

Joanne L Tipper

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66
papers

2,415
citations

27
h-index

49
g-index

70
ext. papers

2,639
ext. citations

4.7
avg, IF

4.45
L-index

#	Paper	IF	Citations
66	Tribology of alternative bearings. <i>Clinical Orthopaedics and Related Research</i> , 2006 , 453, 25-34	2.2	165
65	Quantitative analysis of polyethylene wear debris, wear rate and head damage in retrieved Charnley hip prostheses. <i>Journal of Materials Science: Materials in Medicine</i> , 2000 , 11, 117-24	4.5	145
64	Distribution of genes encoding erythromycin ribosomal methylases and an erythromycin efflux pump in epidemiologically distinct groups of staphylococci. <i>Journal of Antimicrobial Chemotherapy</i> , 1993 , 31, 211-7	5.1	142
63	Wear, debris, and biologic activity of cross-linked polyethylene in the knee: benefits and potential concerns. <i>Clinical Orthopaedics and Related Research</i> , 2004 , 114-9	2.2	136
62	A novel low wearing differential hardness, ceramic-on-metal hip joint prosthesis. <i>Journal of Biomechanics</i> , 2001 , 34, 1291-8	2.9	123
61	Alumina-alumina artificial hip joints. Part II: characterisation of the wear debris from in vitro hip joint simulations. <i>Biomaterials</i> , 2002 , 23, 3441-8	15.6	111
60	Quantitative analysis of the wear and wear debris from low and high carbon content cobalt chrome alloys used in metal on metal total hip replacements. <i>Journal of Materials Science: Materials in Medicine</i> , 1999 , 10, 353-62	4.5	111
59	Long-term wear of ceramic matrix composite materials for hip prostheses under severe swing phase microseparation. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 567-73		104
58	Characterisation of wear debris from UHMWPE on zirconia ceramic, metal-on-metal and alumina ceramic-on-ceramic hip prostheses generated in a physiological anatomical hip joint simulator. <i>Wear</i> , 2001 , 250, 120-128	3.5	101
57	Wear of surface engineered metal-on-metal hip prostheses. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 225-35	4.5	100
56	Long-term wear of HIPed alumina on alumina bearings for THR under microseparation conditions. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 1053-6	4.5	97
55	Characterisation of wear particles produced by metal on metal and ceramic on metal hip prostheses under standard and microseparation simulation. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 819-27	4.5	89
54	Wear of crosslinked polyethylene under different tribological conditions. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 235-43	4.5	69
53	Quantitative comparison of wear debris from UHMWPE that has and has not been sterilised by gamma irradiation. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1998 , 80, 340-4		66
52	Severe wear and fracture of zirconia heads against alumina inserts in hip simulator studies with microseparation. <i>Journal of Arthroplasty</i> , 2003 , 18, 726-34	4.4	64
51	Effect of cup inclination angle during microseparation and rim loading on the wear of BIOLOX Δ delta ceramic-on-ceramic total hip replacement. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 95, 263-8	3.5	56
50	Wear of 36-mm BIOLOX(R) delta ceramic-on-ceramic bearing in total hip replacements under edge loading conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013 , 227, 535-42	1.7	54

49	Quantitative characterization of polyethylene debris isolated from periprosthetic tissue in early failure knee implants and early and late failure Charnley hip implants. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 58, 415-20		52
48	Identification of nanometre-sized ultra-high molecular weight polyethylene wear particles in samples retrieved in vivo. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2008 , 90, 1106-13		50
47	The biological response to nanometre-sized polymer particles. <i>Acta Biomaterialia</i> , 2015 , 23, 38-51	10.8	47
46	The Biologic Response to Polyetheretherketone (PEEK) Wear Particles in Total Joint Replacement: A Systematic Review. <i>Clinical Orthopaedics and Related Research</i> , 2016 , 474, 2394-2404	2.2	47
45	Biological effects of cobalt-chromium nanoparticles and ions on dural fibroblasts and dural epithelial cells. <i>Biomaterials</i> , 2013 , 34, 3547-58	15.6	46
44	Nanometre size wear debris generated from crosslinked and non-crosslinked ultra high molecular weight polyethylene in artificial joints. <i>Wear</i> , 2005 , 259, 977-983	3.5	44
43	Investigation of wear and wear particles from a UHMWPE/multi-walled carbon nanotube nanocomposite for total joint replacements. <i>Wear</i> , 2014 , 317, 163-169	3.5	39
42	Effect of femoral head size on the wear of metal on metal bearings in total hip replacements under adverse edge-loading conditions. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 213-22	3.5	38
41	Cross-linked glenoid prosthesis: a wear comparison to conventional glenoid prosthesis with wear particulate analysis. <i>Journal of Shoulder and Elbow Surgery</i> , 2009 , 18, 130-7	4.3	34
40	The effect of anterior-posterior shear load on the wear of ProDisc-L TDR. <i>European Spine Journal</i> , 2010 , 19, 1356-62	2.7	32
39	Wear-simulation analysis of rotating-platform mobile-bearing knees. <i>Orthopedics</i> , 2006 , 29, S36-41	1.5	25
38	The prediction of polyethylene wear rate and debris morphology produced by microscopic asperities on femoral heads. <i>Journal of Materials Science: Materials in Medicine</i> , 2000 , 11, 163-74	4.5	22
37	(iv) Enhancing the safety and reliability of joint replacement implants. <i>Orthopaedics and Trauma</i> , 2012 , 26, 246-252	0.5	18
36	Comparison of periprosthetic tissue digestion methods for ultra-high molecular weight polyethylene wear debris extraction. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 91, 409-18	3.5	18
35	Survival and multiplication of <i>Burkholderia cepacia</i> within respiratory epithelial cells. <i>Clinical Microbiology and Infection</i> , 1998 , 4, 450-459	9.5	15
34	Biological Impact of Silicon Nitride for Orthopaedic Applications: Role of Particle Size, Surface Composition and Donor Variation. <i>Scientific Reports</i> , 2018 , 8, 9109	4.9	15
33	The effect of anterior-posterior shear on the wear of CHARIT ¹ total disc replacement. <i>Spine</i> , 2012 , 37, E528-34	3.3	14
32	Comparison of the biological activity of grade GUR 1120 and GUR 415HP UHMWPE wear debris. <i>Bio-Medical Materials and Engineering</i> , 2002 , 12, 177-88	1	13

31	Advanced Strategies for the Regeneration of Lumbar Disc Annulus Fibrosus. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
30	Evaluation of a new methodology to simulate damage and wear of polyethylene hip replacements subjected to edge loading in hip simulator testing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 1456-1462	3.5	9
29	Wear and biological effects of a semi-constrained total disc replacement subject to modified ISO standard test conditions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 44, 43-52	4.1	9
28	Elastic fibers: The missing key to improve engineering concepts for reconstruction of the Nucleus Pulposus in the intervertebral disc. <i>Acta Biomaterialia</i> , 2020 , 113, 407-416	10.8	9
27	A novel method for isolation and recovery of ceramic nanoparticles and metal wear debris from serum lubricants at ultra-low wear rates. <i>Acta Biomaterialia</i> , 2016 , 42, 420-428	10.8	9
26	Interaction of micron and nano-sized particles with cells of the dura mater. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 1496-505	3.5	8
25	Biological activity of polyethylene wear debris produced in the patellofemoral joint. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012 , 226, 377-83	1.7	8
24	(v) Simulation and measurement of wear in metal-on-metal bearings in vitro- understanding the reasons for increased wear. <i>Orthopaedics and Trauma</i> , 2012 , 26, 253-258	0.5	7
23	Mechanical Properties and Three-Dimensional Topological Characterisation of Micron, Submicron and Nanoparticles from Artificial Joints. <i>Tribology Letters</i> , 2013 , 52, 449-460	2.8	6
22	The ultrastructural organization of elastic fibers at the interface of the nucleus and annulus of the intervertebral disk. <i>Acta Biomaterialia</i> , 2020 , 114, 323-332	10.8	6
21	Recovery of low volumes of wear debris from rat stifle joint tissues using a novel particle isolation method. <i>Acta Biomaterialia</i> , 2018 , 71, 339-350	10.8	4
20	Biological Effects of Clinically Relevant CoCr Nanoparticles in the Dura Mater: An Organ Culture Study. <i>Nanomaterials</i> , 2014 , 4, 485-504	5.4	4
19	Hyperbranched polymers tune the physicochemical, mechanical, and biomedical properties of alginate hydrogels. <i>Materials Today Chemistry</i> , 2022 , 23, 100656	6.2	4
18	Investigation of three-dimensional surface topographies and mechanical properties of hypothesized biological active wear particles from artificial joints. <i>Wear</i> , 2013 , 301, 182-187	3.5	3
17	Current status and future potential of wear-resistant coatings and articulating surfaces for hip and knee implants. <i>Materials Today Bio</i> , 2022 , 15, 100270	9.9	3
16	Generation of a large volume of clinically relevant nanometre-sized ultra-high-molecular-weight polyethylene wear particles for cell culture studies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014 , 228, 418-26	1.7	2
15	Neural cell responses to wear debris from metal-on-metal total disc replacements. <i>European Spine Journal</i> , 2020 , 29, 2701-2712	2.7	2
14	Concentration and size distribution data of silicon nitride nanoparticles measured using nanoparticle tracking analysis. <i>Data in Brief</i> , 2017 , 15, 821-823	1.2	1

13	Characterization of UHMWPE Wear Particles 2016 , 635-653		1
12	Tribology of Hip Joints from Natural Hip Joints, Cartilage Substitution, Artificial Replacements to Cartilage Tissue Engineering. <i>Journal of Biomechanical Science and Engineering</i> , 2006 , 1, 69-81	0.8	1
11	Advances in simulator testing of orthopaedic joint prostheses. <i>Tribology Series</i> , 2003 , 41, 291-296		1
10	Development and optimisation data of a tissue digestion method for the isolation of orthopaedic wear particles. <i>Data in Brief</i> , 2018 , 20, 173-177	1.2	1
9	Validation of a novel particle isolation procedure using particle doped tissue samples. <i>Data in Brief</i> , 2018 , 18, 1802-1807	1.2	1
8	Recovery rate data for silicon nitride nanoparticle isolation using sodium polytungstate density gradients. <i>Data in Brief</i> , 2018 , 19, 1474-1476	1.2	1
7	Quantitative characterization of polyethylene debris isolated from periprosthetic tissue in early failure knee implants and early and late failure Charnley hip implants 2001 , 58, 415		1
6	Micromechanical characterisation of 3D bioprinted neural cell models using Brillouin microspectroscopy. <i>Bioprinting</i> , 2022 , 25, e00179	7	0
5	Developing a Tooth Organ Culture Model for Dental and Periodontal Regeneration Research. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 581413	5.8	0
4	Biologic Responses to Polyetheretherketone (PEEK) Wear Particles 2019 , 367-384		
3	TRIBOLOGY OF METAL-ON-METAL ARTIFICIAL HIP JOINTS 2009 , 279-307		
2	Magnetic resonance elastography: A non-invasive biomarker for low back pain studies. <i>Biomedical Engineering Advances</i> , 2021 , 2, 100014		
1	ALTEN: A High-Fidelity Primary Tissue-Engineering Platform to Assess Cellular Responses Ex Vivo. <i>Advanced Science</i> , 2103332	13.6	