

James J Choi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12138959/publications.pdf>

Version: 2024-02-01

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	Noninvasive, transcranial and localized opening of the blood-brain barrier using focused ultrasound in mice. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 95-104.	1.5	331
2	Microbubble-Size Dependence of Focused Ultrasound-Induced Blood-Brain Barrier Opening in Mice <i>In Vivo</i> . <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 145-154.	4.2	217
3	<i>In vivo</i> transcranial cavitation threshold detection during ultrasound-induced blood-brain barrier opening in mice. <i>Physics in Medicine and Biology</i> , 2010, 55, 6141-6155.	3.0	210
4	Molecules of Various Pharmacologically-Relevant Sizes Can Cross the Ultrasound-Induced Blood-Brain Barrier Opening <i>in vivo</i> . <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 58-67.	1.5	170
5	Multi-Modality Safety Assessment of Blood-Brain Barrier Opening Using Focused Ultrasound and Definity Microbubbles: A Short-Term Study. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1445-1459.	1.5	137
6	Noninvasive and localized neuronal delivery using short ultrasonic pulses and microbubbles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16539-16544.	7.1	130
7	Noninvasive and Localized Blood-Brain Barrier Disruption using Focused Ultrasound can be Achieved at Short Pulse Lengths and Low Pulse Repetition Frequencies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 725-737.	4.3	122
8	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.	3.0	102
9	Noninvasive and Transient Blood-Brain Barrier Opening in the Hippocampus of Alzheimer's Double Transgenic Mice Using Focused Ultrasound. <i>Ultrasonic Imaging</i> , 2008, 30, 189-200.	2.6	84
10	Non-invasive and real-time passive acoustic mapping of ultrasound-mediated drug delivery. <i>Physics in Medicine and Biology</i> , 2014, 59, 4861-4877.	3.0	75
11	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.	9.9	73
12	Identifying the Inertial Cavitation Threshold and Skull Effects in a Vessel Phantom Using Focused Ultrasound and Microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 840-852.	1.5	71
13	Rapid Short-pulse Ultrasound Delivers Drugs Uniformly across the Murine Blood-Brain Barrier with Negligible Disruption. <i>Radiology</i> , 2019, 291, 459-466.	7.3	65
14	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.	1.1	60
15	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.	3.0	37
16	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.	1.1	37
17	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.	1.5	36
18	Clustering dynamics of microbubbles exposed to low-pressure 1-MHz ultrasound. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 3135-3146.	1.1	36

#	ARTICLE	IF	CITATIONS
19	Liposome delivery to the brain with rapid short-pulses of focused ultrasound and microbubbles. <i>Journal of Controlled Release</i> , 2022, 341, 605-615.	9.9	33
20	Targeted Delivery of DNA-Au Nanoparticles across the Blood-Brain Barrier Using Focused Ultrasound. <i>ChemMedChem</i> , 2018, 13, 1311-1314.	3.2	27
21	Acoustic particle palpation for measuring tissue elasticity. <i>Applied Physics Letters</i> , 2015, 107, 223701.	3.3	26
22	Superharmonic microbubble Doppler effect in ultrasound therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, 6154-6171.	3.0	15
23	Neuron labeling with rhodamine-conjugated Gd-based MRI contrast agents delivered to the brain via focused ultrasound. <i>Theranostics</i> , 2020, 10, 2659-2674.	10.0	15
24	A PZT-PVDF Stacked Transducer for Short-Pulse Ultrasound Therapy and Monitoring. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2164-2171.	3.0	13
25	Displacement of a bubble by acoustic radiation force into a fluid-tissue interface. <i>Journal of the Acoustical Society of America</i> , 2018, 143, 2535-2540.	1.1	12
26	Acoustic Streaming in a Soft Tissue Microenvironment. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 208-217.	1.5	12
27	Elastic Deformation of Soft Tissue-Mimicking Materials Using a Single Microbubble and Acoustic Radiation Force. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 3327-3338.	1.5	12
28	Modulation of amyloid- β aggregation by metal complexes with a dual binding mode and their delivery across the blood-brain barrier using focused ultrasound. <i>Chemical Science</i> , 2021, 12, 9485-9493.	7.4	12
29	Displacement of a bubble located at a fluid-viscoelastic medium interface. <i>Journal of the Acoustical Society of America</i> , 2019, 145, EL410-EL416.	1.1	9
30	Imaging With Therapeutic Acoustic Wavelets-Short Pulses Enable Acoustic Localization When Time of Arrival is Combined With Delay and Sum. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 178-190.	3.0	8
31	The effects of ultrasound parameters and microbubble concentration on acoustic particle palpation. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 796-805.	1.1	7
32	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.	3.0	6
33	Angular dependence of the acoustic signal of a microbubble cloud. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 2958-2972.	1.1	6
34	Noninvasive Blood-Brain Barrier Opening in Live Mice. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	4
35	Passive Cavitation Detection With a Needle Hydrophone Array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 233-240.	3.0	4
36	The Dependence of the Ultrasound-Induced Blood-Brain Barrier Opening Characteristics on Microbubble Size In Vivo. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
37	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
38	Doppler Passive Acoustic Mapping. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2692-2703.	3.0	3
39	Qualitative and Quantitative Analysis of Molecular Delivery Through the Ultrasound-Induced Blood-Brain Barrier Opening in Mice. , 2009, , .		1
40	In vivo transcranial cavitation detection during ultrasound-induced blood-brain barrier opening. , 2010, , .		1
41	Identifying the Inertial Cavitation Pressure Threshold and Skull Effects in a Vessel Phantom Using Focused Ultrasound and Microbubbles. , 2010, , .		1
42	The relationship between bubble concentration and the acoustic emission energy of separate frequency bands. JASA Express Letters, 2022, 2, .	1.1	1
43	Delivery of fluorescent dextrans through the ultrasound-induced blood-brain barrier opening in mice. , 2008, , .		0