

# James Jeong Choi

## List of Publications by Year in descending order

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55  
papers

2,713  
citations

236612

25  
h-index

233125

45  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2286  
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.	1.7	4
2	Liposome delivery to the brain with rapid short-pulses of focused ultrasound and microbubbles. Journal of Controlled Release, 2022, 341, 605-615.	4.8	33
3	The relationship between bubble concentration and the acoustic emission energy of separate frequency bands. JASA Express Letters, 2022, 2, .	0.5	1
4	DDEL-06. Drug Delivery to the Pons Using Short-Pulse Focused Ultrasound and Microbubble Exposure for the Treatment of Diffuse Midline Glioma. Neuro-Oncology, 2022, 24, i35-i35.	0.6	0
5	Imaging With Therapeutic Acoustic Wavelets—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.	1.7	8
6	A PZT—PVDF Stacked Transducer for Short-Pulse Ultrasound Therapy and Monitoring. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2164-2171.	1.7	13
7	Modulation of amyloid- $\beta^2$ aggregation by metal complexes with a dual binding mode and their delivery across the blood—brain barrier using focused ultrasound. Chemical Science, 2021, 12, 9485-9493.	3.7	12
8	Quantifying the effects of standing waves within the skull for ultrasound mediated opening of the blood-brain-barrier. , 2021, , .		0
9	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.	2.0	3
10	Angular dependence of the acoustic signal of a microbubble cloud. Journal of the Acoustical Society of America, 2020, 148, 2958-2972.	0.5	6
11	Doppler Passive Acoustic Mapping. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2692-2703.	1.7	3
12	Elastic Deformation of Soft Tissue-Mimicking Materials Using a Single Microbubble and Acoustic Radiation Force. Ultrasound in Medicine and Biology, 2020, 46, 3327-3338.	0.7	12
13	Neuron labeling with rhodamine-conjugated Gd-based MRI contrast agents delivered to the brain via focused ultrasound. Theranostics, 2020, 10, 2659-2674.	4.6	15
14	Displacement of a bubble located at a fluid-viscoelastic medium interface. Journal of the Acoustical Society of America, 2019, 145, EL410-EL416.	0.5	9
15	Rapid Short-pulse Ultrasound Delivers Drugs Uniformly across the Murine Blood-Brain Barrier with Negligible Disruption. Radiology, 2019, 291, 459-466.	3.6	65
16	Acoustic Streaming in a Soft Tissue Microenvironment. Ultrasound in Medicine and Biology, 2019, 45, 208-217.	0.7	12
17	Displacement of a bubble by acoustic radiation force into a fluid—tissue interface. Journal of the Acoustical Society of America, 2018, 143, 2535-2540.	0.5	12
18	The effects of ultrasound parameters and microbubble concentration on acoustic particle palpation. Journal of the Acoustical Society of America, 2018, 144, 796-805.	0.5	7

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19	Targeted Delivery of DNA-Au Nanoparticles across the Blood-Brain Barrier Using Focused Ultrasound. <i>ChemMedChem</i> , 2018, 13, 1311-1314.	1.6	27
20	Tri-Needle Coaxial Electrospray Engineering of Magnetic Polymer Yolk-Shell Particles Possessing Dual-Imaging Modality, Multiagent Compartments, and Trigger Release Potential. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 21485-21495.	4.0	62
21	Clustering dynamics of microbubbles exposed to low-pressure 1-MHz ultrasound. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 3135-3146.	0.5	36
22	Simultaneous Ultrasound Therapy and Monitoring of Microbubble-Seeded Acoustic Cavitation Using a Single-Element Transducer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017, 64, 1234-1244.	1.7	6
23	Notice of Removal: Rapid short-pulse (RaSP) sequences improve the distribution of drug delivery to the brain in vivo. , 2017, , .		1
24	Rapid short-pulse sequences enhance the spatiotemporal uniformity of acoustically driven microbubble activity during flow conditions. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 2469-2480.	0.5	37
25	Superharmonic microbubble Doppler effect in ultrasound therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, 6154-6171.	1.6	15
26	Acoustic particle palpation for measuring tissue elasticity. <i>Applied Physics Letters</i> , 2015, 107, 223701.	1.5	26
27	Enhancement of Non-Invasive Trans-Membrane Drug Delivery Using Ultrasound and Microbubbles During Physiologically Relevant Flow. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 2435-2448.	0.7	36
28	Passive acoustic mapping utilizing optimal beamforming in ultrasound therapy monitoring. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 2573-2585.	0.5	111
29	Non-invasive and real-time passive acoustic mapping of ultrasound-mediated drug delivery. <i>Physics in Medicine and Biology</i> , 2014, 59, 4861-4877.	1.6	75
30	Exploiting flow to control the <i>in vitro</i> spatiotemporal distribution of microbubble-seeded acoustic cavitation activity in ultrasound therapy. <i>Physics in Medicine and Biology</i> , 2014, 59, 6941-6957.	1.6	37
31	Inertial cavitation to non-invasively trigger and monitor intratumoral release of drug from intravenously delivered liposomes. <i>Journal of Controlled Release</i> , 2014, 178, 101-107.	4.8	73
32	Cavitation-enhanced delivery of a replicating oncolytic adenovirus to tumors using focused ultrasound. <i>Journal of Controlled Release</i> , 2013, 169, 40-47.	4.8	56
33	Enhanced Tumor Uptake and Penetration of Virotherapy Using Polymer Stealthing and Focused Ultrasound. <i>Journal of the National Cancer Institute</i> , 2013, 105, 1701-1710.	3.0	98
34	Passive acoustic mapping using optimal beamforming for real-time monitoring of ultrasound therapy. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	9
35	Spatiotemporal evolution of cavitation dynamics exhibited by flowing microbubbles during ultrasound exposure. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 3538-3549.	0.5	60
36	Activation of signaling pathways following localized delivery of systemically administered neurotrophic factors across the blood-brain barrier using focused ultrasound and microbubbles. <i>Physics in Medicine and Biology</i> , 2012, 57, N65-N81.	1.6	102

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37	Ultrasound-Induced Blood-Brain Barrier Opening. Current Pharmaceutical Biotechnology, 2012, 13, 1332-1345.	0.9	142
38	Noninvasive and Localized Blood-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.	2.4	122
39	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.	3.3	130
40	Microbubble-Size Dependence of Focused Ultrasound-Induced Blood-Brain Barrier Opening in Mice In Vivo. IEEE Transactions on Biomedical Engineering, 2010, 57, 145-154.	2.5	217
41	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.	0.7	71
42	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.	0.7	170
43	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.	0.7	137
44	In vivo transcranial cavitation detection during ultrasound-induced blood-brain barrier opening. , 2010, , .		1
45	Identifying the Inertial Cavitation Pressure Threshold and Skull Effects in a Vessel Phantom Using Focused Ultrasound and Microbubbles. , 2010, , .		1
46	Mechanism and Safety at the Threshold of the Blood-Brain Barrier Opening In Vivo. , 2010, , .		1
47	In vivo transcranial cavitation threshold detection during ultrasound-induced blood-brain barrier opening in mice. Physics in Medicine and Biology, 2010, 55, 6141-6155.	1.6	210
48	Molecular imaging through the blood-brain barrier: Safety assessment and parameter dependence. , 2009, , .		1
49	Qualitative and Quantitative Analysis of Molecular Delivery Through the Ultrasound-Induced Blood-Brain Barrier Opening in Mice. , 2009, , .		1
50	Characterization and Optimization of Trans-Blood-Brain Barrier Diffusion In Vivo. , 2009, , .		4
51	The Dependence of the Ultrasound-Induced Blood-Brain Barrier Opening Characteristics on Microbubble Size In Vivo. , 2009, , .		3
52	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.	1.4	84
53	Delivery of fluorescent dextrans through the ultrasound-induced blood-brain barrier opening in mice. , 2008, , .		0
54	Noninvasive, transcranial and localized opening of the blood-brain barrier using focused ultrasound in mice. Ultrasound in Medicine and Biology, 2007, 33, 95-104.	0.7	331

#	ARTICLE	IF	CITATIONS
55	Noninvasive Blood-Brain Barrier Opening in Live Mice. AIP Conference Proceedings, 2006, , .	0.3	4