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	Understanding Periâ€Implant Endosseous Healing. Journal of Dental Education, 2003, 67, 932-949.	0.7	773
2	Human Umbilical Cord Perivascular (HUCPV) Cells: A Source of Mesenchymal Progenitors. Stem Cells, 2005, 23, 220-229.	1.4	751
3	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
4	Understanding peri-implant endosseous healing. Journal of Dental Education, 2003, 67, 932-49.	0.7	293
5	Platelet interactions with titanium: modulation of platelet activity by surface topography. Biomaterials, 2001, 22, 2671-2682.	5.7	274
6	Bone bonding at natural and biomaterial surfaces. Biomaterials, 2007, 28, 5058-5067.	5.7	260
7	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
8	Red blood cell and platelet interactions with titanium implant surfaces. Clinical Oral Implants Research, 2000, 11, 530-539.	1.9	219
9	In vitro degradation of a novel poly(lactide-co-glycolide) 75/25 foam. Biomaterials, 1999, 20, 1177-1185.	5.7	211
10	Human Mesenchymal Stem Cells Self-Renew and Differentiate According to a Deterministic Hierarchy. PLoS ONE, 2009, 4, e6498.	1.1	202
11	The effect of discrete calcium phosphate nanocrystals on bone-bonding to titanium surfaces. Biomaterials, 2007, 28, 4748-4755.	5.7	189
12	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
13	Expression of Î±-Smooth Muscle Actin Determines the Fate of Mesenchymal Stromal Cells. Stem Cell Reports, 2015, 4, 1016-1030.	2.3	162
14	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
15	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
16	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
17	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
18	Effect of Platelet Releasate on Bone Cell Migration and Recruitment In Vitro. Journal of Craniofacial Surgery, 2003, 14, 292-300.	0.3	102

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19	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
20	Periodontal regeneration using a bilayered PLGA/calcium phosphate construct. Biomaterials, 2011, 32, 9244-9253.	5.7	99
21	Fibrin-filled scaffolds for bone-tissue engineering: Anin vivo study. Journal of Biomedical Materials Research Part B, 2004, 71A, 162-171.	3.0	97
22	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
23	Platelet interactions with calcium-phosphate-coated surfaces. Biomaterials, 2005, 26, 5285-5295.	5.7	91
24	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
25	Human umbilical cord perivascular cells (HUCPVC). Organogenesis, 2010, 6, 197-203.	0.4	82
26	Isolation, Propagation, and Characterization of Human Umbilical Cord Perivascular Cells (HUCPVCs). Methods in Molecular Biology, 2009, 482, 269-279.	0.4	69
27	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
28	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
29	Topographic scale-range synergy at the functional bone/implant interface. Biomaterials, 2014, 35, 25-35.	5.7	62
30	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
31	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
32	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
33	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
34	Bone mimetics: a composite of hydroxyapatite and calcium dodecylphosphate lamellar phase. Journal of Materials Chemistry, 1997, 7, 1601-1607.	6.7	52
35	In Vivo Bone Engineering in a Rabbit Femur. Journal of Craniofacial Surgery, 2003, 14, 324-332.	0.3	50
36	Preliminary report on cell culture on a thermally reversible copolymer. Biomaterials, 1993, 14, 153-155.	5.7	49

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37	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
38	Concise Review: Musculoskeletal Stem Cells to Treat Age-Related Osteoporosis. Stem Cells Translational Medicine, 2017, 6, 1930-1939.	1.6	49
39	Deposition of cement at reversal lines in rat femoral bone. Journal of Bone and Mineral Research, 1994, 9, 367-374.	3.1	45
40	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
41	Thrombin mediated migration of osteogenic cells. Bone, 2005, 37, 337-348.	1.4	43
42	A comparison of marker-assisted and phenotypic selection for high grain protein content in spring wheat. Euphytica, 2006, 152, 117-134.	0.6	40
43	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
44	Nanosurfaces modulate the mechanism of peri-implant endosseous healing by regulating neovascular morphogenesis. Communications Biology, 2018, 1, 72.	2.0	38
45	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
46	Resveratrol Inhibits Periodontitisâ€Related Bone Loss in Rats Subjected to Cigarette Smoke Inhalation. Journal of Periodontology, 2017, 88, 788-798.	1.7	34
47	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
48	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
49	Isolation, Characterization, and Differentiation of Human Umbilical Cord Perivascular Cells (HUCPVCs). Methods in Cell Biology, 2008, 86, 121-136.	0.5	30
50	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
51	Mesenchymal Stromal Cells as Supportive Cells for Hepatocytes. Molecular Therapy, 2009, 17, 1504-1508.	3.7	27
52	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
53	Exome sequence genotype imputation in globally diverse hexaploid wheat accessions. Theoretical and Applied Genetics, 2017, 130, 1393-1404.	1.8	25
54	Evaluation of Spring Wheat Quality Traits and Genotypes for Production of Cantonese Asian Noodles. Crop Science, 2003, 43, 1313-1319.	0.8	20

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55	Concise Review: Skeletal Muscle as a Delivery Route for Mesenchymal Stromal Cells. Stem Cells Translational Medicine, 2019, 8, 456-465.	1.6	20
56	Bone formation by human umbilical cord perivascular cells. Journal of Biomedical Materials Research - Part A, 2015, 103, 2807-2814.	2.1	18
57	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
58	Hyperglycemia compromises Rat Cortical Bone by Increasing Osteocyte Lacunar Density and Decreasing Vascular Canal Volume. Communications Biology, 2020, 3, 20.	2.0	17
59	Early bone anchorage to micro- and nano-topographically complex implant surfaces in hyperglycemia. Acta Biomaterialia, 2016, 39, 169-179.	4.1	16
60	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
61	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
62	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
63	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
64	The influence of implant design on the kinetics of osseointegration and bone anchorage homeostasis. Acta Biomaterialia, 2021, 121, 514-526.	4.1	14
65	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
66	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
67	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
68	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
69	A Bioinformatics Approach to the Structure, Function, and Evolution of the Nucleoprotein of the Order Mononegavirales. PLoS ONE, 2011, 6, e19275.	1.1	11
70	Effects of two mesenchymal cell populations on hepatocytes and lymphocytes. Liver Transplantation, 2012, 18, 1384-1394.	1.3	11
71	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
72	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

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73	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
74	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
75	Stem Cells: Umbilical Cord/Whartonâ€™s Jelly Derived. , 2019, , 1-28.		7
76	Malignant ameloblastoma: A case study and review. Journal of Oral and Maxillofacial Surgery, 1999, 57, 725-730.	0.5	5
77	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
78	Ultrastructure of Cement Lines. Journal of Hard Tissue Biology, 2013, 22, 445-450.	0.2	5
79	An Improved Mechanical Testing Method to Assess Bone-implant Anchorage. Journal of Visualized Experiments, 2014, , e51221.	0.2	5
80	THE INFLUENCE Of NITROGEN ON THE YIELD OF A COCKSFOOT SEED CROP. Grass and Forage Science, 1953, 8, 261-266.	1.2	3
81	Culture of Mesenchymal Stem/Progenitor Cells in Adhesionâ€Independent Conditions. Methods in Cell Biology, 2008, 86, 279-293.	0.5	3
82	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
83	INVITED COMMENTARY: Is Osseointegration a Foreign Body Reaction?. International Journal of Prosthodontics, 2019, 32, 133-136.	0.7	2
84	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
85	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
86	Bioengineering and Regenerative Medicine in Surgery. , 2016, , 189-203.		1
87	Engineering Solutions for Cranio-Maxillo-Facial Rehabilitation and Oro-Dental Healthcare. Journal of Healthcare Engineering, 2019, 2019, 1-3.	1.1	1
88	Biological Fixation: The Role of Screw Surface Design. , 2018, , 381-400.		0
89	Stem Cells: Umbilical Cord/Whartonâ€™s Jelly Derived. , 2020, , 237-264.		0