

# Gary Hooper

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

4,829  
citations

117453

34  
h-index

106150

65  
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123  
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123  
docs citations

123  
times ranked

4978  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced bone formation in locally-optimised, low-stiffness additive manufactured titanium implants: An in silico and in vivo tibial advancement study. <i>Acta Biomaterialia</i> , 2023, 156, 202-213.	4.1	8
2	The 45-year evolution of the Mathys RM monoblock cups: have the paradigm shifts been worthwhile?. <i>HIP International</i> , 2023, 33, 193-202.	0.9	1
3	How do 3D-printed primary uncemented acetabular components compare with established uncemented acetabular cups? The experience of the New Zealand National Joint Registry. <i>HIP International</i> , 2022, 32, 73-79.	0.9	2
4	Hybrid biofabrication of 3D osteoconductive constructs comprising Mg-based nanocomposites and cell-laden bioinks for bone repair. <i>Bone</i> , 2022, 154, 116198.	1.4	25
5	Surgical Helmet Systems Are Associated with A Lower Rate of Prosthetic Joint Infection Following Total Knee Arthroplasty: Combined Results from the New Zealand Joint Registry and Surgical Site Infection Improvement Programme. <i>Journal of Arthroplasty</i> , 2022, , .	1.5	5
6	Ballistic trauma caused by military rifles: experimental study based on synthetic skull proxies. <i>Forensic Science, Medicine, and Pathology</i> , 2022, 18, 30-36.	0.6	2
7	The lifetime risk of revision following total knee arthroplasty. <i>Bone and Joint Journal</i> , 2022, 104-B, 235-241.	1.9	19
8	The advances in nanomedicine for bone and cartilage repair. <i>Journal of Nanobiotechnology</i> , 2022, 20, 141.	4.2	43
9	Hybrid fabrication of photo-clickable vascular hydrogels with additive manufactured titanium implants for enhanced osseointegration and vascularized bone formation. <i>Biofabrication</i> , 2022, 14, 034103.	3.7	9
10	3D bioassembly of cell-instructive chondrogenic and osteogenic hydrogel microspheres containing allogeneic stem cells for hybrid biofabrication of osteochondral constructs. <i>Biofabrication</i> , 2022, 14, 034101.	3.7	16
11	The lifetime revision risk of unicompartmental knee arthroplasty. <i>Bone and Joint Journal</i> , 2022, 104-B, 672-679.	1.9	16
12	Associations between comorbidity and quality of life outcomes after total joint replacement. <i>Quality of Life Research</i> , 2021, 30, 137-144.	1.5	8
13	A study into the viability of Synbone® as a proxy for <i>Sus scrofa</i> (domesticus) ribs for use with 5.56-mm open tip match ammunition in ballistic testing. <i>International Journal of Legal Medicine</i> , 2021, 135, 521-526.	1.2	7
14	Validation of Roebuck 1518 synthetic chamois as a skin simulant when backed by 10% gelatin. <i>International Journal of Legal Medicine</i> , 2021, 135, 909-912.	1.2	3
15	Nortriptyline for pain in knee osteoarthritis: a double-blind randomised controlled trial in New Zealand general practice. <i>British Journal of General Practice</i> , 2021, 71, e538-e546.	0.7	6
16	Periprosthetic fractures of the femur in primary total hip arthroplasty: a New Zealand Joint Registry analysis. <i>ANZ Journal of Surgery</i> , 2021, 91, 404-408.	0.3	5
17	International variation in distribution of ASA class in patients undergoing total hip arthroplasty and its influence on mortality: data from an international consortium of arthroplasty registries. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 92, 304-310.	1.2	7
18	The lifetime risk of revision following total hip arthroplasty. <i>Bone and Joint Journal</i> , 2021, 103-B, 479-485.	1.9	37

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19	Biological function following radical photo-polymerization of biomedical polymers and surrounding tissues: Design considerations and cellular risk factors. <i>Applied Physics Reviews</i> , 2021, 8, 011301.	5.5	13
20	Spectral CT imaging of human osteoarthritic cartilage via quantitative assessment of glycosaminoglycan content using multiple contrast agents. <i>APL Bioengineering</i> , 2021, 5, 026101.	3.3	8
21	Urinary neopterin and total neopterin measurements allow monitoring of oxidative stress and inflammation levels of knee and hip arthroplasty patients. <i>PLoS ONE</i> , 2021, 16, e0256072.	1.1	4
22	Allogeneic Mesenchymal Stromal Cells for Cartilage Regeneration: A Review of in Vitro Evaluation, Clinical Experience, and Translational Opportunities. <i>Stem Cells Translational Medicine</i> , 2021, 10, 1500-1515.	1.6	17
23	Strategies for inclusion of growth factors into 3D printed bone grafts. <i>Essays in Biochemistry</i> , 2021, 65, 569-585.	2.1	9
24	A study into the viability of Synbone® as a proxy for <i>Sus scrofa</i> (domesticus) ribs for use with 7.62mm Full Metal Jacket ammunition in ballistic testing. <i>Forensic Science, Medicine, and Pathology</i> , 2021, 17, 665-669.		2
25	Converging functionality: Strategies for 3D hybrid-construct biofabrication and the role of composite biomaterials for skeletal regeneration. <i>Acta Biomaterialia</i> , 2021, 132, 188-216.	4.1	21
26	Probing Multicellular Tissue Fusion of Cocultured Spheroids: A 3D Bioassembly Model. <i>Advanced Science</i> , 2021, 8, e2103320.	5.6	21
27	Wrestling with uncertainty after mild traumatic brain injury: a mixed methods study. <i>Disability and Rehabilitation</i> , 2020, 42, 1942-1953.	0.9	15
28	Risk factors for periprosthetic femoral fractures around total hip arthroplasty: a systematic review and meta-analysis. <i>ANZ Journal of Surgery</i> , 2020, 90, 441-447.	0.3	13
29	Hydrodynamic control of titania nanotube formation on Ti-6Al-4V alloys enhances osteogenic differentiation of human mesenchymal stromal cells. <i>Materials Science and Engineering C</i> , 2020, 109, 110562.	3.8	24
30	Design and characterisation of multi-functional strontium-gelatin nanocomposite bioinks with improved print fidelity and osteogenic capacity. <i>Bioprinting</i> , 2020, 18, e00073.	2.9	60
31	Are Lipped Polyethylene Liners Associated with Increased Revision Rates in Patients with Uncemented Acetabular Components? An Observational Cohort Study. <i>Clinical Orthopaedics and Related Research</i> , 2020, 478, 581-589.	0.7	8
32	Visible light mediated PVA-tyramine hydrogels for covalent incorporation and tailorable release of functional growth factors. <i>Biomaterials Science</i> , 2020, 8, 5005-5019.	2.6	27
33	Rational design, bio-functionalization and biological performance of hybrid additive manufactured titanium implants for orthopaedic applications: A review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 105, 103671.	1.5	97
34	Combined Infection Control and Enhanced Osteogenic Differentiation Capacity on Additive Manufactured Ti-6Al-4V are Mediated via Titania Nanotube Delivery of Novel Biofilm Inhibitors. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901963.	1.9	19
35	Advances in Extrusion 3D Bioprinting: A Focus on Multicomponent Hydrogel-Based Bioinks. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901648.	3.9	190
36	Stepwise Control of Crosslinking in a One-Pot System for Bioprinting of Low-Density Bioinks. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901544.	3.9	37

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37	How do cemented short Exeter stems perform compared with standard-length Exeter stems? The experience of the New Zealand National Joint Registry. <i>Arthroplasty Today</i> , 2020, 6, 104-111.	0.8	11
38	Use of rehabilitation after hip and knee replacement in New Zealand: a national survey. <i>New Zealand Medical Journal</i> , 2020, 133, 45-55.	0.5	1
39	Does the femoral offset affect replacements? The results from a National Joint Registry. <i>HIP International</i> , 2019, 29, 289-298.	0.9	15
40	Joint replacement rehabilitation and the role of funding source. <i>Journal of Rehabilitation Medicine</i> , 2019, 51, 770-778.	0.8	1
41	Does Tranexamic Acid Reduce Knee Swelling and Improve Early Function Following Arthroscopic Meniscectomy? A Double-Blind Randomized Controlled Trial. <i>Orthopaedic Journal of Sports Medicine</i> , 2019, 7, 232596711986612.	0.8	30
42	Safety of single-anaesthetic versus staged bilateral primary total knee replacement: experience from the New Zealand National Joint Registry. <i>ANZ Journal of Surgery</i> , 2019, 89, 567-572.	0.3	4
43	Despite Improved Survivorship of Uncemented Fixation in Total Knee Arthroplasty for Osteoarthritis, Cemented Fixation Remains the Gold Standard: An Analysis of a National Joint Registry. <i>Journal of Arthroplasty</i> , 2019, 34, 1626-1633.	1.5	39
44	Visible Light Cross-Linking of Gelatin Hydrogels Offers an Enhanced Cell Microenvironment with Improved Light Penetration Depth. <i>Macromolecular Bioscience</i> , 2019, 19, e1900098.	2.1	127
45	Intact vitreous humor as a potential extracellular matrix hydrogel for cartilage tissue engineering applications. <i>Acta Biomaterialia</i> , 2019, 85, 117-130.	4.1	20
46	Knee replacement surgery significantly elevates the urinary inflammatory biomarkers neopterin and 7,8-dihydroneopterin. <i>Clinical Biochemistry</i> , 2019, 63, 39-45.	0.8	8
47	General Assembly, Prevention, Surgical Site Preparation: Proceedings of International Consensus on Orthopedic Infections. <i>Journal of Arthroplasty</i> , 2019, 34, S85-S92.	1.5	12
48	Lifetime risk of primary total knee replacement surgery in New Zealand from 2000 to 2015. <i>New Zealand Medical Journal</i> , 2019, 132, 48-56.	0.5	0
49	The projected burden of knee osteoarthritis in New Zealand: healthcare expenditure and total joint provision. <i>New Zealand Medical Journal</i> , 2019, 132, 101-103.	0.5	0
50	The Impact of Patient and Surgical Factors on the Rate of Postoperative Infection After Total Hip Arthroplasty—A New Zealand Joint Registry Study. <i>Journal of Arthroplasty</i> , 2018, 33, 1884-1890.	1.5	36
51	Bio-resin for high resolution lithography-based biofabrication of complex cell-laden constructs. <i>Biofabrication</i> , 2018, 10, 034101.	3.7	216
52	Untangling chronic pain and post-concussion symptoms: the significance of depression. <i>Brain Injury</i> , 2018, 32, 583-592.	0.6	18
53	Does Orthopaedic Training Compromise the Outcome in Knee Joint Arthroplasty?. <i>Journal of Surgical Education</i> , 2018, 75, 1292-1298.	1.2	13
54	Which is the best bearing surface for primary total hip replacement? A New Zealand Joint Registry study. <i>HIP International</i> , 2018, 28, 352-362.	0.9	16

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55	Rehabilitation after total joint replacement: a scoping study. <i>Disability and Rehabilitation</i> , 2018, 40, 1718-1731.	0.9	25
56	Automated 3D bioassembly of micro-tissues for biofabrication of hybrid tissue engineered constructs. <i>Biofabrication</i> , 2018, 10, 024103.	3.7	137
57	Growth Factor Delivery Systems for Tissue Engineering and Regenerative Medicine. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1078, 245-269.	0.8	22
58	Is singleâ€œanaesthetic bilateral primary total hip replacement still safe? A 16â€œyear cohort study from the New Zealand Joint Registry. <i>ANZ Journal of Surgery</i> , 2018, 88, 1289-1293.	0.3	3
59	Knee replacement. <i>Lancet, The</i> , 2018, 392, 1672-1682.	6.3	449
60	The use of an Ossis custom 3D-printed tri-flanged acetabular implant for major bone loss: minimum 2-year follow-up. <i>HIP International</i> , 2018, 28, 668-674.	0.9	43
61	Is tranexamic acid toxic to articular cartilage when administered topically?. <i>Bone and Joint Journal</i> , 2018, 100-B, 404-412.	1.9	65
62	Preliminary biomechanical results of a novel pin configuration for external fixation of vertical shear pelvic fractures. <i>ANZ Journal of Surgery</i> , 2018, 88, 1051-1055.	0.3	9
63	A 96-well microplate bioreactor platform supporting individual dual perfusion and high-throughput assessment of simple or biofabricated 3D tissue models. <i>Lab on A Chip</i> , 2018, 18, 2757-2775.	3.1	47
64	Does the type of surgical drape (disposable versus non-disposable) affect the risk of subsequent surgical site infection?. <i>Journal of Orthopaedics</i> , 2018, 15, 566-570.	0.6	22
65	Quantitative imaging of excised osteoarthritic cartilage using spectral CT. <i>European Radiology</i> , 2017, 27, 384-392.	2.3	42
66	Modular Tissue Assembly Strategies for Biofabrication of Engineered Cartilage. <i>Annals of Biomedical Engineering</i> , 2017, 45, 100-114.	1.3	78
67	Midterm analysis of the seleXys cup with ceramic inlay. <i>Arthroplasty Today</i> , 2017, 3, 171-175.	0.8	2
68	Unicompartmental knee arthroplasty: state of the art. <i>Journal of ISAKOS</i> , 2017, 2, 97-107.	1.1	9
69	Survivorship of Total Hip Joint Replacements Following Isolated Liner Exchange for Wear. <i>Journal of Arthroplasty</i> , 2017, 32, 3484-3487.	1.5	7
70	Development and validation of an acoustic emission device to measure wear in total hip replacements in-vitro and in-vivo. <i>Biomedical Signal Processing and Control</i> , 2017, 33, 281-288.	3.5	11
71	Covalent Incorporation of Heparin Improves Chondrogenesis in Photocurable Gelatinâ€œMethacryloyl Hydrogels. <i>Macromolecular Bioscience</i> , 2017, 17, 1700158.	2.1	63
72	Thiolâ€œene Clickable Gelatin: A Platform Bioink for Multiple 3D Biofabrication Technologies. <i>Advanced Materials</i> , 2017, 29, 1703404.	11.1	248

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73	Rates of Joint Replacement Surgery in New Zealand, 1999â€“2015: A Comparison of Rheumatoid Arthritis and Osteoarthritis. <i>Journal of Rheumatology</i> , 2017, 44, 1823-1827.	1.0	8
74	Signal processing and event detection of hip implant acoustic emissions. <i>Control Engineering Practice</i> , 2017, 58, 287-297.	3.2	9
75	Squeaking in ceramic-on-ceramic hips: No evidence of contribution from the trunnion Morse taper. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1793-1798.	1.2	3
76	Cepstrum Analysis for Determining the Fundamental Frequency of Total Hip Replacement Acoustic Emissions. <i>IFAC-PapersOnLine</i> , 2017, 50, 9932-9937.	0.5	3
77	Rationing of hip and knee referrals in the public hospital: the true unmet need. <i>New Zealand Medical Journal</i> , 2017, 130, 39-48.	0.5	3
78	Improving outcomes in orthopaedic care. <i>New Zealand Medical Journal</i> , 2017, 130, 10-11.	0.5	0
79	Enhanced hip fracture management: use of statistical methods and dataset to evaluate a fractured neck of femur fast track pathway-pilot study. <i>New Zealand Medical Journal</i> , 2017, 130, 91-101.	0.5	7
80	The impact of patient and surgical factors on the rate of infection after primary total knee arthroplasty. <i>Bone and Joint Journal</i> , 2016, 98-B, 334-340.	1.9	102
81	Return to work for severely injured survivors of the Christchurch earthquake: influences in the first 2 years. <i>Disability and Rehabilitation</i> , 2016, 38, 987-993.	0.9	4
82	New Visible-Light Photoinitiating System for Improved Print Fidelity in Gelatin-Based Bioinks. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1752-1762.	2.6	259
83	Evaluating quality of life outcomes following joint replacement: psychometric evaluation of a short form of the WHOQOL-Bref. <i>Quality of Life Research</i> , 2016, 25, 51-61.	1.5	26
84	The challenge of the increasing demand for joint replacement. <i>New Zealand Medical Journal</i> , 2016, 129, 8-9.	0.5	3
85	Access to joint replacement: have we got it right?. <i>New Zealand Medical Journal</i> , 2016, 129, 6-7.	0.5	0
86	Does a Titanium-coated Polyethylene Press-fit Cup Give Reliable Midterm Results?. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 3806-3810.	0.7	8
87	Nortriptyline in knee osteoarthritis (NortIKA Study): study protocol for a randomised controlled trial. <i>Trials</i> , 2015, 16, 448.	0.7	5
88	Participation and quality of life outcomes among individuals with earthquake-related physical disability: A systematic review. <i>Journal of Rehabilitation Medicine</i> , 2015, 47, 385-393.	0.8	7
89	Peri-prosthetic infection â€“ An algorithmic approach to diagnosis and management. <i>Orthopaedics and Trauma</i> , 2015, 29, 69-76.	0.2	1
90	Does computer-assisted total knee arthroplasty improve the overall component position and patient function?. <i>International Orthopaedics</i> , 2014, 38, 251-257.	0.9	29

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91	Do Larger Femoral Heads Improve the Functional Outcome in Total Hip Arthroplasty?. Journal of Arthroplasty, 2014, 29, 401-404.	1.5	43
92	Acoustic Emission Monitoring of Total Hip Arthroplasty Implants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4796-4800.	0.4	9
93	Survival outcomes of cemented compared to uncemented stems in primary total hip replacement. World Journal of Orthopedics, 2014, 5, 591.	0.8	70
94	Current trends and projections in the utilisation rates of hip and knee replacement in New Zealand from 2001 to 2026. New Zealand Medical Journal, 2014, 127, 82-93.	0.5	25
95	Cementless fixation in Oxford unicompartmental knee replacement. Bone and Joint Journal, 2013, 95-B, 181-187.	1.9	89
96	Measurement of Bone Density Around the Oxford Medial Compartment Knee Replacement Using iDXA. A Precision Study. Journal of Clinical Densitometry, 2013, 16, 178-182.	0.5	8
97	Does Orthopedic Training Compromise the Outcome in Total Hip Arthroplasty?. Journal of Surgical Education, 2013, 70, 76-80.	1.2	20
98	Measurement of early wear rates with X3 polyethylene and 36-mm femoral heads in young patients – a prospective study. Current Orthopaedic Practice, 2013, 24, 641-646.	0.1	2
99	The effect of the Oxford uncemented medial compartment arthroplasty on the bone mineral density and content of the proximal tibia. Bone and Joint Journal, 2013, 95-B, 1480-1483.	1.9	15
100	The Outcome of Bone Substitute Wedges in Medial Opening High Tibial Osteotomy. The Open Orthopaedics Journal, 2013, 7, 373-377.	0.1	20
101	The early radiological results of the uncemented Oxford medial compartment knee replacement. Journal of Bone and Joint Surgery: British Volume, 2012, 94-B, 334-338.	3.4	27
102	Tissue Attenuation Characteristics of Acoustic Emission Signals for Wear and Degradation of Total Hip Arthroplasty Implants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 355-360.	0.4	7
103	The Relationship Between the American Society of Anesthesiologists Physical Rating and Outcome Following Total Hip and Knee Arthroplasty. Journal of Bone and Joint Surgery - Series A, 2012, 94, 1065-1070.	1.4	83
104	Osteotomy and Unicompartmental Knee Arthroplasty Converted to Total Knee Arthroplasty. Journal of Arthroplasty, 2012, 27, 1827-1831.	1.5	39
105	Atypical subtrochanteric fractures, bisphosphonates, blinded radiological review. ANZ Journal of Surgery, 2012, 82, 908-912.	0.3	14
106	Validation of a high-throughput microtissue fabrication process for 3D assembly of tissue engineered cartilage constructs. Cell and Tissue Research, 2012, 347, 629-642.	1.5	59
107	Central and peripheral forms of C-type natriuretic peptide (CNP): Evidence for differential regulation in plasma and cerebrospinal fluid. Peptides, 2011, 32, 797-804.	1.2	19
108	Surgical dislocation of the hip and the management of femoroacetabular impingement: results of the Christchurch experience. ANZ Journal of Surgery, 2011, 81, 446-450.	0.3	10

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109	Does the use of laminar flow and space suits reduce early deep infection after total hip and knee replacement?. Journal of Bone and Joint Surgery: British Volume, 2011, 93-B, 85-90.	3.4	202
110	Use of a New High-Activity Arthroplasty Score to Assess Function of Young Patients With Total Hip or Knee Arthroplasty. Journal of Arthroplasty, 2010, 25, 268-273.	1.5	65
111	An analysis of the Oxford hip and knee scores and their relationship to early joint revision in the New Zealand Joint Registry. Journal of Bone and Joint Surgery: British Volume, 2010, 92-B, 413-418.	3.4	127
112	Survival and functional outcome after revision of a unicompartmental to a total knee replacement. Journal of Bone and Joint Surgery: British Volume, 2010, 92-B, 508-512.	3.4	128
113	Revision following cemented and uncemented primary total hip replacement. Journal of Bone and Joint Surgery: British Volume, 2009, 91-B, 451-458.	3.4	123
114	The low contact stress mobile-bearing total knee replacement. Journal of Bone and Joint Surgery: British Volume, 2009, 91-B, 58-63.	3.4	43
115	Restoration of the Joint Line in Total Knee Arthroplasty. Journal of Arthroplasty, 2009, 24, 1099-1102.	1.5	62
116	Bilateral Total Joint Arthroplasty. Journal of Arthroplasty, 2009, 24, 1174-1177.	1.5	78
117	Clinical and radiological outcomes after revision to the low-contact-stress mobile-bearing total knee arthroplasty. ANZ Journal of Surgery, 2009, 79, 348-351.	0.3	2
118	SchrÄge offene Keilosteotomie der proximalen Tibia bei Genu varum. Operative Orthopädie Und Traumatologie, 2005, 17, 662-673.	1.0	19
119	Conservative management or closed nailing for tibial shaft fractures. A randomised prospective trial. Journal of Bone and Joint Surgery: British Volume, 1991, 73-B, 83-85.	3.4	165
120	The role of the coracoacromial ligament in the impingement syndrome. International Orthopaedics, 1988, 12, 97-104.	0.9	104
121	Closed unlocked nailing for comminuted femoral fractures. Journal of Bone and Joint Surgery: British Volume, 1988, 70-B, 619-621.	3.4	10
122	An unusual variety of skier's thumb. Journal of Hand Surgery, 1987, 12, 627-629.	0.7	11
123	Reconstruction of the anterior cruciate ligament using the bone-block iliotibial-tract transfer. Journal of Bone and Joint Surgery - Series A, 1987, 69, 1150-4.	1.4	1