Liver Failure. <i>ACS Nano</i> , 2018, 12, 6536-6544.	7.3	109
15	Hybrid nanofibrous scaffolds from electrospinning of a synthetic biodegradable elastomer and urinary bladder matrix. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008, 19, 635-652.	1.9	102
16	The regulation of growth and metabolism of kidney stem cells with regional specificity using extracellular matrix derived from kidney. <i>Biomaterials</i> , 2013, 34, 9830-9841.	5.7	99
17	Tissue Engineering Strategies for Myocardial Regeneration: Acellular Versus Cellular Scaffolds?. <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 438-458.	2.5	83
18	Macrophages Modulate Engineered Human Tissues for Enhanced Vascularization and Healing. <i>Annals of Biomedical Engineering</i> , 2015, 43, 616-627.	1.3	64

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19	Geometry and force control of cell function. <i>Journal of Cellular Biochemistry</i> , 2009, 108, 1047-1058.	1.2	57
20	Response of human macrophages to wound matrices in vitro. <i>Wound Repair and Regeneration</i> , 2016, 24, 514-524.	1.5	55
21	Platelet-like particles dynamically stiffen fibrin matrices and improve wound healing outcomes. <i>Biomaterials Science</i> , 2019, 7, 669-682.	2.6	47
22	Analytically derived material properties of multilaminated extracellular matrix devices using the ball-burst test. <i>Biomaterials</i> , 2005, 26, 5518-5531.	5.7	44
23	Toward beta cell replacement for diabetes. <i>EMBO Journal</i> , 2015, 34, 841-855.	3.5	40
24	Optimizing Dynamic Interactions between a Cardiac Patch and Inflammatory Host Cells. <i>Cells Tissues Organs</i> , 2012, 195, 171-182.	1.3	34
25	Macrophagesâ€™ Role in Tissue Disease and Regeneration. <i>Results and Problems in Cell Differentiation</i> , 2017, 62, 245-271.	0.2	26
26	BMP protein-mediated crosstalk between inflammatory cells and human pluripotent stem cell-derived cardiomyocytes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 1466-1478.	1.3	23
27	Mast Cellâ€™s Biomaterial Interactions and Tissue Repair. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 590-603.	2.5	21
28	Potential Synergistic Effects of Stem Cells and Extracellular Matrix Scaffolds. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1208-1222.	2.6	18
29	Photoinduced reconfiguration to control the protein-binding affinity of azobenzene-cyclized peptides. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7413-7427.	2.9	17
30	Porcine Vocal Fold Lamina Propria-Derived Biomaterials Modulate TGF-Î²1-Mediated Fibroblast Activation in Vitro. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1690-1703.	2.6	14
31	Derivation and characterization of porcine vocal fold extracellular matrix scaffold. <i>Laryngoscope</i> , 2016, 126, 928-935.	1.1	12
32	Dermal Extracellular Matrix-Derived Hydrogels as an <i>In Vitro</i> Substrate to Study Mast Cell Maturation. <i>Tissue Engineering - Part A</i> , 2021, 27, 1008-1022.	1.6	10
33	Fast Automated Approach for the Derivation of Acellular Extracellular Matrix Scaffolds from Porcine Soft Tissues. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4200-4213.	2.6	10
34	Extracellular Matrix for Vocal Fold Lamina Propria Replacement: A Review. <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 421-429.	2.5	9
35	Platelet-like particles improve fibrin network properties in a hemophilic model of provisional matrix structural defects. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 406-418.	5.0	8
36	Monitoring decellularization via absorbance spectroscopy during the derivation of extracellular matrix scaffolds. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 015008.	1.7	8

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37	Extracellular Matrix Hydrogels Promote Expression of Muscle-Tendon Junction Proteins. <i>Tissue Engineering - Part A</i> , 2022, 28, 270-282.	1.6	7
38	Transcriptome-targeted analysis of human peripheral blood-derived macrophages when cultured on biomaterial meshes. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 025006.	1.7	6
39	Contributions of bone morphogenetic proteins in cardiac repair cells in three-dimensional <i>in vitro</i> models and angiogenesis. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 349-359.	1.3	5
40	Microphysiological System for High-Throughput Computer Vision Measurement of Microtissue Contraction. <i>ACS Sensors</i> , 2021, 6, 985-994.	4.0	5
41	Effects of polarized macrophages on the <i>in vitro</i> gene expression after Co-Culture of human pluripotent stem cell-derived cardiomyocytes. <i>Journal of Immunology and Regenerative Medicine</i> , 2019, 4, 100018.	0.2	4
42	Bioreactors for Vocal Fold Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , 2021, , .	2.5	1