

Eric Barnhill

List of Publications by Year in descending order

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17
papers

651
citations

758635

12
h-index

996533

15
g-index

17
all docs

17
docs citations

17
times ranked

679
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance elastography (MRE) of the human brain: technique, findings and clinical applications. <i>Physics in Medicine and Biology</i> , 2016, 61, R401-R437.	1.6	176
2	Tomoelastography by multifrequency wave number recovery from time-harmonic propagating shear waves. <i>Medical Image Analysis</i> , 2016, 30, 1-10.	7.0	111
3	Tomoelastography of the abdomen: Tissue mechanical properties of the liver, spleen, kidney, and pancreas from single <scp>MR</scp> elastography scans at different hydration states. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 976-983.	1.9	67
4	Nonlinear multiscale regularisation in MR elastography: Towards fine feature mapping. <i>Medical Image Analysis</i> , 2017, 35, 133-145.	7.0	46
5	Perfusion alters stiffness of deep gray matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 116-125.	2.4	44
6	Real-time 4D phase unwrapping applied to magnetic resonance elastography. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2321-2331.	1.9	35
7	Fast tomoelastography of the mouse brain by multifrequency single-shot MR elastography. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 2676-2687.	1.9	34
8	Increasing the spatial resolution and sensitivity of magnetic resonance elastography by correcting for subject motion and susceptibility-induced image distortions. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 134-141.	1.9	32
9	Statistical mapping of the effect of knee extension on thigh muscle viscoelastic properties using magnetic resonance elastography. <i>Physiological Measurement</i> , 2013, 34, 1675-1698.	1.2	29
10	Heterogeneous Multifrequency Direct Inversion (HMDI) for magnetic resonance elastography with application to a clinical brain exam. <i>Medical Image Analysis</i> , 2018, 46, 180-188.	7.0	29
11	Magnetic resonance elastography (MRE) shows significant reduction of thigh muscle stiffness in healthy older adults. <i>GeroScience</i> , 2020, 42, 311-321.	2.1	16
12	Fast Robust Dejitter and Interslice Discontinuity Removal in MRI Phase Acquisitions: Application to Magnetic Resonance Elastography. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1578-1587.	5.4	14
13	MR elastography measurement of the effect of passive warmup prior to eccentric exercise on thigh muscle mechanical properties. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1115-1127.	1.9	12
14	The MRE Inverse Problem for the Elastic Shear Modulus. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 1367-1388.	0.8	5
15	Neural connectivity, music, and movement: a response to Pat Amos. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 29.	1.0	1
16	Entrainment is sparse. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 618.	1.0	0
17	How do conductors's movements communicate compositional features and interpretational intentions?. <i>Psychomusicology: Music, Mind and Brain</i> , 2017, 27, 148-157.	1.1	0