Joanne L Tipper

List of Publications by Year in Descending Order

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	Hyperbranched polymers tune the physicochemical, mechanical, and biomedical properties of alginate hydrogels. *Materials Today Chemistry*, **2022**, 23, 100656	6.2	4
65	Micromechanical characterisation of 3D bioprinted neural cell models using Brillouin microspectroscopy. *Bioprinting*, **2022**, 25, e00179	7	0
64	Current status and future potential of wear-resistant coatings and articulating surfaces for hip and knee implants. *Materials Today Bio*, **2022**, 15, 100270	9.9	3
63	Magnetic resonance elastography: A non-invasive biomarker for low back pain studies. *Biomedical Engineering Advances*, **2021**, 2, 100014		
62	Neural cell responses to wear debris from metal-on-metal total disc replacements. *European Spine Journal*, **2020**, 29, 2701-2712	2.7	2
61	Advanced Strategies for the Regeneration of Lumbar Disc Annulus Fibrosus. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	12
60	Elastic fibers: The missing key to improve engineering concepts for reconstruction of the Nucleus Pulposus in the intervertebral disc. *Acta Biomaterialia*, **2020**, 113, 407-416	10.8	9
59	The ultrastructural organization of elastic fibers at the interface of the nucleus and annulus of the intervertebral disk. *Acta Biomaterialia*, **2020**, 114, 323-332	10.8	6
58	Developing a Tooth Organ Culture Model for Dental and Periodontal Regeneration Research. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 581413	5.8	0
57	Biologic Responses to Polyetheretherketone (PEEK) Wear Particles **2019**, 367-384		
56	Recovery of low volumes of wear debris from rat stifle joint tissues using a novel particle isolation method. *Acta Biomaterialia*, **2018**, 71, 339-350	10.8	4
55	Evaluation of a new methodology to simulate damage and wear of polyethylene hip replacements subjected to edge loading in hip simulator testing. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 1456-1462	3.5	9
54	Development and optimisation data of a tissue digestion method for the isolation of orthopaedic wear particles. *Data in Brief*, **2018**, 20, 173-177	1.2	1
53	Validation of a novel particle isolation procedure using particle doped tissue samples. *Data in Brief*, **2018**, 18, 1802-1807	1.2	1
52	Recovery rate data for silicon nitride nanoparticle isolation using sodium polytungstate density gradients. *Data in Brief*, **2018**, 19, 1474-1476	1.2	1
51	Biological Impact of Silicon Nitride for Orthopaedic Applications: Role of Particle Size, Surface Composition and Donor Variation. *Scientific Reports*, **2018**, 8, 9109	4.9	15
50	Concentration and size distribution data of silicon nitride nanoparticles measured using nanoparticle tracking analysis. *Data in Brief*, **2017**, 15, 821-823	1.2	1

49	Characterization of UHMWPE Wear Particles **2016**, 635-653		1
48	A novel method for isolation and recovery of ceramic nanoparticles and metal wear debris from serum lubricants at ultra-low wear rates. *Acta Biomaterialia*, **2016**, 42, 420-428	10.8	9
47	The Biologic Response to Polyetheretherketone (PEEK) Wear Particles in Total Joint Replacement: A Systematic Review. *Clinical Orthopaedics and Related Research*, **2016**, 474, 2394-2404	2.2	47
46	The biological response to nanometre-sized polymer particles. *Acta Biomaterialia*, **2015**, 23, 38-51	10.8	47
45	Wear and biological effects of a semi-constrained total disc replacement subject to modified ISO standard test conditions. *Journal of the Mechanical Behavior of Biomedical Materials*, **2015**, 44, 43-52	4.1	9
44	Investigation of wear and wear particles from a UHMWPE/multi-walled carbon nanotube nanocomposite for total joint replacements. *Wear*, **2014**, 317, 163-169	3.5	39
43	Biological Effects of Clinically Relevant CoCr Nanoparticles in the Dura Mater: An Organ Culture Study. *Nanomaterials*, **2014**, 4, 485-504	5.4	4
42	Generation of a large volume of clinically relevant nanometre-sized ultra-high-molecular-weight polyethylene wear particles for cell culture studies. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2014**, 228, 418-26	1.7	2
41	Interaction of micron and nano-sized particles with cells of the dura mater. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2014**, 102, 1496-505	3.5	8
40	Mechanical Properties and Three-Dimensional Topological Characterisation of Micron, Submicron and Nanoparticles from Artificial Joints. *Tribology Letters*, **2013**, 52, 449-460	2.8	6
39	Effect of femoral head size on the wear of metal on metal bearings in total hip replacements under adverse edge-loading conditions. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 213-22	3.5	38
38	Investigation of three-dimensional surface topographies and mechanical properties of hypothesized biological active wear particles from artificial joints. *Wear*, **2013**, 301, 182-187	3.5	3
37	Biological effects of cobalt-chromium nanoparticles and ions on dural fibroblasts and dural epithelial cells. *Biomaterials*, **2013**, 34, 3547-58	15.6	46
36	Wear of 36-mm BIOLOX(R) delta ceramic-on-ceramic bearing in total hip replacements under edge loading conditions. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2013**, 227, 535-42	1.7	54
35	(v) Simulation and measurement of wear in metal-on-metal bearings in vitro- understanding the reasons for increased wear. *Orthopaedics and Trauma*, **2012**, 26, 253-258	0.5	7
34	(iv) Enhancing the safety and reliability of joint replacement implants. *Orthopaedics and Trauma*, **2012**, 26, 246-252	0.5	18
33	Biological activity of polyethylene wear debris produced in the patellofemoral joint. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2012**, 226, 377-83	1.7	8
32	The effect of anterior-posterior shear on the wear of CHARITÉ total disc replacement. *Spine*, **2012**, 37, E528-34	3.3	14

31	The effect of anterior-posterior shear load on the wear of ProDisc-L TDR. *European Spine Journal*, **2010**, 19, 1356-62	2.7	32
30	Effect of cup inclination angle during microseparation and rim loading on the wear of BIOLOX delta ceramic-on-ceramic total hip replacement. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 95, 263-8	3.5	56
29	Comparison of periprosthetic tissue digestion methods for ultra-high molecular weight polyethylene wear debris extraction. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 91, 409-18	3.5	18
28	Cross-linked glenoid prosthesis: a wear comparison to conventional glenoid prosthesis with wear particulate analysis. *Journal of Shoulder and Elbow Surgery*, **2009**, 18, 130-7	4.3	34
27	TRIBOLOGY OF METAL-ON-METAL ARTIFICIAL HIP JOINTS **2009**, 279-307		
26	Identification of nanometre-sized ultra-high molecular weight polyethylene wear particles in samples retrieved in vivo. *Journal of Bone and Joint Surgery: British Volume*, **2008**, 90, 1106-13		50
25	Characterisation of wear particles produced by metal on metal and ceramic on metal hip prostheses under standard and microseparation simulation. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 819-27	4.5	89
24	Tribology of Hip Joints from Natural Hip Joints, Cartilage Substitution, Artificial Replacements to Cartilage Tissue Engineering. *Journal of Biomechanical Science and Engineering*, **2006**, 1, 69-81	0.8	1
23	Tribology of alternative bearings. *Clinical Orthopaedics and Related Research*, **2006**, 453, 25-34	2.2	165
22	Wear of crosslinked polyethylene under different tribological conditions. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 235-43	4.5	69
21	Wear-simulation analysis of rotating-platform mobile-bearing knees. *Orthopedics*, **2006**, 29, S36-41	1.5	25
20	Nanometre size wear debris generated from crosslinked and non-crosslinked ultra high molecular weight polyethylene in artificial joints. *Wear*, **2005**, 259, 977-983	3.5	44
19	Wear of surface engineered metal-on-metal hip prostheses. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 225-35	4.5	100
18	Wear, debris, and biologic activity of cross-linked polyethylene in the knee: benefits and potential concerns. *Clinical Orthopaedics and Related Research*, **2004**, 114-9	2.2	136
17	Advances in simulator testing of orthopaedic joint prostheses. *Tribology Series*, **2003**, 41, 291-296		1
16	Long-term wear of ceramic matrix composite materials for hip prostheses under severe swing phase microseparation. *Journal of Biomedical Materials Research Part B*, **2003**, 66, 567-73		104
15	Severe wear and fracture of zirconia heads against alumina inserts in hip simulator studies with microseparation. *Journal of Arthroplasty*, **2003**, 18, 726-34	4.4	64
14	Alumina-alumina artificial hip joints. Part II: characterisation of the wear debris from in vitro hip joint simulations. *Biomaterials*, **2002**, 23, 3441-8	15.6	111

13	Comparison of the biological activity of grade GUR 1120 and GUR 415HP UHMWPE wear debris. *Bio-Medical Materials and Engineering*, **2002**, 12, 177-88	1	13
12	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. *Wear*, **2001**, 250, 120-128	3.5	101
11	Quantitative characterization of polyethylene debris isolated from periprosthetic tissue in early failure knee implants and early and late failure Charnley hip implants. *Journal of Biomedical Materials Research Part B*, **2001**, 58, 415-20		52
10	A novel low wearing differential hardness, ceramic-on-metal hip joint prosthesis. *Journal of Biomechanics*, **2001**, 34, 1291-8	2.9	123
9	Long-term wear of HIPed alumina on alumina bearings for THR under microseparation conditions. *Journal of Materials Science: Materials in Medicine*, **2001**, 12, 1053-6	4.5	97
8	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
7	Quantitative analysis of polyethylene wear debris, wear rate and head damage in retrieved Charnley hip prostheses. *Journal of Materials Science: Materials in Medicine*, **2000**, 11, 117-24	4.5	145
6	The prediction of polyethylene wear rate and debris morphology produced by microscopic asperities on femoral heads. *Journal of Materials Science: Materials in Medicine*, **2000**, 11, 163-74	4.5	22
5	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. *Journal of Materials Science: Materials in Medicine*, **1999**, 10, 353-62	4.5	111
4	Survival and multiplication of Burkholderia cepacia within respiratory epithelial cells. *Clinical Microbiology and Infection*, **1998**, 4, 450-459	9.5	15
3	Quantitative comparison of wear debris from UHMWPE that has and has not been sterilised by gamma irradiation. *Journal of Bone and Joint Surgery: British Volume*, **1998**, 80, 340-4		66
2	Distribution of genes encoding erythromycin ribosomal methylases and an erythromycin efflux pump in epidemiologically distinct groups of staphylococci. *Journal of Antimicrobial Chemotherapy*, **1993**, 31, 211-7	5.1	142
1	ALTEN: A High-Fidelity Primary Tissue-Engineering Platform to Assess Cellular Responses Ex Vivo. *Advanced Science*,2103332	13.6	