

Institute of Medical and Biological Engineering Publications

In this Sway we have listed our publications for the period 2019 back to 2000 and the inception of the Institute.

For the years 2011 through to-2019 they also include clickable DOI links to journal sites.

Our datasets are listed in the second Sway on our website.

Publications 2019

Cowie RM, Briscoe A, Fisher J, Jennings LM. Wear and Friction of UHMWPE-on-PEEK OPTIMA. Journal of the Mechanical Behavior of Biomedical Materials 89, 65-71 Jan 2019

[10.1016/j.jmbbm.2018.09.021](https://doi.org/10.1016/j.jmbbm.2018.09.021)

Cowie RM , Aiken S, Cooper JJ, Jennings LM. The influence of a calcium sulphate bone void filler on the third-body damage and polyethylene wear of total knee arthroplasty. Bone and Joint Surgery **epub February 2019** [10.1302/2046-3758.82.BJR-2018-0146.R1](https://doi.org/10.1302/2046-3758.82.BJR-2018-0146.R1)

Edwards J, Ingham E & Herbert A. Decellularisation affects the strain rate dependent and dynamic mechanical properties of a xenogeneic tendon intended for anterior cruciate ligament replacement. J Mechanical Behavior of Biomedical Materials 91:18-23 01 Mar 2019

[10.1016/j.jmbbm.2018.11.023](https://doi.org/10.1016/j.jmbbm.2018.11.023)

Loughenbury FA, McWilliams AB, Stewart TD, Redmond AC, Stone MH. Hip surgeons and leg length inequality after primary hip replacement. HIP International 29(1):102-108 01 Jan 2019 [10.1177/1120700018777858](https://doi.org/10.1177/1120700018777858)

Theodorides AA, Stewart TD, Venkatesh R. Can the radiopaque marker in surgical swabs scratch orthopaedic implant surfaces? European Journal of Orthopaedic Surgery and Traumatology 29(2):383-388 Feb 2019 [10.1007/s00590-018-2309-5](https://doi.org/10.1007/s00590-018-2309-5)

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Barco A, Ingham E, Fisher J, Fermor H, Davies RPW. On the design and efficacy assessment of self-assembling peptide-based hydrogel-glycosaminoglycan mixtures for potential repair of early stage cartilage degeneration. Journal of Peptide Science 24 (8-9), Article number e3114 Aug 2018. [10.1002/psc.3114](https://doi.org/10.1002/psc.3114)

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Bowland P, Ingham E, Fisher J, Jennings LM. Simple Geometry Tribological Study of Osteochondral Graft Implantation in the Knee. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine 232(3):249-256 Mar 2018. [10.1177/0954411917751560](https://doi.org/10.1177/0954411917751560)

Brockett CL, Carbone S, Fisher J, Jennings LM. Influence of conformity on the wear of total knee replacement: An experimental study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine 232 (2), 127-134, February 2018. [10.1177/0954411917746433](https://doi.org/10.1177/0954411917746433)

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