

Hannu T Aro

List of Publications by Year in descending order

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110
papers

5,732
citations

71102

41
h-index

76900

74
g-index

111
all docs

111
docs citations

111
times ranked

6087
citing authors

#	ARTICLE	IF	CITATIONS
1	Denosumab in Cementless Total Hip Arthroplasty: Multivariate Reanalysis of 3D Femoral Stem Migration and the Influence on Outliers. JBMR Plus, 2022, 6, e10588.	2.7	2
2	Volumetric Bone Mineral Density in Cementless Total Hip Arthroplasty in Postmenopausal Women. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1072-1082.	3.0	8
3	The potential use of denosumab in patients with arthroplasty. Lancet Rheumatology, The, 2021, 3, e165-e166.	3.9	0
4	Contributing factors to the initial femoral stem migration in cementless total hip arthroplasty of postmenopausal women. Journal of Biomechanics, 2021, 117, 110262.	2.1	10
5	Bone quality makes a difference. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 92, 503-504.	3.3	2
6	RSA of the Symax hip stem. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 91, 497-499.	3.3	0
7	Bone Mineral Density and Cortical-Bone Thickness of the Distal Radius Predict Femoral Stem Subsidence in Postmenopausal Women. Journal of Arthroplasty, 2020, 35, 1877-1884.e1.	3.1	16
8	Denosumab in Prevention of Implant Migration. Journal of Bone and Mineral Research, 2020, 35, 1824-1825.	2.8	0
9	Effect of Denosumab on Femoral Periprosthetic BMD and Early Femoral Stem Subsidence in Postmenopausal Women Undergoing Cementless Total Hip Arthroplasty. JBMR Plus, 2019, 3, e10217.	2.7	27
10	Radiostereometric analysis of the initial stability of internally fixed femoral neck fractures under differential loading. Journal of Orthopaedic Research, 2019, 37, 239-247.	2.3	9
11	PET/CT to detect adverse reactions to metal debris in patients with metal-on-metal hip arthroplasty: an exploratory prospective study. Clinical Physiology and Functional Imaging, 2018, 38, 847-855.	1.2	7
12	A Comparative ^{68}Ga -Citrate and ^{68}Ga -Chloride PET/CT Imaging of <i>Staphylococcus aureus</i> Osteomyelitis in the Rat Tibia. Contrast Media and Molecular Imaging, 2018, 2018, 1-10.	0.8	12
13	Good stability of a cementless, anatomically designed femoral stem in aging women: a 9-year RSA study of 32 patients. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 89, 490-495.	3.3	23
14	A long-lasting bisphosphonate partially protects periprosthetic bone, but does not enhance initial stability of uncemented femoral stems: A randomized placebo-controlled trial of women undergoing total hip arthroplasty. Journal of Biomechanics, 2018, 75, 35-45.	2.1	25
15	CORR Insights®: The Effect of Surgical Technique and Spacer Texture on Bone Regeneration: A Caprine Study Using the Masquelet Technique. Clinical Orthopaedics and Related Research, 2017, 475, 2586-2587.	1.5	3
16	Intensity of ^{18}F -FDG PET Uptake in Culture-Negative and Culture-Positive Cases of Chronic Osteomyelitis. Contrast Media and Molecular Imaging, 2017, 2017, 1-9.	0.8	10
17	In vitro osteogenic capacity of bone marrow MSCs from postmenopausal women reflect the osseointegration of their cementless hip stems. Bone Reports, 2016, 5, 124-135.	0.4	4
18	Is Model-based Radiostereometric Analysis Suitable for Clinical Trials of a Cementless Tapered Wedge Femoral Stem?. Clinical Orthopaedics and Related Research, 2016, 474, 2246-2253.	1.5	16

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19	Increased migration of uncemented acetabular cups in female total hip arthroplasty patients with low systemic bone mineral density. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 87, 48-54.	3.3	51
20	Local delivery of a selective androgen receptor modulator failed as an anabolic agent in a rat bone marrow ablation model. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 86, 751-9.	3.3	1
21	Adherence of hip and knee arthroplasty studies to RSA standardization guidelines. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 85, 447-455.	3.3	7
22	⁶⁸ Ga-DOTA-Siglec-9 PET/CT imaging of peri-implant tissue responses and staphylococcal infections. <i>EJNMMI Research</i> , 2014, 4, 45.	2.5	21
23	Mechanical properties and in vivo performance of load-bearing fiber-reinforced composite intramedullary nails with improved torsional strength. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 127-139.	3.1	30
24	Osteointegration of PLGA implants with nanostructured or micro-sized β -TCP particles in a minipig model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 190-200.	3.1	17
25	Characterization of porous glass fiber-reinforced composite (FRC) implant structures: porosity and mechanical properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2683-2693.	3.6	10
26	Quantitative characterization of porous commercial and experimental bone graft substitutes with microcomputed tomography. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101, 1538-1548.	3.4	10
27	Analysis of Trabecular Bone Microstructure Using Contour Tree Connectivity. <i>Lecture Notes in Computer Science</i> , 2013, 16, 428-435.	1.3	2
28	Transient 100 nM Dexamethasone Treatment Reduces Inter- and Intraindividual Variations in Osteoblastic Differentiation of Bone Marrow-Derived Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 658-666.	2.1	39
29	Radiostereometric Analysis in Measurements of Migration and Inducible Micromotion in Intra-Articular Distal Radius Fractures Treated With a Volar Plate. <i>Journal of Orthopaedic Trauma</i> , 2012, 26, e153-e160.	1.4	9
30	A controlled register-based study of 460 neurofibromatosis 1 patients: Increased fracture risk in children and adults over 41 years of age. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 2333-2337.	2.8	55
31	Low BMD affects initial stability and delays stem osseointegration in cementless total hip arthroplasty in women. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2012, 83, 107-114.	3.3	158
32	Osteoclasts derived from patients with neurofibromatosis 1 (NF1) display insensitivity to bisphosphonates in vitro. <i>Bone</i> , 2012, 50, 798-803.	2.9	18
33	Polysaccharide-Coated Thermosets for Orthopedic Applications: From Material Characterization to In Vivo Tests. <i>Biomacromolecules</i> , 2012, 13, 1564-1572.	5.4	43
34	A comparative ¹⁸ F-FDG PET/CT imaging of experimental <i>Staphylococcus aureus</i> osteomyelitis and <i>Staphylococcus epidermidis</i> foreign-body-associated infection in the rabbit tibia. <i>EJNMMI Research</i> , 2012, 2, 41.	2.5	28
35	Comparison of the osteogenic capacity of minipig and human bone marrow-derived mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1019-1025.	2.3	30
36	MicroRNAs miR-96, miR-124, and miR-199a regulate gene expression in human bone marrow-derived mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 2687-2695.	2.6	108

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37	PET imaging of blood flow and glucose metabolism in localized musculoskeletal tumors of the extremities. <i>Nuclear Medicine and Biology</i> , 2011, 38, 295-300.	0.6	9
38	Instrumented Spondylodesis in Degenerative Spondylolisthesis With Bioactive Glass and Autologous Bone. <i>Journal of Spinal Disorders and Techniques</i> , 2011, 24, 455-461.	1.9	46
39	Bioactive glass microspheres as osteopromotive inlays in macrot textured surfaces of Ti and CoCr alloy bone implants: Trapezoidal surface grooves without inlay most efficient in resisting torsional forces. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1483-1491.	3.1	10
40	Quality of intertrochanteric cancellous bone as predictor of femoral stem RSA migration in cementless total hip arthroplasty. <i>Journal of Biomechanics</i> , 2011, 44, 221-227.	2.1	38
41	Recombinant Human Bone Morphogenetic Protein-2: A Randomized Trial in Open Tibial Fractures Treated with Reamed Nail Fixation. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011, 93, 801-808.	3.0	155
42	<i>In Vivo</i> and <i>In Vitro</i> Study of a Polylactide-Fiber-Reinforced β -Tricalcium Phosphate Composite Cage in an Ovine Anterior Cervical Intercorporeal Fusion Model. <i>International Journal of Biomaterials</i> , 2011, 2011, 1-11.	2.4	9
43	Bioceramic inlays do not improve mechanical incorporation of grit-blasted titanium stems in the proximal sheep femur. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 1578-1586.	4.0	0
44	In vivo testing of a biodegradable woven fabric made of bioactive glass fibers and PLGA ₈₀ A pilot study in the rabbit. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 573-580.	3.4	14
45	Circulating plastic adherent mesenchymal stem cells in aged hip fracture patients. <i>Journal of Orthopaedic Research</i> , 2010, 28, 1634-1642.	2.3	109
46	Expression of ezrin, Bcl-2, and Ki-67 in chondrosarcomas. <i>Apmis</i> , 2010, 118, 769-776.	2.0	10
47	A 6-months, randomised, placebo-controlled evaluation of efficacy and tolerability of a low-dose 7-day buprenorphine transdermal patch in osteoarthritis patients naïve to potent opioids. <i>Scandinavian Journal of Pain</i> , 2010, 1, 122-141.	1.3	55
48	Female patients with low systemic BMD. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 81, 768-769.	3.3	0
49	Female patients with low systemic BMD are prone to bone loss in Gruen zone 7 after cementless total hip arthroplasty. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 80, 531-537.	3.3	66
50	Development of a multi-component fiber-reinforced composite implant for load-sharing conditions. <i>Medical Engineering and Physics</i> , 2009, 31, 461-469.	1.7	66
51	Radio-opaque bioactive glass markers for radiostereometric analysis. <i>Acta Biomaterialia</i> , 2009, 5, 3497-3505.	8.3	19
52	⁶⁸ Ga-DOTAVAP-P1 PET imaging capable of demonstrating the phase of inflammation in healing bones and the progress of infection in osteomyelitic bones. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 352-364.	6.4	47
53	Mechanical verification of soft-tissue attachment on bioactive glasses and titanium implants. <i>Acta Biomaterialia</i> , 2008, 4, 1118-1122.	8.3	31
54	Influence of fluid circulation on in vitro reactivity of bioactive glass particles. <i>Materials Chemistry and Physics</i> , 2008, 111, 497-502.	4.0	36

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55	Sustained release of ciprofloxacin from an osteoconductive poly(DL)-lactide implant. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 79, 295-301.	3.3	34
56	The incidence of osteopenia and osteoporosis in women with hip osteoarthritis scheduled for cementless total joint replacement. Bone, 2007, 40, 1041-1047.	2.9	130
57	Three-dimensional computer simulation of radiostereometric analysis (RSA) in distal radius fractures. Journal of Biomechanics, 2007, 40, 1855-1861.	2.1	5
58	Effect of zoledronic acid on incorporation of a bioceramic bone graft substitute. Bone, 2006, 38, 432-443.	2.9	28
59	In vitro and in vivo testing of bioabsorbable antibiotic containing bone filler for osteomyelitis treatment. Journal of Biomedical Materials Research - Part A, 2006, 78A, 532-540.	4.0	30
60	Recombinant Human Bone Morphogenetic Protein-2 in Open Tibial Fractures. Journal of Bone and Joint Surgery - Series A, 2006, 88, 1258-1265.	3.0	166
61	Accuracy and precision of radiostereometric analysis in the measurement of three-dimensional micromotion in a fracture model of the distal radius. Journal of Orthopaedic Research, 2005, 23, 481-488.	2.3	34
62	Peripheral quantitative computed tomography in evaluation of bioactive glass incorporation with bone. Biomaterials, 2005, 26, 6693-6703.	11.4	13
63	Combined effect of BMP-2 gene transfer and bioactive glass microspheres on enhancement of new bone formation. Journal of Biomedical Materials Research - Part A, 2005, 75A, 501-509.	4.0	26
64	Comparison of 18F-FDG and 68Ga PET imaging in the assessment of experimental osteomyelitis due to Staphylococcus aureus. European Journal of Nuclear Medicine and Molecular Imaging, 2005, 32, 1259-1268.	6.4	69
65	Efficacy of Ciprofloxacin-Releasing Bioabsorbable Osteoconductive Bone Defect Filler for Treatment of Experimental Osteomyelitis Due to Staphylococcus aureus. Antimicrobial Agents and Chemotherapy, 2005, 49, 1502-1508.	3.2	57
66	In vitro and in vivo release of ciprofloxacin from osteoconductive bone defect filler. Journal of Antimicrobial Chemotherapy, 2005, 56, 1063-1068.	3.0	67
67	Molecular Biological Evaluation of Bioactive Glass Microspheres and Adjunct Bone Morphogenetic Protein 2 Gene Transfer in the Enhancement of New Bone Formation. Tissue Engineering, 2005, 11, 387-394.	4.6	35
68	High tibial osteotomy for the treatment of osteoarthritis of the knee: a review of the literature and a meta-analysis of follow-up studies. Archives of Orthopaedic and Trauma Surgery, 2004, 124, 258-261.	2.4	92
69	Precision measurements of the RSA method using a phantom model of hip prosthesis. Journal of Biomechanics, 2004, 37, 487-493.	2.1	22
70	Comparative 18F-FDG PET of experimental Staphylococcus aureus osteomyelitis and normal bone healing. Journal of Nuclear Medicine, 2004, 45, 1406-11.	5.0	56
71	30 years of bone banking at Turku bone bank. Cell and Tissue Banking, 2003, 4, 43-48.	1.1	13
72	Biologic significance of surface microroughing in bone incorporation of porous bioactive glass implants. Journal of Biomedical Materials Research - Part A, 2003, 67A, 496-503.	4.0	44

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73	No improvement in the overall survival of 194 patients with chondrosarcoma in Finland in 1971-1990. Acta Orthopaedica, 2003, 74, 344-350.	1.4	46
74	No improvement in the overall survival of 194 patients with chondrosarcoma in Finland in 1971-1990. Acta Orthopaedica, 2003, 74, 344-350.	1.4	24
75	Molecular profiling of human chondrosarcomas for matrix production and cancer markers. International Journal of Cancer, 2002, 100, 144-151.	5.1	54
76	Characterization of microrough bioactive glass surface: Surface reactions and osteoblast responses in vitro. Journal of Biomedical Materials Research Part B, 2002, 62, 404-411.	3.1	55
77	Biologic tendon fixation to metallic implant augmented with autogenous cancellous bone graft and bone marrow in a canine model. Journal of Orthopaedic Research, 2002, 20, 957-966.	2.3	46
78	RECOMBINANT HUMAN BONE MORPHOGENETIC PROTEIN-2 FOR TREATMENT OF OPEN TIBIAL FRACTURES. Journal of Bone and Joint Surgery - Series A, 2002, 84, 2123-2134.	3.0	1,092
79	Comparison of Three Methods in Evaluation of Bone Ingrowth into Porous Bioactive Glass and Titanium Implants. Key Engineering Materials, 2001, 192-195, 613-616.	0.4	3
80	A metaphyseal defect model of the femur for studies of murine bone healing. Bone, 2001, 28, 423-429.	2.9	84
81	Cysteine proteinases in chondrosarcomas. Matrix Biology, 2001, 19, 717-725.	3.6	29
82	Induction of periosteal callus formation by bone morphogenetic protein-2 employing adenovirus-mediated gene delivery. Matrix Biology, 2001, 20, 123-127.	3.6	25
83	Silica-based bioactive glasses modulate expression of bone morphogenetic protein-2 mRNA in Saos-2 osteoblasts in vitro. Biomaterials, 2001, 22, 1475-1483.	11.4	125
84	Creation of microrough surface on sintered bioactive glass microspheres. Journal of Biomedical Materials Research Part B, 2001, 56, 282-288.	3.1	25
85	Pore diameter of more than 100 μ m is not requisite for bone ingrowth in rabbits. Journal of Biomedical Materials Research Part B, 2001, 58, 679-683.	3.1	329
86	Accelerated Turnover of Metaphyseal Trabecular Bone in Mice Overexpressing Cathepsin K. Journal of Bone and Mineral Research, 2001, 16, 1444-1452.	2.8	119
87	Porous bone implants. Ceramics International, 2000, 26, 897-900.	4.8	12
88	Effect of immersion in SBF on porous bioactive bodies made by sintering bioactive glass microspheres. Journal of Non-Crystalline Solids, 2000, 275, 107-115.	3.1	72
89	Expression Profiles of mRNAs for Osteoblast and Osteoclast Proteins as Indicators of Bone Loss in Mouse Immobilization Osteopenia Model. Journal of Bone and Mineral Research, 1999, 14, 1934-1942.	2.8	62
90	Cathepsin expression during skeletal development. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1999, 1446, 35-46.	2.4	60

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91	Complete genomic structure of the mouse cathepsin K gene (Ctsk) and its localization next to the Arnt gene on mouse chromosome 3. <i>Matrix Biology</i> , 1999, 18, 155-161.	3.6	8
92	Production of cartilage collagens during metaphyseal bone healing in the mouse. <i>Matrix Biology</i> , 1998, 17, 317-320.	3.6	10
93	Incorporation of cortical bone allografts and autografts in rats: Expression patterns of mRNAs for the TGF-Bs. <i>Acta Orthopaedica</i> , 1998, 69, 537-544.	1.4	10
94	Bone bank service in Finland: Experience of bacteriologic, serologic and clinical results of the Turku Bone Bank 1972-1995. <i>Acta Orthopaedica</i> , 1998, 69, 559-565.	1.4	51
95	Enhancement of Fracture Healing by Mechanical and Surgical Intervention. <i>Clinical Orthopaedics and Related Research</i> , 1998, 355S, S163-S178.	1.5	80
96	Mouse cathepsin K: cDNA cloning and predominant expression of the gene in osteoclasts, and in some hypertrophying chondrocytes during mouse development. <i>FEBS Letters</i> , 1996, 393, 307-313.	2.8	97
97	Retarded chondrogenesis in transgenic mice with a type II collagen defect results in fracture healing abnormalities. <i>Developmental Dynamics</i> , 1994, 200, 340-349.	1.8	30
98	A standardized experimental fracture in the mouse tibia. <i>Journal of Orthopaedic Research</i> , 1993, 11, 305-312.	2.3	176
99	Clinical Use of Bone Allografts. <i>Annals of Medicine</i> , 1993, 25, 403-412.	3.8	94
100	Healing of microvascular free skin flaps in irradiated recipient tissue beds. <i>American Journal of Surgery</i> , 1992, 164, 662-666.	1.8	14
101	Minor axial shortening of the radius affects outcome of Colles' fracture treatment. <i>Journal of Hand Surgery</i> , 1991, 16, 392-398.	1.6	179
102	Healing Patterns of Transverse and Oblique Osteotomies in the Canine Tibia Under External Fixation. <i>Journal of Orthopaedic Trauma</i> , 1991, 5, 351-364.	1.4	46
103	Macrophages in trauma-induced myositis ossificans. <i>Apmis</i> , 1991, 99, 482-486.	2.0	26
104	Internal remodeling of periosteal new bone during fracture healing. <i>Journal of Orthopaedic Research</i> , 1990, 8, 238-246.	2.3	32
105	Bone formation in experimental myositis ossificans. <i>Apmis</i> , 1988, 96, 933-940.	2.0	20
106	Differential expression of fibrillar collagen genes during callus formation. <i>Biochemical and Biophysical Research Communications</i> , 1987, 142, 536-541.	2.1	36
107	Changes in intramuscular collagen and fibronectin in denervation atrophy. <i>Muscle and Nerve</i> , 1985, 8, 125-131.	2.2	54
108	Effect of nerve injury on fracture healing: Callus formation studied in the rat. <i>Acta Orthopaedica</i> , 1985, 56, 233-237.	1.4	50

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109	Bone Marrow and Subcutaneous Oxygen and Carbon Dioxide in the Radiated Rabbit Limb. Acta Oto-Laryngologica, 1982, 93, 287-290.	0.9	1
110	Bioactive glass granules versus standard autologous and allogeneic bone grafts: a randomized trial of 49 adult bone tumor patients with a 10-year follow-up. Monthly Notices of the Royal Astronomical Society: Letters, 0, 93, 519-527.	3.3	3