Gary Hooper

List of Publications by Year in descending order

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117453 106150 4,829 123 34 65 citations g-index h-index papers 123 123 123 4978 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Knee replacement. Lancet, The, 2018, 392, 1672-1682.	6.3	449
2	New Visible-Light Photoinitiating System for Improved Print Fidelity in Gelatin-Based Bioinks. ACS Biomaterials Science and Engineering, 2016, 2, 1752-1762.	2.6	259
3	Thiol–Ene Clickable Gelatin: A Platform Bioink for Multiple 3D Biofabrication Technologies. Advanced Materials, 2017, 29, 1703404.	11.1	248
4	Bio-resin for high resolution lithography-based biofabrication of complex cell-laden constructs. Biofabrication, 2018, 10, 034101.	3.7	216
5	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
6	Advances in Extrusion 3D Bioprinting: A Focus on Multicomponent Hydrogelâ€Based Bioinks. Advanced Healthcare Materials, 2020, 9, e1901648.	3.9	190
7	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
8	Automated 3D bioassembly of micro-tissues for biofabrication of hybrid tissue engineered constructs. Biofabrication, 2018, 10, 024103.	3.7	137
9	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
10	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
11	Visible Light Crossâ€Linking of Gelatin Hydrogels Offers an Enhanced Cell Microenvironment with Improved Light Penetration Depth. Macromolecular Bioscience, 2019, 19, e1900098.	2.1	127
12	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
13	The role of the coracoacromial ligament in the impingement syndrome. International Orthopaedics, 1988, 12, 97-104.	0.9	104
14	The impact of patient and surgical factors on the rate of infection after primary total knee arthroplasty. Bone and Joint Journal, 2016, 98-B, 334-340.	1.9	102
15	Rational design, bio-functionalization and biological performance of hybrid additive manufactured titanium implants for orthopaedic applications: A review. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 105, 103671.	1.5	97
16	Cementless fixation in Oxford unicompartmental knee replacement. Bone and Joint Journal, 2013, 95-B, 181-187.	1.9	89
17	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
18	Bilateral Total Joint Arthroplasty. Journal of Arthroplasty, 2009, 24, 1174-1177.	1.5	78

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19	Modular Tissue Assembly Strategies for Biofabrication of Engineered Cartilage. Annals of Biomedical Engineering, 2017, 45, 100-114.	1.3	78
20	Survival outcomes of cemented compared to uncemented stems in primary total hip replacement. World Journal of Orthopedics, 2014, 5, 591.	0.8	70
21	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
22	Is tranexamic acid toxic to articular cartilage when administered topically?. Bone and Joint Journal, 2018, 100-B, 404-412.	1.9	65
23	Covalent Incorporation of Heparin Improves Chondrogenesis in Photocurable Gelatinâ€Methacryloyl Hydrogels. Macromolecular Bioscience, 2017, 17, 1700158.	2.1	63
24	Restoration of the Joint Line in Total Knee Arthroplasty. Journal of Arthroplasty, 2009, 24, 1099-1102.	1.5	62
25	Design and characterisation of multi-functional strontium-gelatin nanocomposite bioinks with improved print fidelity and osteogenic capacity. Bioprinting, 2020, 18, e00073.	2.9	60
26	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
27	A 96-well microplate bioreactor platform supporting individual dual perfusion and high-throughput assessment of simple or biofabricated 3D tissue models. Lab on A Chip, 2018, 18, 2757-2775.	3.1	47
28	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
29	Do Larger Femoral Heads Improve the Functional Outcome in Total Hip Arthroplasty?. Journal of Arthroplasty, 2014, 29, 401-404.	1.5	43
30	The use of an Ossis custom 3D-printed tri-flanged acetabular implant for major bone loss: minimum 2-year follow-up. HIP International, 2018, 28, 668-674.	0.9	43
31	The advances in nanomedicine for bone and cartilage repair. Journal of Nanobiotechnology, 2022, 20, 141.	4.2	43
32	Quantitative imaging of excised osteoarthritic cartilage using spectral CT. European Radiology, 2017, 27, 384-392.	2.3	42
33	Osteotomy and Unicompartmental Knee Arthroplasty Converted to Total Knee Arthroplasty. Journal of Arthroplasty, 2012, 27, 1827-1831.	1.5	39
34	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. Journal of Arthroplasty, 2019, 34, 1626-1633.	1.5	39
35	Stepwise Control of Crosslinking in a Oneâ€Pot System for Bioprinting of Lowâ€Density Bioinks. Advanced Healthcare Materials, 2020, 9, e1901544.	3.9	37
36	The lifetime risk of revision following total hip arthroplasty. Bone and Joint Journal, 2021, 103-B, 479-485.	1.9	37

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37	The Impact of Patient and Surgical Factors on the Rate of Postoperative Infection After Total Hip Arthroplastyâ€"A New Zealand Joint Registry Study. Journal of Arthroplasty, 2018, 33, 1884-1890.	1.5	36
38	Does Tranexamic Acid Reduce Knee Swelling and Improve Early Function Following Arthroscopic Meniscectomy? A Double-Blind Randomized Controlled Trial. Orthopaedic Journal of Sports Medicine, 2019, 7, 232596711986612.	0.8	30
39	Does computer-assisted total knee arthroplasty improve the overall component position and patient function?. International Orthopaedics, 2014, 38, 251-257.	0.9	29
40	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
41	Visible light mediated PVA-tyramine hydrogels for covalent incorporation and tailorable release of functional growth factors. Biomaterials Science, 2020, 8, 5005-5019.	2.6	27
42	Evaluating quality of life outcomes following joint replacement: psychometric evaluation of a short form of the WHOQOL-Bref. Quality of Life Research, 2016, 25, 51-61.	1.5	26
43	Rehabilitation after total joint replacement: a scoping study. Disability and Rehabilitation, 2018, 40, 1718-1731.	0.9	25
44	Hybrid biofabrication of 3D osteoconductive constructs comprising Mg-based nanocomposites and cell-laden bioinks for bone repair. Bone, 2022, 154, 116198.	1.4	25
45	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
46	Hydrodynamic control of titania nanotube formation on Ti-6Al-4V alloys enhances osteogenic differentiation of human mesenchymal stromal cells. Materials Science and Engineering C, 2020, 109, 110562.	3.8	24
47	Growth Factor Delivery Systems for Tissue Engineering and Regenerative Medicine. Advances in Experimental Medicine and Biology, 2018, 1078, 245-269.	0.8	22
48	Does the type of surgical drape (disposable versus non-disposable) affect the risk of subsequent surgical site infection?. Journal of Orthopaedics, 2018, 15, 566-570.	0.6	22
49	Converging functionality: Strategies for 3D hybrid-construct biofabrication and the role of composite biomaterials for skeletal regeneration. Acta Biomaterialia, 2021, 132, 188-216.	4.1	21
50	Probing Multicellular Tissue Fusion of Cocultured Spheroids—A 3Dâ€Bioassembly Model. Advanced Science, 2021, 8, e2103320.	5.6	21
51	Does Orthopedic Training Compromise the Outcome in Total Hip Arthroplasty?. Journal of Surgical Education, 2013, 70, 76-80.	1.2	20
52	The Outcome of Bone Substitute Wedges in Medial Opening High Tibial Osteotomy. The Open Orthopaedics Journal, 2013, 7, 373-377.	0.1	20
53	Intact vitreous humor as a potential extracellular matrix hydrogel for cartilage tissue engineering applications. Acta Biomaterialia, 2019, 85, 117-130.	4.1	20
54	Schr $\tilde{\mathbf{A}}$ ge offene Keilosteotomie der proximalen Tibia bei Genu varum. Operative Orthopadie Und Traumatologie, 2005, 17, 662-673.	1.0	19

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55	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
56	Combined Infection Control and Enhanced Osteogenic Differentiation Capacity on Additive Manufactured Tiâ€6Alâ€4V are Mediated via Titania Nanotube Delivery of Novel Biofilm Inhibitors. Advanced Materials Interfaces, 2020, 7, 1901963.	1.9	19
57	The lifetime risk of revision following total knee arthroplasty. Bone and Joint Journal, 2022, 104-B, 235-241.	1.9	19
58	Untangling chronic pain and post-concussion symptoms: the significance of depression. Brain Injury, 2018, 32, 583-592.	0.6	18
59	Allogeneic Mesenchymal Stromal Cells for Cartilage Regeneration: A Review of in Vitro Evaluation, Clinical Experience, and Translational Opportunities. Stem Cells Translational Medicine, 2021, 10, 1500-1515.	1.6	17
60	Which is the best bearing surface for primary total hip replacement? A New Zealand Joint Registry study. HIP International, 2018, 28, 352-362.	0.9	16
61	3D bioassembly of cell-instructive chondrogenic and osteogenic hydrogel microspheres containing allogeneic stem cells for hybrid biofabrication of osteochondral constructs. Biofabrication, 2022, 14, 034101.	3.7	16
62	The lifetime revision risk of unicompartmental knee arthroplasty. Bone and Joint Journal, 2022, 104-B, 672-679.	1.9	16
63	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
64	Does the femoral offset affect replacements? The results from a National Joint Registry. HIP International, 2019, 29, 289-298.	0.9	15
65	Wrestling with uncertainty after mild traumatic brain injury: a mixed methods study. Disability and Rehabilitation, 2020, 42, 1942-1953.	0.9	15
66	Atypical subtrochanteric fractures, bisphosphonates, blinded radiological review. ANZ Journal of Surgery, 2012, 82, 908-912.	0.3	14
67	Does Orthopaedic Training Compromise the Outcome in Knee Joint Arthroplasty?. Journal of Surgical Education, 2018, 75, 1292-1298.	1.2	13
68	Risk factors for periprosthetic femoral fractures around total hip arthroplasty: a systematic review and metaâ€analysis. ANZ Journal of Surgery, 2020, 90, 441-447.	0.3	13
69	Biological function following radical photo-polymerization of biomedical polymers and surrounding tissues: Design considerations and cellular risk factors. Applied Physics Reviews, 2021, 8, 011301.	5.5	13
70	General Assembly, Prevention, Surgical Site Preparation: Proceedings of International Consensus on Orthopedic Infections. Journal of Arthroplasty, 2019, 34, S85-S92.	1.5	12
71	An unusual variety of skier's thumb. Journal of Hand Surgery, 1987, 12, 627-629.	0.7	11
72	Development and validation of an acoustic emission device to measure wear in total hip replacements in-vitro and in-vivo. Biomedical Signal Processing and Control, 2017, 33, 281-288.	3.5	11

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73	How do cemented short Exeter stems perform compared with standard-length Exeter stems? The experience of the New Zealand National Joint Registry. Arthroplasty Today, 2020, 6, 104-111.	0.8	11
74	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
75	Closed unlocked nailing for comminuted femoral fractures. Journal of Bone and Joint Surgery: British Volume, 1988, 70-B, 619-621.	3.4	10
76	Acoustic Emission Monitoring of Total Hip Arthroplasty Implants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4796-4800.	0.4	9
77	Unicompartmental knee arthroplasty: state of the art. Journal of ISAKOS, 2017, 2, 97-107.	1.1	9
78	Signal processing and event detection of hip implant acoustic emissions. Control Engineering Practice, 2017, 58, 287-297.	3.2	9
79	Preliminary biomechanical results of a novel pin configuration for external fixation of vertical shear pelvic fractures. ANZ Journal of Surgery, 2018, 88, 1051-1055.	0.3	9
80	Strategies for inclusion of growth factors into 3D printed bone grafts. Essays in Biochemistry, 2021, 65, 569-585.	2.1	9
81	Hybrid fabrication of photo-clickable vascular hydrogels with additive manufactured titanium implants for enhanced osseointegration and vascularized bone formation. Biofabrication, 2022, 14, 034103.	3.7	9
82	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
83	Does a Titanium-coated Polyethylene Press-fit Cup Give Reliable Midterm Results?. Clinical Orthopaedics and Related Research, 2015, 473, 3806-3810.	0.7	8
84	Rates of Joint Replacement Surgery in New Zealand, 1999–2015: A Comparison of Rheumatoid Arthritis and Osteoarthritis. Journal of Rheumatology, 2017, 44, 1823-1827.	1.0	8
85	Knee replacement surgery significantly elevates the urinary inflammatory biomarkers neopterin and 7,8-dihydroneopterin. Clinical Biochemistry, 2019, 63, 39-45.	0.8	8
86	Are Lipped Polyethylene Liners Associated with Increased Revision Rates in Patients with Uncemented Acetabular Components? An Observational Cohort Study. Clinical Orthopaedics and Related Research, 2020, 478, 581-589.	0.7	8
87	Associations between comorbidity and quality of life outcomes after total joint replacement. Quality of Life Research, 2021, 30, 137-144.	1.5	8
88	Spectral CT imaging of human osteoarthritic cartilage via quantitative assessment of glycosaminoglycan content using multiple contrast agents. APL Bioengineering, 2021, 5, 026101.	3.3	8
89	Enhanced bone formation in locally-optimised, low-stiffness additive manufactured titanium implants: An in silico and in vivo tibial advancement study. Acta Biomaterialia, 2023, 156, 202-213.	4.1	8
90	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

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91	Participation and quality of life outcomes among individuals with earthquake-related physical disability: A systematic review. Journal of Rehabilitation Medicine, 2015, 47, 385-393.	0.8	7
92	Survivorship of Total Hip Joint Replacements Following Isolated Liner Exchange for Wear. Journal of Arthroplasty, 2017, 32, 3484-3487.	1.5	7
93	A study into the viability of Synbone \hat{A}^{\odot} as a proxy for Sus scrofa (domesticus) ribs for use with 5.56-mm open tip match ammunition in ballistic testing. International Journal of Legal Medicine, 2021, 135, 521-526.	1.2	7
94	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. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 92, 304-310.	1.2	7
95	Enhanced hip fracture management: use of statistical methods and dataset to evaluate a fractured neck of femur fast track pathway-pilot study. New Zealand Medical Journal, 2017, 130, 91-101.	0.5	7
96	Nortriptyline for pain in knee osteoarthritis: a double-blind randomised controlled trial in New Zealand general practice. British Journal of General Practice, 2021, 71, e538-e546.	0.7	6
97	Nortriptyline in knee osteoarthritis (NortIKA Study): study protocol for a randomised controlled trial. Trials, 2015, 16, 448.	0.7	5
98	Periprosthetic fractures of the femur in primary total hip arthroplasty: a New Zealand Joint Registry analysis. ANZ Journal of Surgery, 2021, 91, 404-408.	0.3	5
99	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. Journal of Arthroplasty, 2022, , .	1.5	5
100	Return to work for severely injured survivors of the Christchurch earthquake: influences in the first 2 years. Disability and Rehabilitation, 2016, 38, 987-993.	0.9	4
101	Safety of singleâ€anaesthetic versus staged bilateral primary total knee replacement: experience from the New Zealand National Joint Registry. ANZ Journal of Surgery, 2019, 89, 567-572.	0.3	4
102	Urinary neopterin and total neopterin measurements allow monitoring of oxidative stress and inflammation levels of knee and hip arthroplasty patients. PLoS ONE, 2021, 16, e0256072.	1.1	4
103	Squeaking in ceramic-on-ceramic hips: No evidence of contribution from the trunnion morse taper. Journal of Orthopaedic Research, 2017, 35, 1793-1798.	1.2	3
104	Cepstrum Analysis for Determining the Fundamental Frequency of Total Hip Replacement Acoustic Emissions. IFAC-PapersOnLine, 2017, 50, 9932-9937.	0.5	3
105	Is singleâ€anaesthetic bilateral primary total hip replacement still safe? A 16â€year cohort study from the New Zealand Joint Registry. ANZ Journal of Surgery, 2018, 88, 1289-1293.	0.3	3
106	Validation of Roebuck 1518 synthetic chamois as a skin simulant when backed by 10% gelatin. International Journal of Legal Medicine, 2021, 135, 909-912.	1,2	3
107	The challenge of the increasing demand for joint replacement. New Zealand Medical Journal, 2016, 129, 8-9.	0.5	3
108	Rationing of hip and knee referrals in the public hospital: the true unmet need. New Zealand Medical Journal, 2017, 130, 39-48.	0.5	3

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109	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
110	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
111	Midterm analysis of the seleXys cup with ceramic inlay. Arthroplasty Today, 2017, 3, 171-175.	0.8	2
112	How do 3D-printed primary uncemented acetabular components compare with established uncemented acetabular cups? The experience of the New Zealand National Joint Registry. HIP International, 2022, 32, 73-79.	0.9	2
113	A study into the viability of Synbone® as a proxy for Sus scrofa (domesticus) ribs for use with 7.62 × 51Âmm Full Metal Jacket ammunition in ballistic testing. Forensic Science, Medicine, and Pathol 2021, 17, 665-669.	OG.Ys	2
114	Ballistic trauma caused by military rifles: experimental study based on synthetic skull proxies. Forensic Science, Medicine, and Pathology, 2022, 18, 30-36.	0.6	2
115	Peri-prosthetic infection – An algorithmic approach to diagnosis and management. Orthopaedics and Trauma, 2015, 29, 69-76.	0.2	1
116	Joint replacement rehabilitation and the role of funding source. Journal of Rehabilitation Medicine, 2019, 51, 770-778.	0.8	1
117	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
118	Use of rehabilitation after hip and knee replacement in New Zealand: a national survey. New Zealand Medical Journal, 2020, 133, 45-55.	0.5	1
119	The 45-year evolution of the Mathys RM monoblock cups: have the paradigm shifts been worthwhile?. HIP International, 2023, 33, 193-202.	0.9	1
120	Access to joint replacement: have we got it right?. New Zealand Medical Journal, 2016, 129, 6-7.	0.5	0
121	Improving outcomes in orthopaedic care. New Zealand Medical Journal, 2017, 130, 10-11.	0.5	0
122	Lifetime risk of primary total knee replacement surgery in New Zealand from 2000 to 2015. New Zealand Medical Journal, 2019, 132, 48-56.	0.5	0
123	The projected burden of knee osteoarthritis in New Zealand: healthcare expenditure and total joint provision. New Zealand Medical Journal, 2019, 132, 101-103.	0.5	0