Dale R Sumner

List of Publications by Year
in descending order

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Version: 2024-02-01

117 papers	4,418 citations	81434 41 h-index	134545 62 g-index
118 all docs	118 docs citations	118 times ranked	5157 citing authors

#	Article	IF	Citations
1	The relative contribution of bone microarchitecture and matrix composition to implant fixation strength in rats. Journal of Orthopaedic Research, 2022, 40, 862-870.	1.2	2
2	Alcohol and Circadian Disruption Minimally Impact Bone Properties in Two Cohorts of Male Mice While Betweenâ€Cohort Differences Predominate: Association With Season of Birth?. JBMR Plus, 2022, 6, e10591.	1.3	0
3	Racism, structural racism, and the American Association for Anatomy: Initial report from a task force. Anatomical Record, 2022, 305, 772-787.	0.8	8
4	Comparison of Bone Turnover Biomarkers in Serum and Urine Measured on an Automated Analytical Platform. journal of applied laboratory medicine, The, 2021, 6, 750-755.	0.6	0
5	How faithfully does intramembranous bone regeneration recapitulate embryonic skeletal development?. Developmental Dynamics, 2021, 250, 377-392.	0.8	27
6	In-vitro trabecular bone damage following mono- and bicortical mini implants anchorage in mini-implant assisted rapid palatal expansion (MARPE). International Orthodontics, 2021, 19, 243-251.	0.6	3
7	The risk of revision following total hip arthroplasty in patients with inflammatory bowel disease, a registry based study. PLoS ONE, 2021, 16, e0257310.	1.1	7
8	Activation of canonical Wnt signaling accelerates intramembranous bone regeneration in male mice. Journal of Orthopaedic Research, 2021, , .	1.2	1
9	Early changes in serum osteocalcin and body weight are predictive of implant fixation in a rat model of implant loosening. Journal of Orthopaedic Research, 2020, 38, 1216-1227.	1.2	2
10	Implant surface alters compartmentalâ€specific contributions to fixation strength in rats. Journal of Orthopaedic Research, 2020, 38, 1208-1215.	1.2	4
11	CHIP regulates skeletal development and postnatal bone growth. Journal of Cellular Physiology, 2020, 235, 5378-5385.	2.0	6
12	The gut microbiota may be a novel pathogenic mechanism in loosening of orthopedic implants in rats. FASEB Journal, 2020, 34, 14302-14317.	0.2	6
13	Biomechanics of Implant Fixation in Osteoporotic Bone. Current Osteoporosis Reports, 2020, 18, 577-586.	1.5	11
14	Osteoporosis Treatments Affect Bone Matrix Maturation in a Rat Model of Induced Cortical Remodeling. JBMR Plus, 2020, 4, e10344.	1.3	3
15	Bone Biology of Implant Failure. , 2020, , 136-145.		1
16	Wnt signaling in bone, kidney, intestine, and adipose tissue and interorgan interaction in aging. Annals of the New York Academy of Sciences, 2019, 1442, 48-60.	1.8	49
17	Calcium restriction during lactation has minimal effects on post-weaning mineral metabolism and bone recovery. Journal of Bone and Mineral Metabolism, 2019, 37, 648-657.	1.3	5
18	Optimizing a microâ€computed tomographyâ€based surrogate measurement of boneâ€implant contact. Journal of Orthopaedic Research, 2018, 36, 979-986.	1.2	11

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19	Circulating Dkk1 and TRAIL Are Associated With Cognitive Decline in Community-Dwelling, Older Adults With Cognitive Concerns. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 1688-1694.	1.7	23
20	Discovery of biomarkers to identify periâ€implant osteolysis before radiographic diagnosis. Journal of Orthopaedic Research, 2018, 36, 2754-2761.	1.2	13
21	A Novel Model to Assess the Effects of Osteoporosis Medications on Bone Quality. FASEB Journal, 2018, 32, 365.1.	0.2	0
22	Murine articular cartilage morphology and compositional quantification with high resolution cationic contrastâ€enhanced Ì¼CT. Journal of Orthopaedic Research, 2017, 35, 2740-2748.	1.2	17
23	Arthrotomyâ€based preclinical models of particleâ€induced osteolysis: A systematic review. Journal of Orthopaedic Research, 2017, 35, 2595-2605.	1.2	16
24	Bone Matrix Maturation in a Rat Model of Intra-Cortical Bone Remodeling. Calcified Tissue International, 2017, 101, 193-203.	1.5	13
25	Validation of cortical bone mineral density distribution using micro-computed tomography. Bone, 2017, 99, 53-61.	1.4	30
26	HBM Mice Have Altered Bone Matrix Composition and Improved Material Toughness. Calcified Tissue International, 2016, 99, 384-395.	1.5	5
27	Bone Matrix Composition Following PTH Treatment is Not Dependent on Sclerostin Status. Calcified Tissue International, 2016, 98, 149-157.	1.5	8
28	Intramembranous bone regeneration differs among common inbred mouse strains following marrow ablation. Journal of Orthopaedic Research, 2015, 33, 1374-1381.	1.2	9
29	Long-term implant fixation and stress-shielding in total hip replacement. Journal of Biomechanics, 2015, 48, 797-800.	0.9	218
30	Sclerostin Antibody Treatment Improves Implant Fixation in a Model of Severe Osteoporosis. Journal of Bone and Joint Surgery - Series A, 2015, 97, 133-140.	1.4	51
31	Assessment of glenoid chondral healing: comparison of microfracture to autologous matrix-induced chondrogenesis in a novel rabbit shoulder model. Journal of Shoulder and Elbow Surgery, 2015, 24, 1789-1800.	1.2	11
32	Incorporation of copper into chitosan scaffolds promotes bone regeneration in rat calvarial defects. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1044-1049.	1.6	56
33	Cytotoxic effects of cobalt and nickel ions on osteocytes in vitro. Journal of Orthopaedic Surgery and Research, 2014, 9, 91.	0.9	36
34	Bone Matrix Quality After Sclerostin Antibody Treatment. Journal of Bone and Mineral Research, 2014, 29, 1597-1607.	3.1	38
35	Particleâ€induced osteolysis is not accompanied by systemic remodeling but is reflected by systemic bone biomarkers. Journal of Orthopaedic Research, 2014, 32, 967-973.	1.2	20
36	Combined Use of Low-Intensity Pulsed Ultrasound and rhBMP-2 to Enhance Bone Formation in a Rat Model of Critical Size Defect. Journal of Orthopaedic Trauma, 2014, 28, 605-611.	0.7	19

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37	Pharmacologic Augmentation of Implant Fixation in Osteopenic Bone. Current Osteoporosis Reports, 2014, 12, 55-64.	1.5	18
38	The enhancement of bone regeneration by gene activated matrix encoding for platelet derived growth factor. Biomaterials, 2014, 35, 737-747.	5.7	123
39	Dopamine Receptors and the Persistent Neurovascular Dysregulation Induced by Methamphetamine Self-Administration in Rats. Journal of Pharmacology and Experimental Therapeutics, 2014, 351, 432-439.	1.3	14
40	Are There Biological Markers for Wear or Corrosion? A Systematic Review. Clinical Orthopaedics and Related Research, 2014, 472, 3728-3739.	0.7	25
41	Biological control of peri-implant bone remodeling and implant loosening (Sun Valley 2012). IBMS BoneKEy, 2013, 10, .	0.1	0
42	Implant placement increases bone remodeling transiently in a rat model. Journal of Orthopaedic Research, 2013, 31, 800-806.	1.2	16
43	Sclerostin Antibody Increases Bone Volume and Enhances Implant Fixation in a Rat Model. Journal of Bone and Joint Surgery - Series A, 2012, 94, 1670-1680.	1.4	53
44	Modulation of Stromal Cell-Derived Factor-1/CXC Chemokine Receptor 4 Axis Enhances rhBMP-2-Induced Ectopic Bone Formation. Tissue Engineering - Part A, 2012, 18, 860-869.	1.6	26
45	Effects ofTGF-Î²1andVEGF-Atransgenes on the osteogenic potential of bone marrow stromal cells in vitro and in vivo. Journal of Tissue Engineering, 2012, 3, 204173141245974.	2.3	15
46	Sclerostin antibody prevents particleâ€induced implant loosening by stimulating bone formation and inhibiting bone resorption in a rat model. Arthritis and Rheumatism, 2012, 64, 4012-4020.	6.7	53
47	Adult Stem Cell Mobilization Enhances Intramembranous Bone Regeneration: A Pilot Study. Clinical Orthopaedics and Related Research, 2012, 470, 2503-2512.	0.7	14
48	Overexpression of DMP1 accelerates mineralization and alters cortical bone biomechanical properties in vivo. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 5, 1-8.	1.5	28
49	Bone turnover markers correlate with implant fixation in a rat model using LPSâ€doped particles to induced implant loosening. Journal of Biomedical Materials Research - Part A, 2012, 100A, 918-928.	2.1	25
50	Calcineurin/nuclear factor of activated T cells (NFAT) signaling in cobaltâ€“chromiumâ€“molybdenum (CoCrMo) particlesâ€induced tumor necrosis factorâ€± (TNFÎ±) secretion in MLOâ€Y4 osteocytes. Journal of Orthopaedic Research, 2011, 29, 1867-1873.	1.2	7
51	Low-intensity pulsed ultrasound (LIPUS) and cell-to-cell communication in bone marrow stromal cells. Ultrasonics, 2011, 51, 639-644.	2.1	43
52	Effect of recombinant human transforming growth factorâ€Î²2 dose on bone formation in rat femur titanium implant model. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1210-1217.	2.1	10
53	Alteration of sensory neurons and spinal response to an experimental osteoarthritis pain model. Arthritis and Rheumatism, 2010, 62, 2995-3005.	6.7	149
54	Temporal Gene Expression Profiling during Rat Femoral Marrow Ablation-Induced Intramembranous Bone Regeneration. PLoS ONE, 2010, 5, e12987.	1.1	45

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55	Ultrasound Enhances Recombinant Human BMP-2 Induced Ectopic Bone Formation in a Rat Model. Ultrasound in Medicine and Biology, 2009, 35, 1629-1637.	0.7	20
56	Coâ€“Crâ€“Mo alloy particles induce tumor necrosis factor alpha production in MLO-Y4 osteocytes: A role for osteocytes in particle-induced inflammation. Bone, 2009, 45, 528-533.	1.4	67
57	Autologous stem cell regeneration in craniosynostosis. Bone, 2008, 42, 332-340.	1.4	28
58	Porous implants as drug delivery vehicles to augment host tissue integration. FASEB Journal, 2008, 22, 1684-1693.	0.2	23
59	Effects of Age on the Development of Arthropathy in Mice with Hemophilia.. Blood, 2008, 112, 3393-3393.	0.6	0
60	Modulation of VEGF Expression in Rat Bone Marrow Stromal Cells by GDF-5. Connective Tissue Research, 2007, 48, 324-331.	1.1	17
61	Relationship between pain and medial knee joint loading in mild radiographic knee osteoarthritis. Arthritis and Rheumatism, 2007, 57, 1254-1260.	6.7	174
62	Peri-implant bone formation and implant integration strength of peptide-modified p(AAM-co-EG/AAC) interpenetrating polymer network-coated titanium implants. Journal of Biomedical Materials Research - Part A, 2007, 80A, 306-320.	2.1	46
63	The effect of enzymatically degradable IPN coatings on peri-implant bone formation and implant fixation. Journal of Biomedical Materials Research - Part A, 2007, 81A, 720-727.	2.1	22
64	Letter to the Editor Regarding â€œBone mineral density of the proximal femur is not related to dynamic joint loading during locomotion in young women.â€•by Bareither et al.. Bone, 2006, 38, 954-955.	1.4	1
65	Bone mineral density in the proximal tibia varies as a function of static alignment and knee adduction angular momentum in individuals with medial knee osteoarthritis. Bone, 2006, 39, 1116-1122.	1.4	87
66	Micro-Computed Tomography Evaluation of the Glenoid Fossa and Mandibular Condyle Bone After Bilateral Vertical Ramus Mandibular Distraction in a Canine Model. Journal of Craniofacial Surgery, 2006, 17, 611-619.	0.3	8
67	Micro-Computed Tomography Evaluation of the Glenoid Fossa and Mandibular Condyle Bone After Bilateral Vertical Ramus Mandibular Distraction in a Canine Model. Journal of Craniofacial Surgery, 2006, 17, 111-119.	0.3	7
68	Biomimetic artificial ECMs stimulate bone regeneration. Journal of Biomedical Materials Research - Part A, 2006, 79A, 815-826.	2.1	63
69	Additive Enhancement of Implant Fixation Following Combined Treatment with rhTGF-Â2 and rhBMP-2 in a Canine Model. Journal of Bone and Joint Surgery - Series A, 2006, 88, 806-817.	1.4	53
70	Microstructural and Strength Evaluation of Regenerate Tissue during the Consolidation Period after Vertical Mandibular Ramus Distraction. Journal of Craniofacial Surgery, 2005, 16, 805-811.	0.3	12
71	Early gene response to low-intensity pulsed ultrasound in rat osteoblastic cells. Ultrasound in Medicine and Biology, 2005, 31, 703-708.	0.7	121
72	Saline irrigation does not affect bone formation or fixation strength of hydroxyapatite/tricalcium phosphate-coated implants in a rat model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 74B, 712-717.	1.6	21

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73	Patterns and Localization of Gene Expression During Intramembranous Bone Regeneration in the Rat Femoral Marrow Ablation Model. Calcified Tissue International, 2005, 77, 212-225.	1.5	47
74	Effect of Hip Hemiarthroplasty on Articular Cartilage and Bone in a Canine Model. Clinical Orthopaedics and Related Research, 2005, &NA;, 157-163.	0.7	15
75	Modulation of bone ingrowth of rabbit femur titanium implants by in vivo axial micromechanical loading. Journal of Applied Physiology, 2005, 98, 1922-1929.	1.2	27
76	Local application of rhTGF-Î²2 modulates dynamic gene expression in a rat implant model. Bone, 2005, 36, 931-940.	1.4	15
77	Local application of rhTGF-Î²2 enhances peri-implant bone volume and bone-implant contact in a rat model. Bone, 2005, 37, 55-62.	1.4	51
78	Locally delivered rhBMP-2 enhances bone ingrowth and gap healing in a canine model. Journal of Orthopaedic Research, 2004, 22, 58-65.	1.2	90
79	MRI heterogeneity of articular cartilage in strong magnetic fields: Dependence on proteoglycan content. Concepts in Magnetic Resonance, 2004, 23B, 33-43.	1.3	2
80	A low-temperature biomimetic calcium phosphate surface enhances early implant fixation in a rat model. Journal of Biomedical Materials Research Part B, 2004, 70A, 66-73.	3.0	51
81	Patterns of gene expression in rat bone marrow stromal cells cultured on titanium alloy discs of different roughness. Journal of Biomedical Materials Research Part B, 2004, 70A, 391-401.	3.0	27
82	Dynamic loads are determinants of peak bone mass. Journal of Orthopaedic Research, 2004, 22, 339-345.	1.2	30
83	Refraction Effects of Diffraction-Enhanced Radiographic Imaging. Journal of the American Podiatric Medical Association, 2004, 94, 453-455.	0.2	11
84	Aging Does Not Lessen the Effectiveness of TGFÎ²2-Enhanced Bone Regeneration. Journal of Bone and Mineral Research, 2003, 18, 730-736.	3.1	26
85	The use of intra-articular Na-hyaluronate as a potential chondroprotective device in experimentally induced acute articular cartilage injury and repair in rabbits. Journal of Orthopaedic Research, 2003, 21, 305-311.	1.2	26
86	Spontaneous and experimental osteoarthritis in dog: Similarities and differences in proteoglycan levels. Journal of Orthopaedic Research, 2003, 21, 730-737.	1.2	58
87	Normalization of joint moments during gait: a comparison of two techniques. Journal of Biomechanics, 2003, 36, 599-603.	0.9	228
88	The efficacy of 500 centigray radiation in the prevention of heterotopic ossification after total hip arthroplasty: a prospective, randomized, pilot study. Journal of Arthroplasty, 2003, 18, 677-686.	1.5	55
89	Subchondral Thickness Does Not Vary with Cartilage Degeneration on the Metatarsal. Journal of the American Podiatric Medical Association, 2003, 93, 104-110.	0.2	8
90	Implant Design Affects Markers of Bone Resorption and Formation in Total Hip Replacement. Journal of Bone and Mineral Research, 2002, 17, 800-807.	3.1	14

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91	Bone graft harvesting from the distal radius, olecranon, and iliac crest: A quantitative analysis. Journal of Hand Surgery, 2001, 26, 135-141.	0.7	57
92	Accuracy and precision of radiostereometric analysis in the measurement of THR femoral component translations: human and canine in vitro models. Journal of Orthopaedic Research, 2001, 19, 1162-1167.	1.2	55
93	Bone Density, Dynamic Joint Loading and Joint Degeneration. Cells Tissues Organs, 2001, 169, 201-209.	1.3	47
94	Sensitivity of periprosthetic stress-shielding to load and the bone densityâ€“modulus relationship in subject-specific finite element models. Journal of Biomechanics, 2000, 33, 809-817.	0.9	109
95	Implant Pushout and Pullout Tests. , 1999, , 463-476.		6
96	Dynamic knee loads during gait predict proximal tibial bone distribution. Journal of Biomechanics, 1998, 31, 423-430.	0.9	262
97	Hip motion and moments during gait relate directly to proximal femoral bone mineral density in patients with hip osteoarthritis. Journal of Biomechanics, 1998, 31, 919-925.	0.9	52
98	Relationship between articular cartilage damage and bone density in the first metatarsal. Journal of Foot and Ankle Surgery, 1998, 37, 401-409.	0.5	4
99	Dimensional characteristics of uncomplicated autopsy-retrieved acetabular polyethylene liners by ultrasound. , 1998, 39, 120-129.		12
100	Use of Bone Morphogenetic Protein 2 on Ectopic Porous Coated Implants in the Rat. Clinical Orthopaedics and Related Research, 1997, 345, 219???228.	0.7	42
101	Impacted particulate allograft for femoral revision total hip arthroplasty. Journal of Arthroplasty, 1996, 11, 500-506.	1.5	33
102	PARTICULATE-INDUCED, PROSTAGLANDIN- AND CYTOKINE-MEDIATED BONE RESORPTION IN AN EXPERIMENTAL SYSTEM AND IN FAILED JOINT REPLACEMENTS. American Journal of Therapeutics, 1996, 3, 27-41.	0.5	49
103	Unilateral hip replacement causes bilateral changes in tibial bone mineral content in a canine model. Journal of Bone and Mineral Research, 1996, 11, 693-696.	3.1	5
104	The Bone-Implant Interface of Femoral Stems with Non-Circumferential Porous Coating. A Study of Specimens Retrieved at Autopsy*. Journal of Bone and Joint Surgery - Series A, 1996, 78, 1068-81.	1.4	114
105	Bone ingrowth and wear debris in well-fixed cementless porous-coated tibial components removed from patients. Journal of Arthroplasty, 1995, 10, 157-167.	1.5	63
106	Effects of fixation technique on displacement incompatibilities at the bone-implant interface in cementless total knee replacement in a canine model. Journal of Applied Biomaterials: an Official Journal of the Society for Biomaterials, 1994, 5, 349-352.	1.1	12
107	Stem curvature and load angle influence the initial relative bone-implant motion of cementless femoral stems. Journal of Orthopaedic Research, 1993, 11, 758-769.	1.2	53
108	Histology of porous-coated acetabular components: 25 cementless cups retrieved after arthroplasty. Acta Orthopaedica, 1993, 64, 619-626.	1.4	75

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109	A quantitative study of bone and soft tissues in cementless porous-coated acetabular components retrieved at autopsy. Journal of Arthroplasty, 1993, 8, 213-225.	1.5	150
110	Measuring the volume fraction of bone ingrowth: A comparison of three techniques. Journal of Orthopaedic Research, 1990, 8, 448-452.	1.2	62
111	The geometry of the adult canine proximal femur. Journal of Orthopaedic Research, 1990, 8, 671-677.	1.2	28
112	Bone ingrowth into the tibial component of a canine total condylar knee replacement prosthesis. Journal of Orthopaedic Research, 1989, 7, 893-901.	1.2	38
113	Apparent age-related bone loss among adult female Gombe chimpanzees. American Journal of Physical Anthropology, 1989, 79, 225-234.	2.1	52
114	Symmetry of the canine femur: Implications for experimental sample size requirements. Journal of Orthopaedic Research, 1988, 6, 758-765.	1.2	42
115	Computed tomography and automated image analysis of prehistoric femora. American Journal of Physical Anthropology, 1985, 68, 225-232.	2.1	42
116	Postembryonic dimensional allometry of the human femur. American Journal of Physical Anthropology, 1984, 64, 69-74.	2.1	9
117	Contrastâ€enhanced microâ€computed tomography of compartment and timeâ€dependent changes in femoral cartilage and subchondral plate in a murine model of osteoarthritis. Anatomical Record, 0, , .	0.8	1