James E Dennis

List of Publications by Year
in descending order

79 papers	9,991 citations	61857 43 h-index	74018 75 g-index
81 all docs	81 docs citations	81 times ranked	10678 citing authors

#	Article	IF	Citations
1	Mesenchymal stem cells as trophic mediators. Journal of Cellular Biochemistry, 2006, 98, 1076-1084.	1.2	2,613
2	The Dynamic in vivo Distribution of Bone Marrow-Derived Mesenchymal Stem Cells after Infusion. Cells Tissues Organs, 2001, 169, 12-20.	1.3	849
3	A Quadripotential Mesenchymal Progenitor Cell Isolated from the Marrow of an Adult Mouse. Journal of Bone and Mineral Research, 1999, 14, 700-709.	3.1	372
4	Hyaluronic acid-based polymers as cell carriers for tissue-engineered repair of bone and cartilage. Journal of Orthopaedic Research, 1999, 17, 205-213.	1.2	365
5	Stimulatory Effects of Basic Fibroblast Growth Factor and Bone Morphogenetic Protein-2 on Osteogenic Differentiation of Rat Bone Marrow-Derived Mesenchymal Stem Cells. Journal of Bone and Mineral Research, 1997, 12, 1606-1614.	3.1	333
6	The STRO-1+ Marrow Cell Population Is Multipotential. Cells Tissues Organs, 2002, 170, 73-82.	1.3	301
7	A Chemically Defined Medium Supports in Vitro Proliferation and Maintains the Osteochondral Potential of Rat Marrow-Derived Mesenchymal Stem Cells. Experimental Cell Research, 1995, 219, 211-222.	1.2	281
8	Origin and Differentiation of Human and Murine Stroma. Stem Cells, 2002, 20, 205-214.	1.4	279
9	Tissue-Engineered Fabrication of an Osteochondral Composite Graft Using Rat Bone Marrow-Derived Mesenchymal Stem Cells. Tissue Engineering, 2001, 7, 363-371.	4.9	262
10	Osteogenesis in Marrow-Derived Mesenchymal Cell Porous Ceramic Composites Transplanted Subcutaneously: Effect of Fibronectin and Laminin on Cell Retention and Rate of Osteogenic Expression. Cell Transplantation, 1992, 1, 23-32.	1.2	260
11	Hyaluronan-based polymers in the treatment of osteochondral defects. Journal of Orthopaedic Research, 2000, 18, 773-780.	1.2	198
12	Treatment of Osteochondral Defects with Autologous Bone Marrow in a Hyaluronan-Based Delivery Vehicle. Tissue Engineering, 2002, 8, 333-347.	4.9	162
13	LacZ and Interleukin-3 ExpressionIn Vivoafter Retroviral Transduction of Marrow-Derived Human Osteogenic Mesenchymal Progenitors. Human Gene Therapy, 1997, 8, 1417-1427.	1.4	161
14	Optimizing mesenchymal stem cell-based therapeutics. Current Opinion in Biotechnology, 2009, 20, 531-536.	3.3	161
15	Targeting Improves MSC Treatment of Inflammatory Bowel Disease. Molecular Therapy, 2010, 18, 1365-1372.	3.7	157
16	Osteochondrogenic potential of marrow mesenchymal progenitor cells exposed to TGF-Î²1 or PDGF-BB as assayed in vivo and in vitro. Journal of Bone and Mineral Research, 1996, 11, 1264-1273.	3.1	154
17	Immunochemical and Mechanical Characterization of Cartilage Subtypes in Rabbit. Journal of Histochemistry and Cytochemistry, 2002, 50, 1049-1058.	1.3	142
18	Cartilage repair: past and future â€“ lessons for regenerative medicine. Journal of Cellular and Molecular Medicine, 2009, 13, 792-810.	1.6	142

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19	Repair of Osteochondral Defect with Tissue-Engineered Two-Phase Composite Material of Injectable Calcium Phosphate and Hyaluronan Sponge. Tissue Engineering, 2002, 8, 827-837.	4.9	137
20	Collagens of the Chicken Eggshell Membranes. Connective Tissue Research, 1991, 26, 37-45.	1.1	132
21	One-Step Derivation of Mesenchymal Stem Cell (MSC)-Like Cells from Human Pluripotent Stem Cells on a Fibrillar Collagen Coating. PLoS ONE, 2012, 7, e33225.	1.1	120
22	Myogenic Expression of Mesenchymal Stem Cells within Myotubes of mdx Mice in Vitro and in Vivo. Tissue Engineering, 1995, 1, 327-343.	4.9	110
23	Microstructure of matrix and mineral components of eggshells from White Leghorn chickens (Gallus) Tj ETQq1 1 0.784314 rgBT /Ove		103
24	Targeting mesenchymal stem cells to activated endothelial cells. Biomaterials, 2009, 30, 3702-3710.	5.7	103
25	Imaging of Mesenchymal Stem Cell Transplant by Bioluminescence and PET. Journal of Nuclear Medicine, 2007, 48, 2011-2020.	2.8	100
26	Clinical-Scale Expansion of a Mixed Population of Bone Marrow-Derived Stem and Progenitor Cells for Potential Use in Bone Tissue Regeneration. Stem Cells, 2007, 25, 2575-2582.	1.4	89
27	Partial biochemical and immunochemical characterization of avian eggshell extracellular matrices. Archives of Biochemistry and Biophysics, 1992, 298, 293-302.	1.4	87
28	Synergistic Actions of Hematopoietic and Mesenchymal Stem/Progenitor Cells in Vascularizing Bioengineered Tissues. PLoS ONE, 2008, 3, e3922.	1.1	87
29	Tissue Engineering of Autologous Cartilage Grafts in Three-Dimensionalin VitroMacroaggregate Culture System. Tissue Engineering, 2004, 10, 1695-1706.	4.9	83
30	Differentiation potential of conditionally immortalized mesenchymal progenitor cells from adult marrow of a H-2Kb-tsA58 transgenic mouse. , 1996, 167, 523-538.		79
31	Targeted delivery of progenitor cells for cartilage repair. Journal of Orthopaedic Research, 2004, 22, 735-741.	1.2	78
32	In vitro dexamethasone pretreatment enhances bone formation of human mesenchymal stem cells in vivo. Journal of Orthopaedic Research, 2009, 27, 916-921.	1.2	78
33	Enhanced Chondrogenic Differentiation of Dental Pulp Stem Cells Using Nanopatterned PEG-GelMA-HA Hydrogels. Tissue Engineering - Part A, 2014, 20, 2817-2829.	1.6	70
34	In vivo osteogenesis assay: a rapid method for quantitative analysis. Biomaterials, 1998, 19, 1323-1328.	5.7	68
35	The Avian Eggshell Extracellular Matrix as a Model for Biomineralization. Connective Tissue Research, 1996, 35, 325-328.	1.1	65
36	Fabrication of a Neotrachea Using Engineered Cartilage. Laryngoscope, 2008, 118, 593-598.	1.1	61

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37	Cartilage Tissue Engineering for Laryngotracheal Reconstruction: Comparison of Chondrocytes from Three Anatomic Locations in the Rabbit. Tissue Engineering, 2007, 13, 843-853.	4.9	60
38	Development of a peptide-targeted, myocardial ischemia-homing, mesenchymal stem cell. Journal of Drug Targeting, 2012, 20, 23-32.	2.1	57
39	Serial Transplantation and Long-term Engraftment of Intra-arterially Delivered Clonally Derived Mesenchymal Stem Cells to Injured Bone Marrow. Molecular Therapy, 2014, 22, 160-168.	3.7	54
40	Scaffoldâ€free tissueâ€engineered cartilage implants for laryngotracheal reconstruction. Laryngoscope, 2010, 120, 612-617.	1.1	52
41	Vascular smooth muscle differentiation of murine stroma. Experimental Hematology, 1999, 27, 1782-1795.	0.2	51
42	A simple method for stem cell labeling with fluorine 18. Nuclear Medicine and Biology, 2005, 32, 701-705.	0.3	51
43	Dexamethasone inhibition of confluenceâ€induced apoptosis in human mesenchymal stem cells. Journal of Orthopaedic Research, 2009, 27, 216-221.	1.2	49
44	Developmental-Like Bone Regeneration by Human Embryonic Stem Cell-Derived Mesenchymal Cells. Tissue Engineering - Part A, 2014, 20, 365-377.	1.6	48
45	Hyaluronanâ€Based Scaffolds to Tissueâ€Engineer Cartilage Implants for Laryngotracheal Reconstruction. Laryngoscope, 2007, 117, 1745-1749.	1.1	46
46	The dynamics of compartmentalization of embryonic muscle by extracellular matrix molecules. Developmental Biology, 1991, 147, 46-61.	0.9	44
47	Transcriptional profiling of human mesenchymal stem cells transduced with reporter genes for imaging. Physiological Genomics, 2009, 37, 23-34.	1.0	42
48	Imaging Stem Cell Implant for Cellular-Based Therapies. Experimental Biology and Medicine, 2008, 233, 930-940.	1.1	40
49	Tissueâ€engineered trachea for airway reconstruction. Laryngoscope, 2009, 119, 2118-2123.	1.1	36
50	Methods for Producing Scaffold-Free Engineered Cartilage Sheets from Auricular and Articular Chondrocyte Cell Sources and Attachment to Porous Tantalum. BioResearch Open Access, 2012, 1, 157-165.	2.6	34
51	Mesenchymal stem cells: Progenitors, progeny, and pathways. Journal of Bone and Mineral Metabolism, 1996, 14, 193-201.	1.3	32
52	Monosodium Urate and Tumor Necrosis Factor-Î± Increase Apoptosis in Human Chondrocyte Cultures. Rheumatology (Sunnyvale, Calif), 2012, 02, 113.	0.3	32
53	Low Oxygen Tension During Incubation Periods of Chondrocyte Expansion Is Sufficient to Enhance Postexpansion Chondrogenesis. Tissue Engineering - Part A, 2010, 16, 1585-1593.	1.6	29
54	Thyroxine Increases Collagen Type II Expression and Accumulation in Scaffold-Free Tissue-Engineered Articular Cartilage. Tissue Engineering - Part A, 2018, 24, 369-381.	1.6	26

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55	Alterations in sarcomere structure, collagen organization, mitochondrial activity, and protein metabolism in the avian low score normal muscle weakness. Development Growth and Differentiation, 1997, 39, 563-570.	0.6	25
56	Synoviocyte Derived-Extracellular Matrix Enhances Human Articular Chondrocyte Proliferation and Maintains Re-Differentiation Capacity at Both Low and Atmospheric Oxygen Tensions. PLoS ONE, 2015, 10, e0129961.	1.1	25
57	Analysis of the Developmental Potential of Conditionally Immortal Marrow-Derived Mesenchymal Progenitor Cells Isolated from the H-2K^b-tsA58 Transgenic Mouse. Connective Tissue Research, 1996, 35, 93-99.	1.1	24
58	Polarized release of enveloped viruses in the embryonic chick heart: Demonstration of epithelial polarity in the presumptive myocardium. Developmental Biology, 1990, 141, 164-172.	0.9	23
59	Cobalt Protoporphyrin Pretreatment Protects Human Embryonic Stem Cell-Derived Cardiomyocytes From Hypoxia/Reoxygenation Injury In Vitro and Increases Graft Size and Vascularization In Vivo. Stem Cells Translational Medicine, 2014, 3, 734-744.	1.6	22
60	Tissue engineering of a composite trachea construct using autologous rabbit chondrocytes. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1383-e1391.	1.3	21
61	Disparate response of articular- and auricular-derived chondrocytes to oxygen tension. Connective Tissue Research, 2016, 57, 319-333.	1.1	20
62	Imaging early stage osteogenic differentiation of mesenchymal stem cells. Journal of Orthopaedic Research, 2013, 31, 871-879.	1.2	18
63	Scaffold-free cartilage subjected to frictional shear stress demonstrates damage by cracking and surface peeling. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 412-424.	1.3	18
64	Reduced bone loss in a murine model of postmenopausal osteoporosis lacking complement component 3. Journal of Orthopaedic Research, 2018, 36, 118-128.	1.2	18
65	Physioxia Stimulates Extracellular Matrix Deposition and Increases Mechanical Properties of Human Chondrocyte-Derived Tissue-Engineered Cartilage. Frontiers in Bioengineering and Biotechnology, 2020, 8, 590743.	2.0	18
66	High-Throughput, Temporal and Dose Dependent, Effect of Vitamins and Minerals on Chondrogenesis. Frontiers in Cell and Developmental Biology, 2020, 8, 92.	1.8	18
67	Transcriptome-Wide Analysis of Human Chondrocyte Expansion on Synoviocyte Matrix. Cells, 2019, 8, 85.	1.8	17
68	Sustained Wnt protein expression in chondral constructs from mesenchymal stem cells. Journal of Cellular Physiology, 2005, 203, 6-14.	2.0	15
69	Advances in mesenchymal stem cell biology. Current Opinion in Orthopaedics, 2004, 15, 341-346.	0.3	12
70	Investigating a continuous shear strain function for depth-dependent properties of native and tissue engineering cartilage using pixel-size data. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 62-70.	1.5	11
71	Endogenous PKIÎ³ Limits the Duration of the Anti-Apoptotic Effects of PTH and Î²-Adrenergic Agonists in Osteoblasts. Journal of Bone and Mineral Research, 2007, 22, 656-664.	3.1	10
72	Imaging Stem Cell Differentiation for Cell-Based Tissue Repair. Methods in Enzymology, 2012, 506, 247-263.	0.4	10

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73	Rapid Detection of Shear-Induced Damage in Tissue-Engineered Cartilage Using Ultrasound. Tissue Engineering - Part C: Methods, 2018, 24, 443-456.	1.1	10
74	Simple evaluation method for osteoinductive capacity of cells or scaffolds using ceramic cubes. Tissue and Cell, 2014, 46, 372-378.	1.0	8
75	Route of delivery influences biodistribution of human bone marrow-derived mesenchymal stromal cells following experimental bone marrow transplantation. Journal of Stem Cells and Regenerative Medicine, 2015, 11, 34-43.	2.2	6
76	Synoviocyte-Derived Extracellular Matrix and bFGF Speed Human Chondrocyte Proliferation While Maintaining Differentiation Potential. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	5
77	Coefficient of Friction Patterns Can Identify Damage in Native and Engineered Cartilage Subjected to Frictional-Shear Stress. Annals of Biomedical Engineering, 2015, 43, 2056-2068.	1.3	4
78	Differentiation potential of conditionally immortalized mesenchymal progenitor cells from adult marrow of a H-2Kb-tsA58 transgenic mouse. , 1996, 167, 523.		4
79	Dental Pulp Cells with Multi-Potential for Differentiation to Odontoblast and Chondroblast. Journal of Hard Tissue Biology, 2003, 12, 49-55.	0.2	4