# Cameron P Brown

List of Publications by Year
in descending order



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|---|---|---|---|
| 45 papers | 1,104 citations | 411340 20 h-index | 466096 32 g-index |
| 48 all docs | 48 docs citations | 48 times ranked | 1859 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors. Advanced Materials Technologies, 2022, 7, 2100550. | 3.0 | 5 |
| 2 | Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors (Adv. Mater. Technol. 4/2022). Advanced Materials Technologies, 2022, 7, . | 3.0 | 0 |
| 3 | Single cell force profiling of human myofibroblasts reveals a biophysical spectrum of cell states. Biology Open, 2020, 9, . | 0.6 | 6 |
| 4 | Raman spectroscopy reveals age- and sex-related differences in cortical bone from people with osteoarthritis. Scientific Reports, 2020, 10, 19443. | 1.6 | 10 |
| 5 | Saliency Improvement in Feature-Poor Surgical Environments Using Local Laplacian of Specified Histograms. IEEE Access, 2020, 8, 213378-213388. | 2.6 | 2 |
| 6 | Embrittlement of collagen in early-stage human osteoarthritis. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103663. | 1.5 | 6 |
| 7 | <scp>RASSF</scp> 1A controls tissue stiffness and cancer stemâ€like cells in lung adenocarcinoma. EMBO Journal, 2019, 38, e100532. | 3.5 | 83 |
| 8 | The combined impact of tissue heterogeneity and fixed charge for models of cartilage: the one-dimensional biphasic swelling model revisited. Biomechanics and Modeling in Mechanobiology, 2019, 18, 953-968. | 1.4 | 9 |
| 9 | Mechanical properties of silk of the Australian golden orb weaversNephila pilipesandN. plumipes. Biology Open, 2018, 7, . | 0.6 | 16 |
| 10 | A preliminary modeling investigation into the safe correction zone for high tibial osteotomy. Knee, 2018, 25, 286-295. | 0.8 | 34 |
| 11 | Using an industrial braiding machine to upscale the production and modulate the design of electrospun medical yarns. Polymer Testing, 2018, 69, 188-198. | 2.3 | 12 |
| 12 | Effect of crosslinking in cartilage-like collagen microstructures. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 138-143. | 1.5 | 21 |
| 13 | Effect of annealing on the mechanical properties and the degradation of electrospun polydioxanone filaments. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 67, 127-134. | 1.5 | 32 |
| 14 | 3D cell bioprinting of self-assembling peptide-based hydrogels. Materials Letters, 2017, 190, 103-106. | 1.3 | 97 |
| 15 | Characterizing the macro and micro mechanical properties of scaffolds for rotator cuff repair. Journal of Shoulder and Elbow Surgery, 2017, 26, 2038-2046. | 1.2 | 33 |
| 16 | Fast interferometric second harmonic generation microscopy. Biomedical Optics Express, 2016, 7, 399. | 1.5 | 18 |
| 17 | A constituent-based preprocessing approach for characterising cartilage using NIR absorbance measurements. Biomedical Physics and Engineering Express, 2016, 2, 017002. | 0.6 | 1 |
| 18 | An overview of multiphase cartilage mechanical modelling and its role in understanding function and pathology. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 62, 139-157. | 1.5 | 49 |

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|---|---|---|---|
| 19 | Modulation of Mechanical Interactions by Local Piezoelectric Effects. Advanced Functional Materials, 2016, 26, 7662-7667. | 7.8 | 13 |
| 20 | Imaging and Modelling Tissue Structure to Inform the Development of Musculoskeletal Therapies. Procedia CIRP, 2016, 49, 99-104. | 1.0 | 1 |
| 21 | Vitamin D receptor expression in human bone tissue and dose-dependent activation in resorbing osteoclasts. Bone Research, 2016, 4, 16030. | 5.4 | 42 |
| 22 | Analysis of forward and backward Second Harmonic Generation images to probe the nanoscale structure of collagen within bone and cartilage. Journal of Biophotonics, 2015, 8, 993-1001. | 1.1 | 45 |
| 23 | With great structure comes great functionality: Understanding and emulating spider silk. Journal of Materials Research, 2015, 30, 108-120. | 1.2 | 12 |
| 24 | The Impact of Collagen Fibril Polarity on Second Harmonic Generation Microscopy. Biophysical Journal, 2015, 109, 2501-2510. | 0.2 | 44 |
| 25 | Imaging and modeling collagen architecture from the nano to micro scale. Biomedical Optics Express, 2014, 5, 233. | 1.5 | 49 |
| 26 | Imaging the noncentrosymmetric structural organization of tendon with Interferometric Second Harmonic Generation microscopy. Journal of Biophotonics, 2014, 7, 638-646. | 1.1 | 33 |
| 27 | Advancing musculoskeletal research with nanoscience. Nature Reviews Rheumatology, 2013, 9, 614-623. | 3.5 | 17 |
| 28 | Acoustic, mechanical and near-infrared profiling of osteoarthritic progression in bovine joints. Physics in Medicine and Biology, 2012, 57, 547-559. | 1.6 | 14 |
| 29 | Rough Fibrils Provide a Toughening Mechanism in Biological Fibers. ACS Nano, 2012, 6, 1961-1969. | 7.3 | 59 |
| 30 | Damage initiation and progression in the cartilage surface probed by nonlinear optical microscopy. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 5, 62-70. | 1.5 | 38 |
| 31 | Second Harmonic Generation (SHG) microscopy of articular cartilage to image osteoarthritis. , 2012, , . | | 0 |
| 32 | The critical role of water in spider silk and its consequence for protein mechanics. Nanoscale, 2011, 3, 3805. | 2.8 | 35 |
| 33 | Spider silk as a load bearing biomaterial: tailoring mechanical properties via structural modifications. Nanoscale, 2011, 3, 870. | 2.8 | 28 |
| 34 | Characterization of early stage cartilage degradation using diffuse reflectance near infrared spectroscopy. Physics in Medicine and Biology, 2011, 56, 2299-2307. | 1.6 | 25 |
| 35 | ISSUES AND ADVANCES IN THE EARLY STAGE DIAGNOSIS OF OSTEOARTHRITIS. International Journal of Nanoscience, 2010, 09, 39-45. | 0.4 | 3 |
| 36 | An alternative mechanical parameter for assessing the viability of articular cartilage. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 53-62. | 1.0 | 16 |

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| 37 | Assessment of common hyperelastic constitutive equations for describing normal and osteoarthritic articular cartilage. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2009, 223, 643-652. | 1.0 | 60 |
| 38 | Diffuse reflectance near infrared spectroscopy can distinguish normal from enzymatically digested cartilage. Physics in Medicine and Biology, 2009, 54, 5579-5594. | 1.6 | 27 |
| 39 | In Search of a Parameter to Distinguish Viable from Non-Viable Articular Cartilage â€“ Indentation and Ultrasound Studies. Advanced Materials Research, 2008, 32, 223-228. | 0.3 | 0 |
| 40 | Joint laminate degradation assessed by reflected ultrasound from the cartilage surface and osteochondral junction. Physics in Medicine and Biology, 2008, 53, 4123-4135. | 1.6 | 7 |
| 41 | Indentation stiffness does not discriminate between normal and degraded articular cartilage. Clinical Biomechanics, 2007, 22, 843-848. | 0.5 | 25 |
| 42 | A Novel Approach to the Development of Benchmarking Parameters for Characterizing Cartilage Health. Connective Tissue Research, 2007, 48, 52-61. | 1.1 | 12 |
| 43 | Ultrasound Assessment of Articular Cartilage: Analysis of the Frequency Profile of Reflected Signals from Naturally and Artificially Degraded Samples. Connective Tissue Research, 2007, 48, 277-285. | 1.1 | 19 |
| 44 | In vitro degradation of articular cartilage: does trypsin treatment produce consistent results?. Journal of Anatomy, 2006, 209, 259-267. | 0.9 | 40 |
| 45 | Hierarchical Piezoresponse in Collagen. Advanced Materials Technologies, 0, , 2101166. | 3.0 | 4 |