

Gregory T Clement

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

3,039
citations

26
h-index

54
g-index

110
ext. papers

3,553
ext. citations

3
avg, IF

5.19
L-index

#	Paper	IF	Citations
75	Transcranial magnetic resonance imaging- guided focused ultrasound surgery of brain tumors: initial findings in 3 patients. <i>Neurosurgery</i> , 2010 , 66, 323-32; discussion 332	3.2	421
74	A non-invasive method for focusing ultrasound through the human skull. <i>Physics in Medicine and Biology</i> , 2002 , 47, 1219-36	3.8	349
73	500-element ultrasound phased array system for noninvasive focal surgery of the brain: a preliminary rabbit study with ex vivo human skulls. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 100-7	4.4	260
72	Pre-clinical testing of a phased array ultrasound system for MRI-guided noninvasive surgery of the brain--a primate study. <i>European Journal of Radiology</i> , 2006 , 59, 149-56	4.7	180
71	Longitudinal and shear mode ultrasound propagation in human skull bone. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1085-96	3.5	166
70	Perspectives in clinical uses of high-intensity focused ultrasound. <i>Ultrasonics</i> , 2004 , 42, 1087-93	3.5	143
69	A hemisphere array for non-invasive ultrasound brain therapy and surgery. <i>Physics in Medicine and Biology</i> , 2000 , 45, 3707-19	3.8	134
68	Investigation of a large-area phased array for focused ultrasound surgery through the skull. <i>Physics in Medicine and Biology</i> , 2000 , 45, 1071-83	3.8	122
67	Enhanced ultrasound transmission through the human skull using shear mode conversion. <i>Journal of the Acoustical Society of America</i> , 2004 , 115, 1356-64	2.2	104
66	Clinical applications of focused ultrasound-the brain. <i>International Journal of Hyperthermia</i> , 2007 , 23, 193-202	3.7	85
65	Correlation of ultrasound phase with physical skull properties. <i>Ultrasound in Medicine and Biology</i> , 2002 , 28, 617-24	3.5	83
64	A magnetic resonance imaging-compatible, large-scale array for trans-skull ultrasound surgery and therapy. <i>Journal of Ultrasound in Medicine</i> , 2005 , 24, 1117-25	2.9	71
63	Field characterization of therapeutic ultrasound phased arrays through forward and backward planar projection. <i>Journal of the Acoustical Society of America</i> , 2000 , 108, 441-6	2.2	60
62	A unified model for the speed of sound in cranial bone based on genetic algorithm optimization. <i>Physics in Medicine and Biology</i> , 2002 , 47, 3925-44	3.8	58
61	Transcranial ultrasound focus reconstruction with phase and amplitude correction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 1518-22	3.2	53
60	Local frequency dependence in transcranial ultrasound transmission. <i>Physics in Medicine and Biology</i> , 2006 , 51, 2293-305	3.8	46
59	Micro-receiver guided transcranial beam steering. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2002 , 49, 447-53	3.2	46

58	Passive Acoustic Mapping with the Angular Spectrum Method. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 983-993	11.7	45
57	Comparison of modelled and observed in vivo temperature elevations induced by focused ultrasound: implications for treatment planning. <i>Physics in Medicine and Biology</i> , 2001 , 46, 1785-98	3.8	41
56	Time-reversal transcranial ultrasound beam focusing using a k-space method. <i>Physics in Medicine and Biology</i> , 2012 , 57, 901-17	3.8	33
55	Transcranial Assessment and Visualization of Acoustic Cavitation: Modeling and Experimental Validation. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1270-81	11.7	28
54	Evaluation of a wave-vector-frequency-domain method for nonlinear wave propagation. <i>Journal of the Acoustical Society of America</i> , 2011 , 129, 32-46	2.2	28
53	A k-space method for moderately nonlinear wave propagation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012 , 59, 1664-73	3.2	27
52	Superresolution ultrasound imaging using back-projected reconstruction. <i>Journal of the Acoustical Society of America</i> , 2005 , 118, 3953-60	2.2	27
51	Standing-wave suppression for transcranial ultrasound by random modulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 203-5	5	26
50	The role of internal reflection in transskull phase distortion. <i>Ultrasonics</i> , 2001 , 39, 109-13	3.5	26
49	Forward planar projection through layered media. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2003 , 50, 1689-98	3.2	25
48	A new ultrasound method for determining the acoustic phase shifts caused by the skull bone. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 771-80	3.5	21
47	Verification of the Westervelt equation for focused transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1097-101	3.2	20
46	An intraoperative brain shift monitor using shear mode transcranial ultrasound: preliminary results. <i>Journal of Ultrasound in Medicine</i> , 2009 , 28, 191-203	2.9	19
45	Accelerated focused ultrasound imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2009 , 56, 2612-23	3.2	19
44	A harmonic cancellation technique for an ultrasound transducer excited by a switched-mode power converter. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008 , 55, 359-67	3.2	18
43	A wireless batteryless deep-seated implantable ultrasonic pulser-receiver powered by magnetic coupling. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 1211-21	3.2	16
42	A computer-controlled ultrasound pulser-receiver system for transskull fluid detection using a shear wave transmission technique. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1772-83	3.2	16
41	Acoustic standing wave suppression using randomized phase-shift-keying excitations. <i>Journal of the Acoustical Society of America</i> , 2009 , 126, 1667-70	2.2	15

40	Preliminary results using ultrasound transmission for image-guided thermal therapy. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 293-9	3.5	13
39	The feasibility of non-contact ultrasound for medical imaging. <i>Physics in Medicine and Biology</i> , 2013 , 58, 6263-78	3.8	12
38	Spectral image reconstruction for transcranial ultrasound measurement. <i>Physics in Medicine and Biology</i> , 2005 , 50, 5557-72	3.8	12
37	Forward projection of transient signals obtained from a fiber-optic pressure sensor. <i>Journal of the Acoustical Society of America</i> , 1998 , 104, 1266-1273	2.2	12
36	Feasibility of low-frequency directive sound source with high range resolution using pulse compression technique. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 07KC03	1.4	11
35	Contrast-enhanced, real-time volumetric ultrasound imaging of tissue perfusion: preliminary results in a rabbit model of testicular torsion. <i>Physics in Medicine and Biology</i> , 2011 , 56, 2183-97	3.8	10
34	The effects of desiccation on skull bone sound speed in porcine models. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 1708-10	3.2	10
33	Automated sonographic evaluation of testicular perfusion. <i>Physics in Medicine and Biology</i> , 2006 , 51, 3419-32	3.8	10
32	Ultrasound phase-contrast transmission imaging of localized thermal variation and the identification of fat/tissue boundaries. <i>Physics in Medicine and Biology</i> , 2005 , 50, 1585-600	3.8	9
31	Application of the split-step Padé approach to nonlinear field predictions. <i>Ultrasonics</i> , 2013 , 53, 432-8	3.5	8
30	Parametric excitation of shear waves in soft solids. <i>Acoustical Physics</i> , 2009 , 55, 567-574	1.1	8
29	On the use of Gegenbauer reconstructions for shock wave propagation modeling. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 1115-24	2.2	8
28	Ultrasound field measurement using a binary lens. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 350-9	3.2	7
27	Ultrasound phase contrast thermal imaging with reflex transmission imaging methods in tissue phantoms. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1995-2006	3.5	7
26	Temporal backward planar projection of acoustic transients. <i>Journal of the Acoustical Society of America</i> , 1998 , 103, 1723-1726	2.2	7
25	The feasibility of pulse compression by nonlinear effective bandwidth extension. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 1810-9	2.2	6
24	Multi-planar dynamic contrast-enhanced ultrasound assessment of blood flow in a rabbit model of testicular torsion. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 361-70	3.5	5
23	Two-dimensional image reconstruction with spectrally-randomized ultrasound signals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 2501-10	3.2	4

22	Linear and nonlinear ultrasound fields formed by planar sources with random pressure distributions. <i>Acoustical Science and Technology</i> , 2015 , 36, 208-215	0.5	4
21	Feasibility of ultrasound phase contrast for heating localization. <i>Journal of the Acoustical Society of America</i> , 2008 , 123, 1773-83	2.2	4
20	Two-dimensional localization with a single diffuse ultrasound field excitation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2007 , 54, 2309-17	3.2	3
19	Two-dimensional ultrasound detection with unfocused frequency-randomized signals. <i>Journal of the Acoustical Society of America</i> , 2007 , 121, 636-47	2.2	3
18	Compressed parametric difference frequency sound with chirp signal 2013 ,		3
17	A projection-based approach to diffraction tomography on curved boundaries. <i>Inverse Problems</i> , 2014 , 30,	2.3	2
16	Spatial backward planar projection in absorbing media possessing an arbitrary dispersion relation. <i>Acoustical Science and Technology</i> , 2010 , 31, 379-386	0.5	2
15	Errata for "A harmonic cancellation technique for an ultrasound transducer excited by a switched-mode power converter" [Feb 08 359-367]. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2008 , 55, 738-738	3.2	2
14	A pre-treatment planning strategy for high-intensity focused ultrasound (HIFU) treatments 2008 ,		2
13	Nonlinear planar forward and backward projection 2008 ,		2
12	Local Frequency Dependence in Transcranial Ultrasound Transmission. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
11	Longitudinal and Shear Mode Ultrasound Propagation in Human Skull Bone. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
10	A computerized tomography system for transcranial ultrasound imaging. <i>Proceedings of Meetings on Acoustics</i> , 2014 , 22,	1	1
9	Comparison between diffuse infrared and acoustic transmission over the human skull. <i>Proceedings of Meetings on Acoustics</i> , 2015 , 22,	1	1
8	Thermal imaging with ultrasound reflex transmission methods 2008 ,		1
7	Parametric Excitation of Shear Waves in Soft Solids. <i>AIP Conference Proceedings</i> , 2008 ,	0	1
6	A nonlinear method for high-intensity focused ultrasound (HIFU) aberration reduction 2008 ,		1
5			1

4	Investigation of the correlation between diffuse infrared and ultrasound for transcranial ultrasound. <i>Biomedical Physics and Engineering Express</i> , 2016 , 2,	1.5	1
3	Toward transcranial ultrasound tomography: design of a 456-element low profile conformal array. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5, 025025	1.5	0
2	Measurement of thin films using very long acoustic wavelengths. <i>Journal of Applied Physics</i> , 2013 , 114, 234904	2.5	
1	Treatment Planning 2007 , 69-79		