Jason R Maher

List of Publications by Year
in descending order

24 papers	632 citations	567281 15 h-index	794594 19 g-index
24 all docs	24 docs citations	24 times ranked	855 citing authors

#	Article	IF	Citations
1	Functional optical coherence tomography: principles and progress. Physics in Medicine and Biology, 2015, 60, R211-R237.	3.0	83
2	Heavy Metal Lead Exposure, Osteoporotic-like Phenotype in an Animal Model, and Depression of Wnt Signaling. Environmental Health Perspectives, 2013, 121, 97-104.	6.0	82
3	Deep tissue imaging using spectroscopic analysis of multiply scattered light. Optica, 2014, 1, 105.	9.3	57
4	Determination of Ideal Offset for Spatially Offset Raman Spectroscopy. Applied Spectroscopy, 2010, 64, 61-65.	2.2	52
5	Bone fragility beyond strength and mineral density: Raman spectroscopy predicts femoral fracture toughness in a murine model of rheumatoid arthritis. Journal of Biomechanics, 2013, 46, 723-730.	2.1	41
6	Mechanisms of bone fragility in a mouse model of glucocorticoidâ€treated rheumatoid arthritis: Implications for insufficiency fracture risk. Arthritis and Rheumatism, 2012, 64, 3649-3659.	6.7	39
7	Raman spectroscopy detects deterioration in biomechanical properties of bone in a glucocorticoid-treated mouse model of rheumatoid arthritis. Journal of Biomedical Optics, 2011, 16, 087012.	2.6	34
8	Overconstrained library-based fitting method reveals age- and disease-related differences in transcutaneous Raman spectra of murine bones. Journal of Biomedical Optics, 2013, 18, 077001.	2.6	30
9	Spatially offset Raman spectroscopy for in vivo bone strength prediction. Biomedical Optics Express, 2018, 9, 4781.	2.9	30
10	Co-localized confocal Raman spectroscopy and optical coherence tomography (CRS-OCT) for depth-resolved analyte detection in tissue. Biomedical Optics Express, 2015, 6, 2022.	2.9	29
11	Evaluation of burn severity in vivo in a mouse model using spectroscopic optical coherence tomography. Biomedical Optics Express, 2015, 6, 3339.	2.9	28
12	Sensitivity of spatially offset Raman spectroscopy (SORS) to subcortical bone tissue. Journal of Biophotonics, 2017, 10, 990-996.	2.3	28
13	Dual-axis optical coherence tomography for deep tissue imaging. Optics Letters, 2017, 42, 2302.	3.3	23
14	In vivo analysis of burns in a mouse model using spectroscopic optical coherence tomography. Optics Letters, 2014, 39, 5594.	3.3	21
15	Label-free analysis of tenofovir delivery to vaginal tissue using co-registered confocal Raman spectroscopy and optical coherence tomography. PLoS ONE, 2017, 12, e0185633.	2.5	18
16	Label-Free Measurements of Tenofovir Diffusion Coefficients in a Microbicide Gel Using Raman Spectroscopy. Journal of Pharmaceutical Sciences, 2017, 106, 639-644.	3.3	11
17	Sensitivity of coded aperture Raman spectroscopy to analytes beneath turbid biological tissue and tissue-simulating phantoms. Journal of Biomedical Optics, 2014, 19, 117001.	2.6	10
18	Deep imaging of absorption and scattering features by multispectral multiple scattering low coherence interferometry. Biomedical Optics Express, 2016, 7, 3916.	2.9	8

#	Article	IF	Citations
19	Full depth measurement of tenofovir transport in rectal mucosa using confocal Raman spectroscopy and optical coherence tomography. Drug Delivery and Translational Research, 2018, 8, 843-852.	5.8	8
20	Steroid Induced Osteoporosis Detected by Raman Spectroscopy. , 2010, , .		0
21	In vivo Burn Severity Assessment in a Mouse Model Using Spectroscopic Optical Coherence Tomography. , 2015, , .		0
22	Combined Raman Spectroscopy and Optical Coherence Tomography for Measuring Analytes in Targeted Tissues. , 2015, , .		0
23	Toward the Assessment of Blood Oxygenation Using Multispectral Multiple Scattering Low Coherence Interferometry. , 2016, , .		0
24	In vivo Rat Skin Flap Viability Assessment using Dual Axis Spectroscopic Optical Coherence Tomography. , 2017, , .		0