Cameron P Brown

List of Publications by Year
in descending order

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45 papers	1,104 citations	361413 20 h-index	414414 32 g-index
48 all docs	48 docs citations	48 times ranked	1659 citing authors

#	Article	IF	Citations
1	3D cell bioprinting of self-assembling peptide-based hydrogels. Materials Letters, 2017, 190, 103-106.	2.6	97
2	<scp>RASSF</scp> 1A controls tissue stiffness and cancer stemâ€like cells in lung adenocarcinoma. EMBO Journal, 2019, 38, e100532.	7.8	83
3	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.	1.8	60
4	Rough Fibrils Provide a Toughening Mechanism in Biological Fibers. ACS Nano, 2012, 6, 1961-1969.	14.6	59
5	Imaging and modeling collagen architecture from the nano to micro scale. Biomedical Optics Express, 2014, 5, 233.	2.9	49
6	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.	3.1	49
7	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.	2.3	45
8	The Impact of Collagen Fibril Polarity on Second Harmonic Generation Microscopy. Biophysical Journal, 2015, 109, 2501-2510.	0.5	44
9	Vitamin D receptor expression in human bone tissue and dose-dependent activation in resorbing osteoclasts. Bone Research, 2016, 4, 16030.	11.4	42
10	In vitro degradation of articular cartilage: does trypsin treatment produce consistent results?. Journal of Anatomy, 2006, 209, 259-267.	1.5	40
11	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.	3.1	38
12	The critical role of water in spider silk and its consequence for protein mechanics. Nanoscale, 2011, 3, 3805.	5.6	35
13	A preliminary modeling investigation into the safe correction zone for high tibial osteotomy. Knee, 2018, 25, 286-295.	1.6	34
14	Imaging the noncentrosymmetric structural organization of tendon with Interferometric Second Harmonic Generation microscopy. Journal of Biophotonics, 2014, 7, 638-646.	2.3	33
15	Characterizing the macro and micro mechanical properties of scaffolds for rotator cuff repair. Journal of Shoulder and Elbow Surgery, 2017, 26, 2038-2046.	2.6	33
16	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.	3.1	32
17	Spider silk as a load bearing biomaterial: tailoring mechanical properties via structural modifications. Nanoscale, 2011, 3, 870.	5.6	28
18	Diffuse reflectance near infrared spectroscopy can distinguish normal from enzymatically digested cartilage. Physics in Medicine and Biology, 2009, 54, 5579-5594.	3.0	27

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19	Indentation stiffness does not discriminate between normal and degraded articular cartilage. Clinical Biomechanics, 2007, 22, 843-848.	1.2	25
20	Characterization of early stage cartilage degradation using diffuse reflectance near infrared spectroscopy. Physics in Medicine and Biology, 2011, 56, 2299-2307.	3.0	25
21	Effect of crosslinking in cartilage-like collagen microstructures. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 66, 138-143.	3.1	21
22	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.	2.3	19
23	Fast interferometric second harmonic generation microscopy. Biomedical Optics Express, 2016, 7, 399.	2.9	18
24	Advancing musculoskeletal research with nanoscience. Nature Reviews Rheumatology, 2013, 9, 614-623.	8.0	17
25	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.	1.8	16
26	Mechanical properties of silk of the Australian golden orb weaversNephila pilipesandN. plumipes. Biology Open, 2018, 7, .	1.2	16
27	Acoustic, mechanical and near-infrared profiling of osteoarthritic progression in bovine joints. Physics in Medicine and Biology, 2012, 57, 547-559.	3.0	14
28	Modulation of Mechanical Interactions by Local Piezoelectric Effects. Advanced Functional Materials, 2016, 26, 7662-7667.	14.9	13
29	A Novel Approach to the Development of Benchmarking Parameters for Characterizing Cartilage Health. Connective Tissue Research, 2007, 48, 52-61.	2.3	12
30	With great structure comes great functionality: Understanding and emulating spider silk. Journal of Materials Research, 2015, 30, 108-120.	2.6	12
31	Using an industrial braiding machine to upscale the production and modulate the design of electrospun medical yarns. Polymer Testing, 2018, 69, 188-198.	4.8	12
32	Raman spectroscopy reveals age- and sex-related differences in cortical bone from people with osteoarthritis. Scientific Reports, 2020, 10, 19443.	3.3	10
33	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.	2.8	9
34	Joint laminate degradation assessed by reflected ultrasound from the cartilage surface and osteochondral junction. Physics in Medicine and Biology, 2008, 53, 4123-4135.	3.0	7
35	Single cell force profiling of human myofibroblasts reveals a biophysical spectrum of cell states. Biology Open, 2020, 9, .	1.2	6
36	Embrittlement of collagen in early-stage human osteoarthritis. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103663.	3.1	6

#	Article	IF	Citations
37	Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors. Advanced Materials Technologies, 2022, 7, 2100550.	5.8	5
38	Hierarchical Piezoresponse in Collagen. Advanced Materials Technologies, 0, , 2101166.	5.8	4
39	ISSUES AND ADVANCES IN THE EARLY STAGE DIAGNOSIS OF OSTEOARTHRITIS. International Journal of Nanoscience, 2010, 09, 39-45.	0.7	3
40	Saliency Improvement in Feature-Poor Surgical Environments Using Local Laplacian of Specified Histograms. IEEE Access, 2020, 8, 213378-213388.	4.2	2
41	A constituent-based preprocessing approach for characterising cartilage using NIR absorbance measurements. Biomedical Physics and Engineering Express, 2016, 2, 017002.	1.2	1
42	Imaging and Modelling Tissue Structure to Inform the Development of Musculoskeletal Therapies. Procedia CIRP, 2016, 49, 99-104.	1.9	1
43	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
44	Second Harmonic Generation (SHG) microscopy of articular cartilage to image osteoarthritis. , 2012, , .		0
45	Enhancing Mechanical Energy Transfer of Piezoelectric Supercapacitors (Adv. Mater. Technol. 4/2022). Advanced Materials Technologies, 2022, 7, .	5.8	0