John E Davies

List of Publications by Year
in descending order

89 papers	7,020 citations	70961 41 h-index	56606 83 g-index
94 all docs	94 docs citations	94 times ranked	8456 citing authors

#	Article	IF	Citations
1	Effects of Conditioned Medium from Bone Marrow Cells on Human Umbilical Cord Perivascular Cells. Tissue Engineering - Part A, 2021, 27, 382-389.	1.6	2
2	The influence of implant design on the kinetics of osseointegration and bone anchorage homeostasis. Acta Biomaterialia, 2021, 121, 514-526.	4.1	14
3	New insights into spatio-temporal dynamics of mesenchymal progenitor cell ingress during peri-implant wound healing: Provided by intravital imaging. Biomaterials, 2021, 273, 120837.	5.7	9
4	Engineered mesenchymal stromal cell therapy during human lung exÂvivo lung perfusion is compromised by acidic lung microenvironment. Molecular Therapy - Methods and Clinical Development, 2021, 23, 184-197.	1.8	13
5	Concise review: The challenges and opportunities of employing mesenchymal stromal cells in the treatment of acute pancreatitis. Biotechnology Advances, 2020, 42, 107338.	6.0	13
6	Relative contributions of implant hydrophilicity and nanotopography to implant anchorage in bone at Early Time Points. Clinical Oral Implants Research, 2020, 31, 49-63.	1.9	8
7	Hyperglycemia compromises Rat Cortical Bone by Increasing Osteocyte Lacunar Density and Decreasing Vascular Canal Volume. Communications Biology, 2020, 3, 20.	2.0	17
8	Mesenchymal stromal cells and their derivatives â€“ putative therapeutics in the management of autoimmune pancreatitis. FEBS Open Bio, 2020, 10, 969-978.	1.0	2
9	Stem Cells: Umbilical Cord/Whartonâ€™s Jelly Derived. , 2020, , 237-264.		0
10	Mesenchymal stromal cell therapy during ex vivo lung perfusion ameliorates ischemia-reperfusion injury in lung transplantation. Journal of Heart and Lung Transplantation, 2019, 38, 1214-1223.	0.3	56
11	Engineering Solutions for Cranio-Maxillo-Facial Rehabilitation and Oro-Dental Healthcare. Journal of Healthcare Engineering, 2019, 2019, 1-3.	1.1	1
12	A â€œbest fitâ€•approach for synergistic surface parameters to guide the design of candidate implant surfaces. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2165-2177.	1.6	3
13	Stem Cells: Umbilical Cord/Whartonâ€™s Jelly Derived. , 2019, , 1-28.		7
14	INVITED COMMENTARY: Is Osseointegration a Foreign Body Reaction?. International Journal of Prosthodontics, 2019, 32, 133-136.	0.7	2
15	Concise Review: Skeletal Muscle as a Delivery Route for Mesenchymal Stromal Cells. Stem Cells Translational Medicine, 2019, 8, 456-465.	1.6	20
16	Human Umbilical Cord Perivascular Cells and Human Bone Marrow Mesenchymal Stromal Cells Transplanted Intramuscularly Respond to a Distant Source of Inflammation. Stem Cells and Development, 2018, 27, 415-429.	1.1	18
17	Effect of Tumor Necrosis Factor Alpha Dose and Exposure Time on Tumor Necrosis Factor-Induced Gene-6 Activation by Neonatal and Adult Mesenchymal Stromal Cells. Stem Cells and Development, 2018, 27, 44-54.	1.1	13
18	Intravital Imaging for Tracking of Angiogenesis and Cellular Events Around Surgical Bone Implants. Tissue Engineering - Part C: Methods, 2018, 24, 617-627.	1.1	8

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19	Nanosurfaces modulate the mechanism of peri-implant endosseous healing by regulating neovascular morphogenesis. Communications Biology, 2018, 1, 72.	2.0	38
20	Biological Fixation: The Role of Screw Surface Design. , 2018, , 381-400.		0
21	Resveratrol Inhibits Periodontitisâ€Related Bone Loss in Rats Subjected to Cigarette Smoke Inhalation. Journal of Periodontology, 2017, 88, 788-798.	1.7	34
22	Concise Review: Wharton's Jelly: The Rich, but Enigmatic, Source of Mesenchymal Stromal Cells. Stem Cells Translational Medicine, 2017, 6, 1620-1630.	1.6	144
23	Exome sequence genotype imputation in globally diverse hexaploid wheat accessions. Theoretical and Applied Genetics, 2017, 130, 1393-1404.	1.8	25
24	Concise Review: Musculoskeletal Stem Cells to Treat Age-Related Osteoporosis. Stem Cells Translational Medicine, 2017, 6, 1930-1939.	1.6	49
25	Tau (Ï„): A New Parameter to Assess the Osseointegration Potential of an Implant Surface. International Journal of Oral and Maxillofacial Implants, 2017, 32, 102-112.	0.6	10
26	Mesenchymal stem cell treatment is associated with decreased perfusate concentration of interleukin-8 during ex vivo perfusion of donor lungs after 18-hour preservation. Journal of Heart and Lung Transplantation, 2016, 35, 1245-1254.	0.3	85
27	Early bone anchorage to micro- and nano-topographically complex implant surfaces in hyperglycemia. Acta Biomaterialia, 2016, 39, 169-179.	4.1	16
28	Engineered Mesenchymal Cells Improve Passive Immune Protection Against Lethal Venezuelan Equine Encephalitis Virus Exposure. Stem Cells Translational Medicine, 2016, 5, 1026-1035.	1.6	16
29	Bioengineering and Regenerative Medicine in Surgery. , 2016, , 189-203.		1
30	Systemic Mesenchymal Stromal Cell Transplantation Prevents Functional Bone Loss in a Mouse Model of Age-Related Osteoporosis. Stem Cells Translational Medicine, 2016, 5, 683-693.	1.6	67
31	Investigation of a Novel <scp>PLGA</scp>/<scp>CaP</scp> Scaffold in the Healing of Tooth Extraction Sockets to Alveolar Bone Preservation in Humans. Clinical Implant Dentistry and Related Research, 2016, 18, 559-570.	1.6	15
32	Bone formation by human umbilical cord perivascular cells. Journal of Biomedical Materials Research - Part A, 2015, 103, 2807-2814.	2.1	18
33	Expression of Î±-Smooth Muscle Actin Determines the Fate of Mesenchymal Stromal Cells. Stem Cell Reports, 2015, 4, 1016-1030.	2.3	162
34	Evaluation of a bipolar-cooled radiofrequency device for ablation of bone metastases: preclinical assessment in porcine vertebrae. Spine Journal, 2014, 14, 361-370.	0.6	26
35	Topographic scale-range synergy at the functional bone/implant interface. Biomaterials, 2014, 35, 25-35.	5.7	62
36	An Improved Mechanical Testing Method to Assess Bone-implant Anchorage. Journal of Visualized Experiments, 2014, , e51221.	0.2	5

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37	Brief Report: The Potential Role of Epigenetics on Multipotent Cell Differentiation Capacity of Mesenchymal Stromal Cells. Stem Cells, 2013, 31, 215-220.	1.4	39
38	The roles of different scale ranges of surface implant topography on the stability of the bone/implant interface. Biomaterials, 2013, 34, 3535-3546.	5.7	101
39	Ultrastructure of Cement Lines. Journal of Hard Tissue Biology, 2013, 22, 445-450.	0.2	5
40	Effects of two mesenchymal cell populations on hepatocytes and lymphocytes. Liver Transplantation, 2012, 18, 1384-1394.	1.3	11
41	A Bioinformatics Approach to the Structure, Function, and Evolution of the Nucleoprotein of the Order Mononegavirales. PLoS ONE, 2011, 6, e19275.	1.1	11
42	Periodontal regeneration using a bilayered PLGA/calcium phosphate construct. Biomaterials, 2011, 32, 9244-9253.	5.7	99
43	Mesenchymal stromal cells mediate a switch to alternatively activated monocytes/macrophages after acute myocardial infarction. Basic Research in Cardiology, 2011, 106, 1299-1310.	2.5	221
44	Effect of lowâ€magnitude, highâ€frequency vibration on osteogenic differentiation of rat mesenchymal stromal cells. Journal of Orthopaedic Research, 2011, 29, 1075-1080.	1.2	49
45	A new bone vascular perfusion compound for the simultaneous analysis of bone and vasculature. Microscopy Research and Technique, 2010, 73, 665-672.	1.2	11
46	Dissolution behavior of calcium phosphate nanocrystals deposited on titanium alloy surfaces. Journal of Biomedical Materials Research - Part A, 2010, 94A, 660-666.	2.1	5
47	Human umbilical cord perivascular cells (HUCPVC). Organogenesis, 2010, 6, 197-203.	0.4	82
48	Development, characterization and clinical use of a biodegradable composite scaffold for bone engineering in oro-maxillo-facial surgery. Organogenesis, 2010, 6, 161-166.	0.4	53
49	Human Mesenchymal Stem Cells Self-Renew and Differentiate According to a Deterministic Hierarchy. PLoS ONE, 2009, 4, e6498.	1.1	202
50	Discrete calcium phosphate nanocrystalline deposition enhances osteoconduction on titaniumâ€based implant surfaces. Journal of Biomedical Materials Research - Part A, 2009, 90A, 577-585.	2.1	97
51	A biodegradable scaffold for the treatment of a diaphyseal bone defect of the tibia. Journal of Orthopaedic Research, 2009, 28, n/a-n/a.	1.2	14
52	Mesenchymal Stromal Cells as Supportive Cells for Hepatocytes. Molecular Therapy, 2009, 17, 1504-1508.	3.7	27
53	Isolation, Propagation, and Characterization of Human Umbilical Cord Perivascular Cells (HUCPVCs). Methods in Molecular Biology, 2009, 482, 269-279.	0.4	69
54	Cyclic stretch-induced TGFÎ²1/Smad signaling inhibits adipogenesis in umbilical cord progenitor cells. Biochemical and Biophysical Research Communications, 2008, 377, 1147-1151.	1.0	44

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55	Culture of Mesenchymal Stem/Progenitor Cells in Adhesionâ€Independent Conditions. Methods in Cell Biology, 2008, 86, 279-293.	0.5	3
56	Isolation, Characterization, and Differentiation of Human Umbilical Cord Perivascular Cells (HUCPVCs). Methods in Cell Biology, 2008, 86, 121-136.	0.5	30
57	A non-contact suspension culture approach to the culture of osteogenic cells derived from a CD49elow subpopulation of human bone marrow-derived cells. Biotechnology and Bioengineering, 2007, 98, 1195-1208.	1.7	37
58	The effect of discrete calcium phosphate nanocrystals on bone-bonding to titanium surfaces. Biomaterials, 2007, 28, 4748-4755.	5.7	189
59	Bone bonding at natural and biomaterial surfaces. Biomaterials, 2007, 28, 5058-5067.	5.7	260
60	Platelet releasate increases the proliferation and migration of bone marrow-derived cells cultured under osteogenic conditions. Clinical Oral Implants Research, 2006, 17, 321-327.	1.9	53
61	A comparison of marker-assisted and phenotypic selection for high grain protein content in spring wheat. Euphytica, 2006, 152, 117-134.	0.6	40
62	Soluble factor cross-talk between human bone marrow-derived hematopoietic and mesenchymal cells enhances in vitro CFU-F and CFU-O growth and reveals heterogeneity in the mesenchymal progenitor cell compartment. Blood, 2005, 106, 3012-3019.	0.6	59
63	Human Umbilical Cord Perivascular (HUCPV) Cells: A Source of Mesenchymal Progenitors. Stem Cells, 2005, 23, 220-229.	1.4	751
64	Platelet interactions with calcium-phosphate-coated surfaces. Biomaterials, 2005, 26, 5285-5295.	5.7	91
65	Thrombin mediated migration of osteogenic cells. Bone, 2005, 37, 337-348.	1.4	43
66	Fibrin-filled scaffolds for bone-tissue engineering: Anin vivo study. Journal of Biomedical Materials Research Part B, 2004, 71A, 162-171.	3.0	97
67	Preparation and characterization of a highly macroporous biodegradable composite tissue engineering scaffold. Journal of Biomedical Materials Research Part B, 2004, 71A, 480-487.	3.0	126
68	Bone marrow genesis after subcutaneous delivery of rat osteogenic cell-seeded biodegradable scaffolds into nude mice. Journal of Biomedical Materials Research Part B, 2004, 71A, 602-607.	3.0	15
69	Adult human bone marrowâ€“derived mesenchymal progenitor cells are capable of adhesion-independent survival and expansion. Experimental Hematology, 2003, 31, 723-732.	0.2	118
70	Bone formation on two-dimensional poly(DL-lactide-co-glycolide) (PLGA) films and three-dimensional PLGA tissue engineering scaffoldsin vitro. Journal of Biomedical Materials Research Part B, 2003, 64A, 388-396.	3.0	152
71	Effect of Platelet Releasate on Bone Cell Migration and Recruitment In Vitro. Journal of Craniofacial Surgery, 2003, 14, 292-300.	0.3	102
72	In Vivo Bone Engineering in a Rabbit Femur. Journal of Craniofacial Surgery, 2003, 14, 324-332.	0.3	50

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73	Fabrication of Precise Cylindrical Three-Dimensional Tissue Engineering Scaffolds for In Vitro and In Vivo Bone Engineering Applications. Journal of Craniofacial Surgery, 2003, 14, 317-323.	0.3	33
74	Understanding Periâ€Implant Endosseous Healing. Journal of Dental Education, 2003, 67, 932-949.	0.7	773
75	Evaluation of Spring Wheat Quality Traits and Genotypes for Production of Cantonese Asian Noodles. Crop Science, 2003, 43, 1313-1319.	0.8	20
76	Understanding peri-implant endosseous healing. Journal of Dental Education, 2003, 67, 932-49.	0.7	293
77	Platelet interactions with titanium: modulation of platelet activity by surface topography. Biomaterials, 2001, 22, 2671-2682.	5.7	274
78	Early endosseous integration enhanced by dual acid etching of titanium: a torque removal study in the rabbit. Clinical Oral Implants Research, 2001, 12, 350-357.	1.9	188
79	Engineering three-dimensional bone tissuein vitro using biodegradable scaffolds: Investigating initial cell-seeding density and culture period. Journal of Biomedical Materials Research Part B, 2000, 51, 376-382.	3.0	397
80	Red blood cell and platelet interactions with titanium implant surfaces. Clinical Oral Implants Research, 2000, 11, 530-539.	1.9	219
81	Brown tumor of the maxilla in a patient with secondary hyperparathyroidism: A case study involving immunohistochemistry and electron microscopy. Journal of Oral and Maxillofacial Surgery, 2000, 58, 233-238.	0.5	27
82	In vitro degradation of a novel poly(lactide-co-glycolide) 75/25 foam. Biomaterials, 1999, 20, 1177-1185.	5.7	211
83	Malignant ameloblastoma: A case study and review. Journal of Oral and Maxillofacial Surgery, 1999, 57, 725-730.	0.5	5
84	Three-dimensional matrices of calcium polyphosphates support bone growth in vitro and in vivo. Journal of Materials Science: Materials in Medicine, 1998, 9, 743-748.	1.7	63
85	Bone mimetics: a composite of hydroxyapatite and calcium dodecylphosphate lamellar phase. Journal of Materials Chemistry, 1997, 7, 1601-1607.	6.7	52
86	Deposition of cement at reversal lines in rat femoral bone. Journal of Bone and Mineral Research, 1994, 9, 367-374.	3.1	45
87	Preliminary report on cell culture on a thermally reversible copolymer. Biomaterials, 1993, 14, 153-155.	5.7	49
88	Receptor expression and oxidase activity in human neutrophils: Regulation by granulocyte-macrophage colony-stimulating factor and dependence upon protein biosynthesis. Bioscience Reports, 1990, 10, 393-401.	1.1	33
89	THE INFLUENCE Of NITROGEN ON THE YIELD OF A COCKSFOOT SEED CROP. Grass and Forage Science, 1953, 8, 261-266.	1.2	3