James J Choi

List of Publications by Year in descending order

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43 papers	2,227 citations	331670 21 h-index	315739 38 g-index
43 all docs	43 docs citations	43 times ranked	1789 citing authors

#	Article	IF	Citations
1	Passive Cavitation Detection With a Needle Hydrophone Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 233-240.	3.0	4
2	Liposome delivery to the brain with rapid short-pulses of focused ultrasound and microbubbles. Journal of Controlled Release, 2022, 341, 605-615.	9.9	33
3	The relationship between bubble concentration and the acoustic emission energy of separate frequency bands. JASA Express Letters, 2022, 2, .	1.1	1
4	Imaging With Therapeutic Acoustic Waveletsâ€“Short Pulses Enable Acoustic Localization When Time of Arrival is Combined With Delay and Sum. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 178-190.	3.0	8
5	A PZTâ€“PVDF Stacked Transducer for Short-Pulse Ultrasound Therapy and Monitoring. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2164-2171.	3.0	13
6	Modulation of amyloid-Î² aggregation by metal complexes with a dual binding mode and their delivery across the bloodâ€“brain barrier using focused ultrasound. Chemical Science, 2021, 12, 9485-9493.	7.4	12
7	In vivo delivery of a fluorescent FPR2/ALX-targeted probe using focused ultrasound and microbubbles to image activated microglia. RSC Chemical Biology, 2020, 1, 385-389.	4.1	3
8	Angular dependence of the acoustic signal of a microbubble cloud. Journal of the Acoustical Society of America, 2020, 148, 2958-2972.	1.1	6
9	Doppler Passive Acoustic Mapping. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2692-2703.	3.0	3
10	Elastic Deformation of Soft Tissue-Mimicking Materials Using a Single Microbubble and Acoustic Radiation Force. Ultrasound in Medicine and Biology, 2020, 46, 3327-3338.	1.5	12
11	Neuron labeling with rhodamine-conjugated Gd-based MRI contrast agents delivered to the brain via focused ultrasound. Theranostics, 2020, 10, 2659-2674.	10.0	15
12	Displacement of a bubble located at a fluid-viscoelastic medium interface. Journal of the Acoustical Society of America, 2019, 145, EL410-EL416.	1.1	9
13	Rapid Short-pulse Ultrasound Delivers Drugs Uniformly across the Murine Blood-Brain Barrier with Negligible Disruption. Radiology, 2019, 291, 459-466.	7.3	65
14	Acoustic Streaming in a Soft Tissue Microenvironment. Ultrasound in Medicine and Biology, 2019, 45, 208-217.	1.5	12
15	Displacement of a bubble by acoustic radiation force into a fluidâ€“tissue interface. Journal of the Acoustical Society of America, 2018, 143, 2535-2540.	1.1	12
16	The effects of ultrasound parameters and microbubble concentration on acoustic particle palpation. Journal of the Acoustical Society of America, 2018, 144, 796-805.	1.1	7
17	Targeted Delivery of DNAâ€Au Nanoparticles across the Bloodâ€“Brain Barrier Using Focused Ultrasound. ChemMedChem, 2018, 13, 1311-1314.	3.2	27
18	Clustering dynamics of microbubbles exposed to low-pressure 1-MHz ultrasound. Journal of the Acoustical Society of America, 2017, 142, 3135-3146.	1.1	36

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19	Simultaneous Ultrasound Therapy and Monitoring of Microbubble-Seeded Acoustic Cavitation Using a Single-Element Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1234-1244.	3.0	6
20	Rapid short-pulse sequences enhance the spatiotemporal uniformity of acoustically driven microbubble activity during flow conditions. Journal of the Acoustical Society of America, 2016, 140, 2469-2480.	1.1	37
21	Superharmonic microbubble Doppler effect in ultrasound therapy. Physics in Medicine and Biology, 2016, 61, 6154-6171.	3.0	15
22	Acoustic particle palpation for measuring tissue elasticity. Applied Physics Letters, 2015, 107, 223701.	3.3	26
23	Enhancement of Non-Invasive Trans-Membrane Drug Delivery Using Ultrasound and Microbubbles During Physiologically Relevant Flow. Ultrasound in Medicine and Biology, 2015, 41, 2435-2448.	1.5	36
24	Non-invasive and real-time passive acoustic mapping of ultrasound-mediated drug delivery. Physics in Medicine and Biology, 2014, 59, 4861-4877.	3.0	75
25	Exploiting flow to control thein vitrospatiotemporal distribution of microbubble-seeded acoustic cavitation activity in ultrasound therapy. Physics in Medicine and Biology, 2014, 59, 6941-6957.	3.0	37
26	Inertial cavitation to non-invasively trigger and monitor intratumoral release of drug from intravenously delivered liposomes. Journal of Controlled Release, 2014, 178, 101-107.	9.9	73
27	Spatiotemporal evolution of cavitation dynamics exhibited by flowing microbubbles during ultrasound exposure. Journal of the Acoustical Society of America, 2012, 132, 3538-3549.	1.1	60
28	Activation of signaling pathways following localized delivery of systemically administered neurotrophic factors across the bloodâ€“brain barrier using focused ultrasound and microbubbles. Physics in Medicine and Biology, 2012, 57, N65-N81.	3.0	102
29	Noninvasive and Localized Bloodâ€”Brain Barrier Disruption using Focused Ultrasound can be Achieved at Short Pulse Lengths and Low Pulse Repetition Frequencies. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 725-737.	4.3	122
30	Noninvasive and localized neuronal delivery using short ultrasonic pulses and microbubbles. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16539-16544.	7.1	130
31	Microbubble-Size Dependence of Focused Ultrasound-Induced Bloodâ€“Brain Barrier Opening in MiceIn Vivo. IEEE Transactions on Biomedical Engineering, 2010, 57, 145-154.	4.2	217
32	Identifying the Inertial Cavitation Threshold and Skull Effects in a Vessel Phantom Using Focused Ultrasound and Microbubbles. Ultrasound in Medicine and Biology, 2010, 36, 840-852.	1.5	71
33	Molecules of Various Pharmacologically-Relevant Sizes Can Cross the Ultrasound-Induced Blood-Brain Barrier Opening in vivo. Ultrasound in Medicine and Biology, 2010, 36, 58-67.	1.5	170
34	Multi-Modality Safety Assessment of Blood-Brain Barrier Opening Using Focused Ultrasound and Definity Microbubbles: A Short-Term Study. Ultrasound in Medicine and Biology, 2010, 36, 1445-1459.	1.5	137
35	In vivo transcranial cavitation detection during ultrasound-induced blood-brain barrier opening. , 2010, , .		1
36	Identifying the Inertial Cavitation Pressure Threshold and Skull Effects in a Vessel Phantom Using Focused Ultrasound and Microbubbles. , 2010, , .		1

#	Article	IF	Citations
37	In vivotranscranial cavitation threshold detection during ultrasound-induced bloodâ€“brain barrier opening in mice. Physics in Medicine and Biology, 2010, 55, 6141-6155.	3.0	210
38	Qualitative and Quantitative Analysis of Molecular Delivery Through the Ultrasound-Induced Blood-Brain Barrier Opening in Mice. , 2009, , .		1
39	The Dependence of the Ultrasound-Induced Blood-Brain Barrier Opening Characteristics on Microbubble Size In Vivo. , 2009, , .		3
40	Noninvasive and Transient Blood-Brain Barrier Opening in the Hippocampus of Alzheimer's Double Transgenic Mice Using Focused Ultrasound. Ultrasonic Imaging, 2008, 30, 189-200.	2.6	84
41	Delivery of fluorescent dextrans through the ultrasound-induced blood-brain barrier opening in mice. , 2008, , .		0
42	Noninvasive, transcranial and localized opening of the blood-brain barrier using focused ultrasound in mice. Ultrasound in Medicine and Biology, 2007, 33, 95-104.	1.5	331
43	Noninvasive Blood-Brain Barrier Opening in Live Mice. AIP Conference Proceedings, 2006, , .	0.4	4