

Michael R Bailey

List of Publications by Citations

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146
papers

5,886
citations

42
h-index

73
g-index

182
ext. papers

6,916
ext. citations

2.6
avg, IF

5.52
L-index

#	Paper	IF	Citations
146	Overview of therapeutic ultrasound applications and safety considerations. <i>Journal of Ultrasound in Medicine</i> , 2012 , 31, 623-34	2.9	333
145	Physical mechanisms of the therapeutic effect of ultrasound (a review). <i>Acoustical Physics</i> , 2003 , 49, 369-388		276
144	Real-time visualization of high-intensity focused ultrasound treatment using ultrasound imaging. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 33-42	3.5	272
143	Acoustic characterization of high intensity focused ultrasound fields: a combined measurement and modeling approach. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, 2406-20	2.2	207
142	Effects of nonlinear propagation, cavitation, and boiling in lesion formation by high intensity focused ultrasound in a gel phantom. <i>Journal of the Acoustical Society of America</i> , 2006 , 119, 1834-48	2.2	205
141	Blood vessel deformations on microsecond time scales by ultrasonic cavitation. <i>Physical Review Letters</i> , 2011 , 106, 034301	7.4	203
140	Shock wave technology and application: an update. <i>European Urology</i> , 2011 , 59, 784-96	10.2	200
139	Cavitation clouds created by shock scattering from bubbles during histotripsy. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 1888-98	2.2	184
138	Cavitation bubble cluster activity in the breakage of kidney stones by lithotripter shockwaves. <i>Journal of Endourology</i> , 2003 , 17, 435-46	2.7	153
137	Shock-induced heating and millisecond boiling in gels and tissue due to high intensity focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 250-67	3.5	141
136	An overview of kidney stone imaging techniques. <i>Nature Reviews Urology</i> , 2016 , 13, 654-662	5.5	126
135	Radiation force of an arbitrary acoustic beam on an elastic sphere in a fluid. <i>Journal of the Acoustical Society of America</i> , 2013 , 133, 661-76	2.2	116
134	Use of overpressure to assess the role of bubbles in focused ultrasound lesion shape in vitro. <i>Ultrasound in Medicine and Biology</i> , 2001 , 27, 695-708	3.5	116
133	Controlled tissue emulsification produced by high intensity focused ultrasound shock waves and millisecond boiling. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 3498-510	2.2	114
132	Effect of overpressure and pulse repetition frequency on cavitation in shock wave lithotripsy. <i>Journal of the Acoustical Society of America</i> , 2002 , 112, 1183-95	2.2	113
131	A mechanistic analysis of stone fracture in lithotripsy. <i>Journal of the Acoustical Society of America</i> , 2007 , 121, 1190-202	2.2	108
130	Hemostasis of punctured blood vessels using high-intensity focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1998 , 24, 903-10	3.5	94

129	Characterization of a multi-element clinical HIFU system using acoustic holography and nonlinear modeling. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 1683-98	3.2	90
128	Kidney Damage and Renal Functional Changes are Minimized by Waveform Control that Suppresses Cavitation in Shock Wave Lithotripsy. <i>Journal of Urology</i> , 2002 , 168, 1556-1562	2.5	86
127	Effect of high-intensity focused ultrasound on whole blood with and without microbubble contrast agent. <i>Ultrasound in Medicine and Biology</i> , 1999 , 25, 991-8	3.5	83
126	A dual passive cavitation detector for localized detection of lithotripsy-induced cavitation in vitro. <i>Journal of the Acoustical Society of America</i> , 2000 , 107, 1745-58	2.2	80
125	Use of a dual-pulse lithotripter to generate a localized and intensified cavitation field. <i>Journal of the Acoustical Society of America</i> , 2001 , 110, 1685-95	2.2	79
124	Ultrasonic atomization of tissue and its role in tissue fractionation by high intensity focused ultrasound. <i>Physics in Medicine and Biology</i> , 2012 , 57, 8061-78	3.8	74
123	Fragmentation of urinary calculi in vitro by burst wave lithotripsy. <i>Journal of Urology</i> , 2015 , 193, 338-44	2.5	73
122	Design and characterization of a research electrohydraulic lithotripter patterned after the Dornier HM3. <i>Review of Scientific Instruments</i> , 2000 , 71, 2514-2525	1.7	73
121	Cavitation detection during shock-wave lithotripsy. <i>Ultrasound in Medicine and Biology</i> , 2005 , 31, 1245-56	3.5	72
120	Histological and biochemical analysis of mechanical and thermal bioeffects in boiling lithotripsy lesions induced by high intensity focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 424-38	3.5	70
119	Comparison of electrohydraulic lithotripters with rigid and pressure-release ellipsoidal reflectors. II. Cavitation fields. <i>Journal of the Acoustical Society of America</i> , 1999 , 106, 1149-60	2.2	69
118	Observations of translation and jetting of ultrasound-activated microbubbles in mesenteric microvessels. <i>Ultrasound in Medicine and Biology</i> , 2011 , 37, 2139-48	3.5	68
117	Disintegration of Tissue Using High Intensity Focused Ultrasound: Two Approaches That Utilize Shock Waves. <i>Acoustics Today</i> , 2012 , 8, 24	0	66
116	The risk of exposure to diagnostic ultrasound in postnatal subjects: nonthermal mechanisms. <i>Journal of Ultrasound in Medicine</i> , 2008 , 27, 565-92; quiz 593-6	2.9	66
115	Blood vessel rupture by cavitation. <i>Urological Research</i> , 2010 , 38, 321-6		65
114	Ultracal-30 gypsum artificial stones for research on the mechanisms of stone breakage in shock wave lithotripsy. <i>Urological Research</i> , 2005 , 33, 429-34		63
113	Ultrasound-guided tissue fractionation by high intensity focused ultrasound in an in vivo porcine liver model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8161-6	11.5	61
112	Magnetic resonance imaging of boiling induced by high intensity focused ultrasound. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, 2420-31	2.2	61

111	Pretreatment with low-energy shock waves induces renal vasoconstriction during standard shock wave lithotripsy (SWL): a treatment protocol known to reduce SWL-induced renal injury. <i>BJU International</i> , 2009 , 103, 1270-4	5.6	59
110	Cavitation selectively reduces the negative-pressure phase of lithotripter shock pulses. <i>Acoustics Research Letters Online: ARLO</i> , 2005 , 6, 280-286		54
109	FOCUSING OF HIGH POWER ULTRASOUND BEAMS AND LIMITING VALUES OF SHOCK WAVE PARAMETERS. <i>Acoustical Physics</i> , 2009 , 55, 463-476	1.1	51
108	Comparison of electrohydraulic lithotripters with rigid and pressure-release ellipsoidal reflectors. I. Acoustic fields. <i>Journal of the Acoustical Society of America</i> , 1998 , 104, 2517-24	2.2	51
107	Design of HIFU Transducers for Generating Specified Nonlinear Ultrasound Fields. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 374-390	3.2	43
106	A DERATING METHOD FOR THERAPEUTIC APPLICATIONS OF HIGH INTENSITY FOCUSED ULTRASOUND. <i>Acoustical Physics</i> , 2010 , 56, 354-363	1.1	43
105	First in Human Clinical Trial of Ultrasonic Propulsion of Kidney Stones. <i>Journal of Urology</i> , 2016 , 195, 956-64	2.5	42
104	Focused ultrasound to expel calculi from the kidney. <i>Journal of Urology</i> , 2012 , 187, 739-43	2.5	40
103	Dual-pulse lithotripter accelerates stone fragmentation and reduces cell lysis in vitro. <i>Ultrasound in Medicine and Biology</i> , 2003 , 29, 1045-52	3.5	39
102	Conditionally Increased Acoustic Pressures in Nonfetal Diagnostic Ultrasound Examinations Without Contrast Agents: A Preliminary Assessment. <i>Journal of Ultrasound in Medicine</i> , 2015 , 34, 1-41	2.9	37
101	Novel ultrasound method to reposition kidney stones. <i>Urological Research</i> , 2010 , 38, 491-5		37
100	B-mode ultrasound versus color Doppler twinkling artifact in detecting kidney stones. <i>Journal of Endourology</i> , 2013 , 27, 149-53	2.7	35
99	Focused ultrasound to expel calculi from the kidney: safety and efficacy of a clinical prototype device. <i>Journal of Urology</i> , 2013 , 190, 1090-5	2.5	34
98	Evidence for trapped surface bubbles as the cause for the twinkling artifact in ultrasound imaging. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 1026-38	3.5	34
97	Quantitative assessment of shockwave lithotripsy accuracy and the effect of respiratory motion. <i>Journal of Endourology</i> , 2012 , 26, 1070-4	2.7	31
96	Effect of macroscopic air bubbles on cell lysis by shock wave lithotripsy in vitro. <i>Ultrasound in Medicine and Biology</i> , 1999 , 25, 473-9	3.5	31
95	Use of the Acoustic Shadow Width to Determine Kidney Stone Size with Ultrasound. <i>Journal of Urology</i> , 2016 , 195, 171-7	2.5	30
94	A Prototype Therapy System for Transcutaneous Application of Boiling Histotripsy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 1542-1557	3.2	29

93	Ultrasonic atomization of liquids in drop-chain acoustic fountains. <i>Journal of Fluid Mechanics</i> , 2015 , 766, 129-146	3.7	29
92	Preclinical safety and effectiveness studies of ultrasonic propulsion of kidney stones. <i>Urology</i> , 2014 , 84, 484-9	1.6	29
91	Prefocal alignment improves stone comminution in shockwave lithotripsy. <i>Journal of Endourology</i> , 2002 , 16, 709-15	2.7	29
90	Noninvasive acoustic manipulation of objects in a living body. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16848-16855	11.5	28
89	A reduced-order, single-bubble cavitation model with applications to therapeutic ultrasound. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 3511-30	2.2	28
88	Focused ultrasonic propulsion of kidney stones: review and update of preclinical technology. <i>Journal of Endourology</i> , 2013 , 27, 1183-6	2.7	26
87	In vitro sonoluminescence and sonochemistry studies with an electrohydraulic shock-wave lithotripter. <i>Ultrasound in Medicine and Biology</i> , 2002 , 28, 1199-207	3.5	25
86	Dependence of Boiling Histotripsy Treatment Efficiency on HIFU Frequency and Focal Pressure Levels. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 1975-1985	3.5	24
85	Comparison of tissue injury from focused ultrasonic propulsion of kidney stones versus extracorporeal shock wave lithotripsy. <i>Journal of Urology</i> , 2014 , 191, 235-41	2.5	23
84	Tools to improve the accuracy of kidney stone sizing with ultrasound. <i>Journal of Endourology</i> , 2015 , 29, 147-52	2.7	23
83	Tissue ablation using high-intensity focused ultrasound in the fetal sheep model: potential for fetal treatment. <i>American Journal of Obstetrics and Gynecology</i> , 2003 , 189, 702-5	6.4	23
82	The relation between cavitation and platelet aggregation during exposure to high-intensity focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 261-9	3.5	21
81	Evaluation of a shock wave induced cavitation activity both in vitro and in vivo. <i>Physics in Medicine and Biology</i> , 2007 , 52, 5933-44	3.8	18
80	Field Characterization and Compensation of Vibrational Nonuniformity for a 256-Element Focused Ultrasound Phased Array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1618-1630	3.2	18
79	Detection and Evaluation of Renal Injury in Burst Wave Lithotripsy Using Ultrasound and Magnetic Resonance Imaging. <i>Journal of Endourology</i> , 2017 , 31, 786-792	2.7	17
78	A method to synchronize high-intensity, focused ultrasound with an arbitrary ultrasound imager. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006 , 53, 645-50	3.2	17
77	Ultrasonic propulsion of kidney stones. <i>Current Opinion in Urology</i> , 2016 , 26, 264-70	2.8	17
76	Targeted microbubbles: a novel application for the treatment of kidney stones. <i>BJU International</i> , 2015 , 116, 9-16	5.6	16

75	Observations of the collapses and rebounds of millimeter-sized lithotripsy bubbles. <i>Journal of the Acoustical Society of America</i> , 2011 , 130, 3531-40	2.2	16
74	Monitoring bubble growth in supersaturated blood and tissue ex vivo and the relevance to marine mammal bioeffects. <i>Acoustics Research Letters Online: ARLO</i> , 2005 , 6, 214-220		16
73	Evaluation of Renal Stone Comminution and Injury by Burst Wave Lithotripsy in a Pig Model. <i>Journal of Endourology</i> , 2019 , 33, 787-792	2.7	15
72	Design of HIFU transducers to generate specific nonlinear ultrasound fields. <i>Physics Procedia</i> , 2016 , 87, 132-138		15
71	Focused ultrasound to displace renal calculi: threshold for tissue injury. <i>Journal of Therapeutic Ultrasound</i> , 2014 , 2, 5		14
70	Pilot in vivo studies on transcutaneous boiling histotripsy in porcine liver and kidney. <i>Scientific Reports</i> , 2019 , 9, 20176	4.9	14
69	Stone-Mode Ultrasound for Determining Renal Stone Size. <i>Journal of Endourology</i> , 2016 , 30, 958-62	2.7	13
68	The role of compressional pressure in the formation of dense bubble clouds in histotripsy 2009 ,		13
67	The use of resonant scattering to identify stone fracture in shock wave lithotripsy. <i>Journal of the Acoustical Society of America</i> , 2007 , 121, EL41-7	2.2	13
66	Kidney Damage and Renal Functional Changes are Minimized by Waveform Control that Suppresses Cavitation in Shock Wave Lithotripsy. <i>Journal of Urology</i> , 2002 , 1556-1562	2.5	13
65	Progress in Lithotripsy Research. <i>Acoustics Today</i> , 2006 , 2, 18	0	12
64	Use of a bovine eye lens for observation of HIFU-induced lesions in real-time. <i>Ultrasound in Medicine and Biology</i> , 2006 , 32, 1731-41	3.5	12
63	Safety and Effectiveness of a Longer Focal Beam and Burst Duration in Ultrasonic Propulsion for Repositioning Urinary Stones and Fragments. <i>Journal of Endourology</i> , 2017 , 31, 793-799	2.7	11
62	Combined Burst Wave Lithotripsy and Ultrasonic Propulsion for Improved Urinary Stone Fragmentation. <i>Journal of Endourology</i> , 2018 , 32, 344-349	2.7	11
61	Quantification of Renal Stone Contrast with Ultrasound in Human Subjects. <i>Journal of Endourology</i> , 2017 , 31, 1123-1130	2.7	11
60	DEVELOPING COMPLETE ULTRASONIC MANAGEMENT OF KIDNEY STONES FOR SPACEFLIGHT. <i>Journal of Space Safety Engineering</i> , 2016 , 3, 50-57	0.9	11
59	Energy shielding by cavitation bubble clouds in burst wave lithotripsy. <i>Journal of the Acoustical Society of America</i> , 2018 , 144, 2952	2.2	11
58	Investigation into the mechanisms of tissue atomization by high-intensity focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1372-85	3.5	10

57	Improved Detection of Kidney Stones Using an Optimized Doppler Imaging Sequence. <i>Ultrasonics Symposium (IUS), 2009 IEEE International</i> , 2014 , 2014, 452-455	0.8	10
56	Retrospective comparison of measured stone size and posterior acoustic shadow width in clinical ultrasound images. <i>World Journal of Urology</i> , 2018 , 36, 727-732	4	10
55	QUANTIFICATION OF ACOUSTIC RADIATION FORCES ON SOLID OBJECTS IN FLUID. <i>Physical Review Applied</i> , 2019 , 12,	4.3	9
54	An acoustically matched high pressure chamber for control of cavitation in shock wave lithotripsy: Mechanisms of shock wave damage in vitro. <i>Cytotechnology</i> , 1998 , 19, 303-310		9
53	A suppressor to prevent direct wave-induced cavitation in shock wave therapy devices. <i>Journal of the Acoustical Society of America</i> , 2005 , 118, 178-85	2.2	9
52	First In-Human Burst Wave Lithotripsy for Kidney Stone Comminution: Initial Two Case Studies. <i>Journal of Endourology</i> , 2021 , 35, 506-511	2.7	9
51	Shock formation and nonlinear saturation effects in the ultrasound field of a diagnostic curvilinear probe. <i>Journal of the Acoustical Society of America</i> , 2017 , 141, 2327	2.2	8
50	Modeling and experimental analysis of acoustic cavitation bubbles for Burst Wave Lithotripsy. <i>Journal of Physics: Conference Series</i> , 2015 , 656,	0.3	8
49	Content and face validation of a curriculum for ultrasonic propulsion of calculi in a human renal model. <i>Journal of Endourology</i> , 2014 , 28, 459-63	2.7	8
48	Edge wave on axis behind an aperture or disk having a ragged edge. <i>Journal of the Acoustical Society of America</i> , 2000 , 107, 103-11	2.2	8
47	Effect of Carbon Dioxide on the Twinkling Artifact in Ultrasound Imaging of Kidney Stones: A Pilot Study. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 877-883	3.5	7
46	Recalcitrant Supraventricular Tachycardia: Occult Albuterol Toxicity Due to a Factitious Disorder. <i>Journal of Emergency Medicine</i> , 2015 , 49, 436-8	1.5	7
45	An investigation of elastic waves producing stone fracture in burst wave lithotripsy. <i>Journal of the Acoustical Society of America</i> , 2020 , 147, 1607	2.2	7
44	Effect of Stone Size and Composition on Ultrasonic Propulsion Ex Vivo. <i>Urology</i> , 2018 , 111, 225-229	1.6	7
43	Quantitative Assessment of Effectiveness of Ultrasonic Propulsion of Kidney Stones. <i>Journal of Endourology</i> , 2019 , 33, 850-857	2.7	7
42	Ultrasonic measurement of condensate film thickness. <i>Journal of the Acoustical Society of America</i> , 2008 , 124, EL196-202	2.2	7
41	Renal Vasoconstriction Occurs Early During Shockwave Lithotripsy in Humans. <i>Journal of Endourology</i> , 2015 , 29, 1392-5	2.7	6
40	Beamwidth measurement of individual lithotripter shock waves. <i>Journal of the Acoustical Society of America</i> , 2009 , 125, 1240-5	2.2	6

39	Acoustic Shielding by Cavitation Bubbles in Shock Wave Lithotripsy (SWL). <i>AIP Conference Proceedings</i> , 2006 ,	0	6
38	Update on clinical trials of kidney stone repositioning and preclinical results of stone breaking with one system. <i>Proceedings of Meetings on Acoustics</i> , 2018 , 35,	1	6
37	Innovations in Ultrasound Technology in the Management of Kidney Stones. <i>Urologic Clinics of North America</i> , 2019 , 46, 273-285	2.9	5
36	Tissue Erosion Using Shock Wave Heating and Millisecond Boiling in HIFU Fields 2010 ,		5
35	Ureteroscopic ultrasound technology to size kidney stone fragments: proof of principle using a miniaturized probe in a porcine model. <i>Journal of Endourology</i> , 2010 , 24, 939-42	2.7	5
34	Measurement of Posterior Acoustic Stone Shadow on Ultrasound Is a Learnable Skill for Inexperienced Users to Improve Accuracy of Stone Sizing. <i>Journal of Endourology</i> , 2018 , 32, 1033-1038	2.7	5
33	Evaluation of Urinary Stone Comminution with a Clinical Burst Wave Lithotripsy System. <i>Journal of Endourology</i> , 2020 , 34, 1167-1173	2.7	4
32	Pulsed focused ultrasound treatment of muscle mitigates paralysis-induced bone loss in the adjacent bone: a study in a mouse model. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 2113-24	3.5	4
31	Characterizing the Acoustic Output of an Ultrasonic Propulsion Device for Urinary Stones. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 1818-1827	3.2	4
30	Focused ultrasound: concept for automated transcuteaneous control of hemorrhage in austere settings. <i>Aviation, Space, and Environmental Medicine</i> , 2009 , 80, 391-4		4
29	Design, fabrication, and characterization of broad beam transducers for fragmenting large renal calculi with burst wave lithotripsy. <i>Journal of the Acoustical Society of America</i> , 2020 , 148, 44	2.2	4
28	The Impact of Dust and Confinement on Fragmentation of Kidney Stones by Shockwave Lithotripsy in Tissue Phantoms. <i>Journal of Endourology</i> , 2019 , 33, 400-406	2.7	4
27	Burst wave lithotripsy and acoustic manipulation of stones. <i>Current Opinion in Urology</i> , 2020 , 30, 149-156	2.8	3
26	Ultrasonic propulsion of kidney stones: preliminary results of human feasibility study. <i>Ultrasonics Symposium (IUS), 2009 IEEE International</i> , 2014 , 2014, 511-514	0.8	3
25	2aBA6. Bubbles trapped on the surface of kidney stones as a cause of the twinkling artifact in ultrasound imaging. <i>Proceedings of Meetings on Acoustics</i> , 2013 , 19,	1	3
24	Bubbles trapped at the coupling surface of the treatment head significantly reduce acoustic energy delivered in shock wave lithotripsy. <i>AIP Conference Proceedings</i> , 2006 ,	0	3
23	Modeling of photoelastic imaging of mechanical stresses in transparent solids mimicking kidney stones. <i>Journal of the Acoustical Society of America</i> , 2020 , 147, 3819	2.2	2
22	Pearl-unjammed: the Seattle stone maneuver for ureteropelvic junction urolithiasis. <i>Journal of the American College of Emergency Physicians Open</i> , 2020 , 1, 252-256	1.6	2

21	Noninvasive ureterocele puncture using pulsed focused ultrasound: an in vitro study. <i>Journal of Endourology</i> , 2014 , 28, 342-6	2.7	2
20	Novel high-intensity focused ultrasound clamp--potential adjunct for laparoscopic partial nephrectomy. <i>Journal of Endourology</i> , 2012 , 26, 1494-9	2.7	2
19	Tissue Atomization by High Intensity Focused Ultrasound. <i>Ultrasonics Symposium (IUS), 2009 IEEE International</i> , 2012 , 2012, 1003-1006	0.8	2
18	Detecting Fragmentation of Kidney Stones in Lithotripsy by Means of Shock Wave Scattering. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
17	Some Work on the Diagnosis and Management of Kidney Stones with Ultrasound. <i>Acoustics Today</i> , 2017 , 13, 52-59	0	2
16	Impact of stone characteristics on cavitation in burst wave lithotripsy. <i>Proceedings of Meetings on Acoustics</i> , 2018 , 35,	1	2
15	Maximizing mechanical stress in small urinary stones during burst wave lithotripsy.. <i>Journal of the Acoustical Society of America</i> , 2021 , 150, 4203	2.2	2
14	1pPAb5. Acoustic radiation force to reposition kidney stones. <i>Proceedings of Meetings on Acoustics</i> , 2013 , 19,	1	1
13	3aBAb5. Ultrasound intensity to propel stones from the kidney is below the threshold for renal injury. <i>Proceedings of Meetings on Acoustics</i> , 2013 , 19,	1	1
12	Interactions of Cavitation Bubbles Observed by High-Speed Imaging in Shock Wave Lithotripsy. <i>AIP Conference Proceedings</i> , 2006 ,	0	1
11	Role of Shear and Longitudinal Waves in Stone Comminution by Lithotripter Shock Waves. <i>AIP Conference Proceedings</i> , 2006 ,	0	1
10	Evidence of Microbubbles on Kidney Stones in Humans. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 1802-1807	3.5	1
9	Focused Ultrasonic Propulsion of Kidney Stones. <i>Videourology (New Rochelle, N Y)</i> , 2013 , 27,	0.9	1
8	DESIGN OF A TRANSDUCER FOR FRAGMENTING LARGE KIDNEY STONES USING BURST WAVE LITHOTRIPSY. <i>Proceedings of Meetings on Acoustics</i> , 2018 , 35,	1	1
7	Summary of "Biomedical Acoustics and Physical Acoustics: Shock Waves and Ultrasound for Calculus Fragmentation". <i>Proceedings of Meetings on Acoustics</i> , 2018 , 35,	1	1
6	Tailoring acoustics and devices for gene therapy: Comment on Shock-wave induced permeabilization of mammalian cells Sby Lopez-Marín et al. <i>Physics of Life Reviews</i> , 2018 , 26-27, 47-48	2.1	1
5	Recent Advances in the Science of Burst Wave Lithotripsy and Ultrasonic Propulsion. <i>BME Frontiers</i> , 2022 , 2022, 1-6	4.4	1
4	Fragmentation of Stones by Burst Wave Lithotripsy in the First 19 Humans.. <i>Journal of Urology</i> , 2022 , 101097JU00000000000002446	2.5	1

3	Simple circumcision device: proof of concept for a single-visit, adjustable device to facilitate safe adult male circumcision. <i>Fertility and Sterility</i> , 2014 , 101, 1266-70	4.8
2	Re: Leapman et al.: Up and Away: Five Decades of Urologic Investigation in Microgravity (Urology 106:18-25). <i>Urology</i> , 2017 , 110, 265-266	1.6
1	Shockwave lithotripsy with renoprotective pause is associated with renovascular vasoconstriction in humans. <i>Ultrasonics Symposium (IUS), 2009 IEEE International</i> , 2014 , 2014, 1013-1016	0.8