

# Kenneth B Bader

## List of Publications by Year in descending order

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39  
papers

1,050  
citations

430874

18  
h-index

414414

32  
g-index

47  
all docs

47  
docs citations

47  
times ranked

897  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.5	117
2	Quantitative Frequency-Domain Passive Cavitation Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 177-191.	3.0	113
3	Shaken and Stirred: Mechanisms of Ultrasound-Enhanced Thrombolysis. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 187-196.	1.5	105
4	Gauging the likelihood of stable cavitation from ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2013, 58, 127-144.	3.0	103
5	Broadband Attenuation Measurements of Phospholipid-Shelled Ultrasound Contrast Agents. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 410-421.	1.5	68
6	Sonothrombolysis. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 339-362.	1.6	51
7	Efficacy of histotripsy combined with rt-PA <i>in vitro</i> . <i>Physics in Medicine and Biology</i> , 2016, 61, 5253-5274.	3.0	48
8	Relationship between cavitation and loss of echogenicity from ultrasound contrast agents. <i>Physics in Medicine and Biology</i> , 2013, 58, 6541-6563.	3.0	46
9	<i>Post Hoc</i> : Analysis of Passive Cavitation Imaging for Classification of Histotripsy-Induced Liquefaction <i>in Vitro</i> . <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 106-115.	8.9	39
10	The effect of static pressure on the inertial cavitation threshold. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 728-737.	1.1	32
11	Predicting the growth of nanoscale nuclei by histotripsy pulses. <i>Physics in Medicine and Biology</i> , 2016, 61, 2947-2966.	3.0	26
12	<i>In vitro</i> thrombolytic efficacy of echogenic liposomes loaded with tissue plasminogen activator and octafluoropropane gas. <i>Physics in Medicine and Biology</i> , 2017, 62, 517-538.	3.0	26
13	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.	1.5	26
14	Effect of Frequency-Dependent Attenuation on Predicted Histotripsy Waveforms in Tissue-Mimicking Phantoms. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 1701-1705.	1.5	25
15	Cavitation thresholds of contrast agents in an <i>in vitro</i> human clot model exposed to 120-kHz ultrasound. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 646-653.	1.1	23
16	Thrombolytic efficacy and enzymatic activity of rt-PA-loaded echogenic liposomes. <i>Journal of Thrombosis and Thrombolysis</i> , 2015, 40, 144-155.	2.1	23
17	Experimental validation of a finite-difference model for the prediction of transcranial ultrasound fields based on CT images. <i>Physics in Medicine and Biology</i> , 2012, 57, 8005-8022.	3.0	22
18	The effect of static pressure on the strength of inertial cavitation events. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 2286-2291.	1.1	19

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19	The influence of medium elasticity on the prediction of histotripsy-induced bubble expansion and erythrocyte viability. <i>Physics in Medicine and Biology</i> , 2018, 63, 095010.	3.0	19
20	The influence of gas diffusion on bubble persistence in shock-scattering histotripsy. <i>Journal of the Acoustical Society of America</i> , 2018, 143, EL481-EL486.	1.1	15
21	Assessment of Collaborative Robot (Cobot)-Assisted Histotripsy for Venous Clot Ablation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1220-1228.	4.2	14
22	Design and Characterization of an Ultrasound Transducer for Combined Histotripsy-Thrombolytic Therapy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 156-165.	3.0	11
23	Observation and modulation of the dissolution of histotripsy-induced bubble clouds with high-frame rate plane wave imaging. <i>Physics in Medicine and Biology</i> , 2019, 64, 115012.	3.0	10
24	In vitro assessment of stiffness-dependent histotripsy bubble cloud activity in gel phantoms and blood clots. <i>Physics in Medicine and Biology</i> , 2019, 64, 145019.	3.0	9
25	Assessment of histotripsy-induced liquefaction with diagnostic ultrasound and magnetic resonance imaging <i>in vitro</i> and <i>ex vivo</i> . <i>Physics in Medicine and Biology</i> , 2019, 64, 095023.	3.0	9
26	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.	3.0	9
27	Assessment of histological characteristics, imaging markers, and rt-PA susceptibility of <i>ex vivo</i> venous thrombi. <i>Scientific Reports</i> , 2021, 11, 22805.	3.3	8
28	High Frame Rate Imaging to Enhance the Dissolution of Histotripsy-Induced Bubble Clouds. , 2019, , .		4
29	Estimating the mechanical energy of histotripsy bubble clouds with high frame rate imaging. <i>Physics in Medicine and Biology</i> , 2021, 66, 165004.	3.0	4
30	Ultrasound for Aesthetic Applications. <i>Journal of Ultrasound in Medicine</i> , 2022, 41, 1597-1607.	1.7	4
31	(More than) doubling down: Effective fibrinolysis at a reduced rt-PA dose for catheter-directed thrombolysis combined with histotripsy. <i>PLoS ONE</i> , 2022, 17, e0261567.	2.5	4
32	Effect of Thrombin and Incubation Time on Porcine Whole Blood Clot Elasticity and Recombinant Tissue Plasminogen Activator Susceptibility. <i>Ultrasound in Medicine and Biology</i> , 2022, 48, 1567-1578.	1.5	3
33	MRI -guided transurethral insonation of silica-shell phase-shift emulsions in the prostate with an advanced navigation platform. <i>Medical Physics</i> , 2019, 46, 774-788.	3.0	2
34	Assessment of Chirp-Coded Excitation to Monitor Histotripsy Bubble Clouds. , 2020, , .		2
35	Inertial cavitation threshold dependence on static pressures. <i>Proceedings of Meetings on Acoustics</i> , 2010, , .	0.3	1
36	An In vitro System to Gauge the Thrombolytic Efficacy of Histotripsy and a Lytic Drug. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1

#	ARTICLE	IF	CITATIONS
37	Histotripsy Bubble Cloud Contrast With Chirp-Coded Excitation in Preclinical Models. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 787-794.	3.0	1
38	In Vitro Testing of a Cobot System to Assist Histotripsy Clot Ablation. , 2020, , .		1
39	Development of a hybrid finite difference solution of the Westervelt equation using the fast nearfield method as a boundary condition for focused sources: or microbubble nuclei interaction with histotripsy shockwaves. AIP Conference Proceedings, 2015, , .	0.4	0