

Jeffrey M Davidson

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,510
citations

186265

28
h-index

233421

45
g-index

50
all docs

50
docs citations

50
times ranked

3332
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue ablation by a free-electron laser tuned to the amide II band. <i>Nature</i> , 1994, 371, 416-419.	27.8	251
2	The effect of the local delivery of platelet-derived growth factor from reactive two-component polyurethane scaffolds on the healing in rat skin excisional wounds. <i>Biomaterials</i> , 2009, 30, 3486-3494.	11.4	143
3	A porous tissue engineering scaffold selectively degraded by cell-generated reactive oxygen species. <i>Biomaterials</i> , 2014, 35, 3766-3776.	11.4	124
4	Injectable Biodegradable Polyurethane Scaffolds with Release of Platelet-derived Growth Factor for Tissue Repair and Regeneration. <i>Pharmaceutical Research</i> , 2008, 25, 2387-2399.	3.5	119
5	Differential stimulation of collagenase and chemotactic activity in fibroblasts derived from rat wound repair tissue and human skin by growth factors. <i>Journal of Cellular Physiology</i> , 1989, 138, 70-78.	4.1	111
6	Characterization of the degradation mechanisms of lysine-derived aliphatic poly(ester urethane) scaffolds. <i>Biomaterials</i> , 2011, 32, 419-429.	11.4	111
7	Fibroblasts from wounds of different stages of repair vary in their ability to contract a collagen gel in response to growth factors. <i>Journal of Cellular Physiology</i> , 1990, 144, 99-107.	4.1	110
8	Modulation of transforming growth factor-beta 1 stimulated elastin and collagen production and proliferation in porcine vascular smooth muscle cells and skin fibroblasts by basic fibroblast growth factor, transforming growth factor- β , and insulin-like growth factor-I. <i>Journal of Cellular Physiology</i> , 1993, 155, 149-156.	4.1	110
9	Tunable Delivery of siRNA from a Biodegradable Scaffold to Promote Angiogenesis In Vivo. <i>Advanced Materials</i> , 2014, 26, 607-614.	21.0	106
10	I-Wire Heart-on-a-Chip I: Three-dimensional cardiac tissue constructs for physiology and pharmacology. <i>Acta Biomaterialia</i> , 2017, 48, 68-78.	8.3	97
11	Splinting Strategies to Overcome Confounding Wound Contraction in Experimental Animal Models. <i>Advances in Wound Care</i> , 2013, 2, 142-148.	5.1	87
12	Sustained microgravity reduces intrinsic wound healing and growth factor responses in the rat. <i>FASEB Journal</i> , 1999, 13, 325-329.	0.5	86
13	Patellar tendon and anterior cruciate ligament have different mitogenic responses to platelet-derived growth factor and transforming growth factor β . <i>Journal of Orthopaedic Research</i> , 1996, 14, 542-546.	2.3	77
14	Local Delivery of PHD2 siRNA from ROS α -Degradable Scaffolds to Promote Diabetic Wound Healing. <i>Advanced Healthcare Materials</i> , 2016, 5, 2751-2757.	7.6	71
15	Delayed wound healing in aged rats is associated with increased collagen gel remodeling and contraction by skin fibroblasts, not with differences in apoptotic or myofibroblast cell populations. <i>Wound Repair and Regeneration</i> , 2001, 9, 223-237.	3.0	67
16	Boosting epidermal growth factor receptor expression by gene gun transfection stimulates epidermal growth in vivo. <i>Wound Repair and Regeneration</i> , 2000, 8, 117-127.	3.0	63
17	Particle-mediated gene therapy of wounds. <i>Wound Repair and Regeneration</i> , 2000, 8, 452-459.	3.0	61
18	Targeted inhibition of ANKRD1 disrupts sarcomeric ERK-GATA4 signal transduction and abrogates phenylephrine-induced cardiomyocyte hypertrophy. <i>Cardiovascular Research</i> , 2015, 106, 261-271.	3.8	53

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19	BMP1-like proteinases are essential to the structure and wound healing of skin. <i>Matrix Biology</i> , 2016, 56, 114-131.	3.6	41
20	Pivotal Role for α 1-Antichymotrypsin in Skin Repair. <i>Journal of Biological Chemistry</i> , 2011, 286, 28889-28901.	3.4	39
21	Deficits in Col5a2 Expression Result in Novel Skin and Adipose Abnormalities and Predisposition to Aortic Aneurysms and Dissections. <i>American Journal of Pathology</i> , 2017, 187, 2300-2311.	3.8	38
22	Reactive oxygen speciesâ€“degradable polythioketal urethane foam dressings to promote porcine skin wound repair. <i>Science Translational Medicine</i> , 2022, 14, eabm6586.	12.4	37
23	Porcine Ischemic Wound-Healing Model for Preclinical Testing of Degradable Biomaterials. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 754-762.	2.1	34
24	Epithelial-Derived Inflammation Disrupts Elastin Assembly and Alters Saccular Stage Lung Development. <i>American Journal of Pathology</i> , 2016, 186, 1786-1800.	3.8	32
25	Injectable polyurethane composite scaffolds delay wound contraction and support cellular infiltration and remodeling in rat excisional wounds. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 450-461.	4.0	29
26	Enhanced performance of plasmid DNA polyplexes stabilized by a combination of core hydrophobicity and surface PEGylation. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8154-8164.	5.8	29
27	A transient cell-shielding method for viable MSC delivery within hydrophobic scaffolds polymerized in situ. <i>Biomaterials</i> , 2015, 54, 21-33.	11.4	28
28	Global Deletion of Ankrd1 Results in a Wound-Healing Phenotype Associated with Dermal Fibroblast Dysfunction. <i>American Journal of Pathology</i> , 2015, 185, 96-109.	3.8	28
29	Reversal of the wound healing deficit in diabetic rats by combined basic fibroblast growth factor and transforming growth factor-beta1 therapy. <i>Wound Repair and Regeneration</i> , 1997, 5, 77-88.	3.0	26
30	The Effects of Keratinocyte Growth Factor on Healing of Tympanic Membrane Perforations. <i>Laryngoscope</i> , 1996, 106, 280-285.	2.0	24
31	Towards Retrievable Vascularized Bioartificial Pancreas: Induction and Long-Lasting Stability of Polymeric Mesh Implant Vascularized with the Help of Acidic and Basic Fibroblast Growth Factors and Hydrogel Coating. <i>Diabetes Technology and Therapeutics</i> , 2001, 3, 245-261.	4.4	24
32	Homozygosity and Heterozygosity for Null Col5a2 Alleles Produce Embryonic Lethality and a Novel Classic Ehlers-Danlos Syndromeâ€“Related Phenotype. <i>American Journal of Pathology</i> , 2015, 185, 2000-2011.	3.8	22
33	Wound samples: moving towards a standardised method of collection and analysis. <i>International Wound Journal</i> , 2016, 13, 880-891.	2.9	22
34	Canine subglottic stenosis as a model for excessive fibrosis: a pilot histologic and immunohistochemical analysis. <i>Wound Repair and Regeneration</i> , 1996, 4, 444-453.	3.0	20
35	Biodegradable lysine-derived polyurethane scaffolds promote healing in a porcine full-thickness excisional wound model. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1973-1985.	3.5	16
36	Sub ablation effects of the KTP laser on wound healing. <i>Lasers in Surgery and Medicine</i> , 1993, 13, 62-71.	2.1	15

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37	Injected biodegradable polyurethane scaffolds support tissue infiltration and delay wound contraction in a porcine excisional model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 1679-1690.	3.4	15
38	Accumulation and Regulation of Elastin in the Rat Uterus. <i>Experimental Biology and Medicine</i> , 1989, 192, 121-126.	2.4	14
39	Smad about Elastin Regulation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2002, 26, 164-166.	2.9	14
40	A tissue-culture model for the study of canine vocal fold fibroblasts. <i>Laryngoscope</i> , 1995, 105, 23-27.	2.0	9
41	Can Scarring Be Turned Off?. <i>American Journal of Pathology</i> , 2010, 176, 1588-1591.	3.8	5
42	Clinical interventions for venous leg ulcers: Proposals to improve the quality of clinical leg ulcer research. <i>Wound Repair and Regeneration</i> , 2016, 24, 767-774.	3.0	5
43	Particle-Mediated Gene Therapy of Wounds. , 2003, 78, 433-452.		4
44	Proteomic Revelations. <i>Journal of Investigative Dermatology</i> , 2014, 134, 2301-2302.	0.7	2
45	082 CM?1 (Cytomodulin), a Synthetic peptide, promotes collagen transcription and wound healing in bioluminescent mice. <i>Wound Repair and Regeneration</i> , 2004, 12, A22-A22.	3.0	1
46	037 Fibroblast growth factor ? binding protein cDNA and truncated variants are active in diabetic wound healing. <i>Wound Repair and Regeneration</i> , 2004, 12, A11-A11.	3.0	0
47	New and Alternative Treatments for the Diabetic Foot: Stem Cells and Gene Transfer. , 2006, , 198-206.		0
48	489. Localized, siRNA-Mediated Silencing of PHD2 to Promote Wound Vascularization. <i>Molecular Therapy</i> , 2015, 23, S194-S195.	8.2	0