

Adam D Maxwell

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.

71
papers

2,011
citations

23
h-index

44
g-index

95
ext. papers

2,569
ext. citations

3.1
avg, IF

4.92
L-index

#	Paper	IF	Citations
71	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
70	Probability of cavitation for single ultrasound pulses applied to tissues and tissue-mimicking materials. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 449-65	3.5	172
69	Noninvasive thrombolysis using pulsed ultrasound cavitation therapy - histotripsy. <i>Ultrasound in Medicine and Biology</i> , 2009 , 35, 1982-94	3.5	159
68	Histotripsy methods in mechanical disintegration of tissue: towards clinical applications. <i>International Journal of Hyperthermia</i> , 2015 , 31, 145-62	3.7	140
67	Noninvasive treatment of deep venous thrombosis using pulsed ultrasound cavitation therapy (histotripsy) in a porcine model. <i>Journal of Vascular and Interventional Radiology</i> , 2011 , 22, 369-77	2.4	117
66	A mechanistic analysis of stone fracture in lithotripsy. <i>Journal of the Acoustical Society of America</i> , 2007 , 121, 1190-202	2.2	108
65	Histotripsy beyond the intrinsic cavitation threshold using very short ultrasound pulses: microtriopsy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 251-65	3.2	85
64	A tissue phantom for visualization and measurement of ultrasound-induced cavitation damage. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 2132-43	3.5	81
63	Effects of ultrasound frequency and tissue stiffness on the histotripsy intrinsic threshold for cavitation. <i>Ultrasound in Medicine and Biology</i> , 2015 , 41, 1651-67	3.5	80
62	Fragmentation of urinary calculi in vitro by burst wave lithotripsy. <i>Journal of Urology</i> , 2015 , 193, 338-44	2.5	73
61	Disintegration of Tissue Using High Intensity Focused Ultrasound: Two Approaches That Utilize Shock Waves. <i>Acoustics Today</i> , 2012 , 8, 24	0	66
60	Caliceal Fluid Temperature During High-Power Holmium Laser Lithotripsy in an In Vivo Porcine Model. <i>Journal of Endourology</i> , 2018 , 32, 724-729	2.7	62
59	For Whom the Bubble Grows: Physical Principles of Bubble Nucleation and Dynamics in Histotripsy Ultrasound Therapy. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 1056-1080	3.5	48
58	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
57	Visualizing the Histotripsy Process: Bubble Cloud-Cancer Cell Interactions in a Tissue-Mimicking Environment. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2466-77	3.5	42
56	Efficacy of histotripsy combined with rt-PA in vitro. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5253-74	3.8	36
55	Rapid prototyping fabrication of focused ultrasound transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1559-74	3.2	31

54	Cavitation-induced damage of soft materials by focused ultrasound bursts: A fracture-based bubble dynamics model. <i>Journal of the Acoustical Society of America</i> , 2016 , 140, 1374	2.2	31
53	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
52	Post Hoc Analysis of Passive Cavitation Imaging for Classification of Histotripsy-Induced Liquefaction in Vitro. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 106-115	11.7	29
51	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
50	Simulation of Laser Lithotripsy-Induced Heating in the Urinary Tract. <i>Journal of Endourology</i> , 2019 , 33, 113-119	2.7	25
49	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
48	Histotripsy Liquefaction of Large Hematomas. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 1491-8	3.5	21
47	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
46	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
45	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
44	Design of HIFU transducers to generate specific nonlinear ultrasound fields. <i>Physics Procedia</i> , 2016 , 87, 132-138		15
43	Pilot in vivo studies on transcutaneous boiling histotripsy in porcine liver and kidney. <i>Scientific Reports</i> , 2019 , 9, 20176	4.9	14
42	The role of compressional pressure in the formation of dense bubble clouds in histotripsy 2009 ,		13
41	Defining Thermally Safe Laser Lithotripsy Power and Irrigation Parameters: Model. <i>Journal of Endourology</i> , 2020 , 34, 76-81	2.7	13
40	Combined Burst Wave Lithotripsy and Ultrasonic Propulsion for Improved Urinary Stone Fragmentation. <i>Journal of Endourology</i> , 2018 , 32, 344-349	2.7	11
39	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
38	In Vitro Thrombolytic Efficacy of Single- and Five-Cycle Histotripsy Pulses and rt-PA. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 336-349	3.5	10
37	Dependence of inertial cavitation induced by high intensity focused ultrasound on transducer -number and nonlinear waveform distortion. <i>Journal of the Acoustical Society of America</i> , 2018 , 144, 1160 ^{2.2}	2.2	10

36	QUANTIFICATION OF ACOUSTIC RADIATION FORCES ON SOLID OBJECTS IN FLUID. <i>Physical Review Applied</i> , 2019 , 12,	4.3	9
35	Why Are Short Pulses More Efficient in Tissue Erosion Using Pulsed Cavitation Ultrasound Therapy (Histotripsy)? 2010 ,		9
34	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
33	Modeling and experimental analysis of acoustic cavitation bubbles for Burst Wave Lithotripsy. <i>Journal of Physics: Conference Series</i> , 2015 , 656,	0.3	8
32	Trapping of embolic particles in a vessel phantom by cavitation-enhanced acoustic streaming. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4927-43	3.8	8
31	PIXUL-ChIP: integrated high-throughput sample preparation and analytical platform for epigenetic studies. <i>Nucleic Acids Research</i> , 2019 , 47, e69	20.1	7
30	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
29	Ultrasound-Induced Bubble Clusters in Tissue-Mimicking Agar Phantoms. <i>Ultrasound in Medicine and Biology</i> , 2017 , 43, 2318-2328	3.5	6
28	Rectified growth of histotripsy bubbles. <i>Proceedings of Meetings on Acoustics</i> , 2013 , 19,	1	6
27	In-vivo study of non-invasive thrombolysis by histotripsy in a porcine model 2009 ,		6
26	Effect of Chilled Irrigation on Caliceal Fluid Temperature and Time to Thermal Injury Threshold During Laser Lithotripsy: Model. <i>Journal of Endourology</i> , 2021 , 35, 700-705	2.7	6
25	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
24	Inertial Cavitation Behaviors Induced by Nonlinear Focused Ultrasound Pulses. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2884-2895	3.2	5
23	Evaluation of Urinary Stone Comminution with a Clinical Burst Wave Lithotripsy System. <i>Journal of Endourology</i> , 2020 , 34, 1167-1173	2.7	4
22	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
21	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
20	Design and Characterization of an Ultrasound Transducer for Combined Histotripsy-Thrombolytic Therapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , PP,	3.2	4
19	Real-time elastography-based monitoring of histotripsy tissue fractionation using color Doppler 2012 ,		3

18	Non-invasive thrombolysis induced by histotripsy pulsed cavitation ultrasound therapy 2008 ,		3
17	A simulated model for fluid and tissue heating during pediatric laser lithotripsy. <i>Journal of Pediatric Urology</i> , 2020 , 16, 626.e1-626.e8	1.5	3
16	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
15	Noninvasive ureterocele puncture using pulsed focused ultrasound: an in vitro study. <i>Journal of Endourology</i> , 2014 , 28, 342-6	2.7	2
14	Some Work on the Diagnosis and Management of Kidney Stones with Ultrasound. <i>Acoustics Today</i> , 2017 , 13, 52-59	0	2
13	Treating Porcine Abscesses with Histotripsy: A Pilot Study. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 603-619	3.5	2
12	Impact of stone characteristics on cavitation in burst wave lithotripsy. <i>Proceedings of Meetings on Acoustics</i> , 2018 , 35,	1	2
11	Factors Affecting Tissue Cavitation during Burst Wave Lithotripsy. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 2286-2295	3.5	2
10	Clot Degradation Under the Action of Histotripsy Bubble Activity and a Lytic Drug. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2942-2952	3.2	2
9	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
8	Investigation of the mechanism of ARFI-based Color Doppler feedback of histotripsy tissue fractionation 2013 ,		1
7	Role of Shear and Longitudinal Waves in Stone Comminution by Lithotripter Shock Waves. <i>AIP Conference Proceedings</i> , 2006 ,	0	1
6	An ultrasonic caliper device for measuring acoustic nonlinearity. <i>Physics Procedia</i> , 2016 , 87, 93-98		1
5	DESIGN OF A TRANSDUCER FOR FRAGMENTING LARGE KIDNEY STONES USING BURST WAVE LITHOTRIPSY. <i>Proceedings of Meetings on Acoustics</i> , 2018 , 35,	1	1
4	An in vivo demonstration of efficacy and acute safety of burst wave lithotripsy using a porcine model. <i>Proceedings of Meetings on Acoustics</i> , 2018 , 35,	1	1
3	Fragmentation of Stones by Burst Wave Lithotripsy in the First 19 Humans.. <i>Journal of Urology</i> , 2022 , 101097JU00000000000002446	2.5	1
2	In Vivo Porcine Aged Deep Vein Thrombosis Model for Testing Ultrasound-based Thrombolysis Techniques. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 3447-3457	3.5	0
1	Focused ultrasound ablation of solid tumors: Feasibility of planning tissue-selective treatments.. <i>Journal of Clinical Oncology</i> , 2020 , 38, e15600-e15600	2.2	

