

Kullervo Hynynen

List of Publications by Year in descending order

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Version: 2024-02-01

272
papers

26,312
citations

3933

88
h-index

6836

155
g-index

291
all docs

291
docs citations

291
times ranked

10207
citing authors

#	ARTICLE	IF	CITATIONS
1	An Acoustic Measurement Library for Non-Invasive Trans-Rodent Skull Ultrasonic Focusing at High Frequency. IEEE Transactions on Biomedical Engineering, 2022, 69, 2184-2191.	4.2	1
2	An Ultrasound-Guided Hemispherical Phased Array for Microbubble-Mediated Ultrasound Therapy. IEEE Transactions on Biomedical Engineering, 2022, 69, 1776-1787.	4.2	6
3	Neutrophil Recruitment and Leukocyte Response Following Focused Ultrasound and Microbubble Mediated Blood-Brain Barrier Treatments. Focus (American Psychiatric Publishing), 2022, 20, 100-116.	0.8	0
4	High-Pressure Low-Frequency Lateral Mode Phased-Array Transducer System for the Treatment of Deep Vein Thrombosis: An <i>In Vitro</i> Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1088-1099.	3.0	2
5	Targeted Nanoparticle for Co-delivery of HER2 siRNA and a Taxane to Mirror the Standard Treatment of HER2+ Breast Cancer: Efficacy in Breast Tumor and Brain Metastasis. Small, 2022, 18, e2107550.	10.0	23
6	Real-Time Intravital Multiphoton Microscopy to Visualize Focused Ultrasound and Microbubble Treatments to Increase Blood-Brain Barrier Permeability. Journal of Visualized Experiments, 2022, , .	0.3	0
7	Comparing rapid short-pulse to tone burst sonication sequences for focused ultrasound and microbubble-mediated blood-brain barrier permeability enhancement. Journal of Controlled Release, 2021, 329, 696-705.	9.9	6
8	MRI-guided focused ultrasound enhances drug delivery in experimental diffuse intrinsic pontine glioma. Journal of Controlled Release, 2021, 330, 1034-1045.	9.9	38
9	Applications of focused ultrasound in the brain: from thermoablation to drug delivery. Nature Reviews Neurology, 2021, 17, 7-22.	10.1	211
10	Neutrophil recruitment and leukocyte response following focused ultrasound and microbubble mediated blood-brain barrier treatments. Theranostics, 2021, 11, 1655-1671.	10.0	34
11	Role of perivascular and meningeal macrophages in outcome following experimental subarachnoid hemorrhage. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 0271678X2098029.	4.3	29
12	Implementation of a Skull-Conformal Phased Array for Transcranial Focused Ultrasound Therapy. IEEE Transactions on Biomedical Engineering, 2021, 68, 3457-3468.	4.2	20
13	A High-Frequency Phased Array System for Transcranial Ultrasound Delivery in Small Animals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 127-135.	3.0	10
14	Perfusion fixation methods for preclinical biodistribution studies: A comparative assessment using automated image processing. Methods and Applications in Fluorescence, 2021, 9, 017001.	2.3	5
15	Vasculotide restores the blood-brain barrier after focused ultrasound-induced permeability in a mouse model of Alzheimer's disease. International Journal of Medical Sciences, 2021, 18, 482-493.	2.5	12
16	Focused ultrasound neuromodulation. International Review of Neurobiology, 2021, 159, 221-240.	2.0	8
17	Therapeutic Agent Delivery Across the Blood-Brain Barrier Using Focused Ultrasound. Annual Review of Biomedical Engineering, 2021, 23, 89-113.	12.3	34
18	Ultrasound-sensitive nanodroplets achieve targeted neuromodulation. Journal of Controlled Release, 2021, 332, 30-39.	9.9	29

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19	The mechanical potential of ultrasound on nervous tissue. Journal of the Acoustical Society of America, 2021, 149, R11-R12.	1.1	0
20	Sub-millimetre precision of drug delivery in the brain from ultrasound-triggered nanodroplets. Journal of Controlled Release, 2021, 338, 731-741.	9.9	26
21	Systemic AAV6-synapsin-GFP administration results in lower liver biodistribution, compared to AAV1&2 and AAV9, with neuronal expression following ultrasound-mediated brain delivery. Scientific Reports, 2021, 11, 1934.	3.3	12
22	Focused Ultrasound and Microbubbles-Mediated Drug Delivery to Brain Tumor. Pharmaceutics, 2021, 13, 15.	4.5	49
23	MR-guided focused ultrasound enhances delivery of trastuzumab to Her2-positive brain metastases. Science Translational Medicine, 2021, 13, eabj4011.	12.4	82
24	Transgene distribution and immune response after ultrasound delivery of rAAV9 and PHP.B to the brain in a mouse model of amyloidosis. Molecular Therapy - Methods and Clinical Development, 2021, 23, 390-405.	4.1	13
25	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. Journal of Neurosurgery, 2020, 132, 1785-1791.	1.6	62
26	Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery. Molecular Imaging and Biology, 2020, 22, 324-334.	2.6	18
27	Thermal therapy monitoring using elastography. , 2020, , 135-155.		1
28	Ultrafast three-dimensional microbubble imaging <i>in vivo</i> predicts tissue damage volume distributions during nonthermal brain ablation. Theranostics, 2020, 10, 7211-7230.	10.0	36
29	Clinically approved IVIg delivered to the hippocampus with focused ultrasound promotes neurogenesis in a model of Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32691-32700.	7.1	48
30	High-Power Phased-Array Transducer Module for the Construction of a System for the Treatment of Deep Vein Thrombosis. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2710-2716.	3.0	2
31	Novel fractionated ultrashort thermal exposures with MRI-guided focused ultrasound for treating tumors with thermosensitive drugs. Science Advances, 2020, 6, .	10.3	22
32	<sc>Echoâ€Focusing</sc> in Transcranial Focused Ultrasound Thalamotomy for Essential Tremor: A Feasibility Study. Movement Disorders, 2020, 35, 2327-2333.	3.9	23
33	Microbubble formulation influences inflammatory response to focused ultrasound exposure in the brain. Scientific Reports, 2020, 10, 21534.	3.3	20
34	Simultaneous Intravital Optical and Acoustic Monitoring of Ultrasound-Triggered Nanobubble Generation and Extravasation. Nano Letters, 2020, 20, 4512-4519.	9.1	36
35	Ultrasound-Responsive Cavitation Nuclei for Therapy and Drug Delivery. Ultrasound in Medicine and Biology, 2020, 46, 1296-1325.	1.5	193
36	Focused ultrasound as a novel strategy for noninvasive gene delivery to retinal MÃ¼ller glia. Theranostics, 2020, 10, 2982-2999.	10.0	19

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37	Ultrasound-Guided Focused Ultrasound Treatment for Painful Bone Metastases: A Pilot Study. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1455-1463.	1.5	3
38	Localized anesthesia of a specific brain region using ultrasound-responsive barbiturate nanodroplets. <i>Theranostics</i> , 2020, 10, 2849-2858.	10.0	33
39	Investigating the effects of dexamethasone on blood-brain barrier permeability and inflammatory response following focused ultrasound and microbubble exposure. <i>Theranostics</i> , 2020, 10, 1604-1618.	10.0	41
40	Super-resolution Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 865-891.	1.5	253
41	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. <i>Journal of Neurosurgery</i> , 2020, 133, 1002-1009.	1.6	20
42	DDEL-01. ENHANCING DRUG DELIVERY WITH MRgFUS FOR DIFFUSE INTRINSIC PONTINE GLIOMA MODEL. <i>Neuro-Oncology</i> , 2020, 22, iii283-iii283.	1.2	0
43	Novel Treatment Approaches for Brain Tumour from a Bloodâ€‘Brain Barrier Perspective. <i>Handbook of Experimental Pharmacology</i> , 2020, , 1.	1.8	2
44	Safety and efficacy of focused ultrasound induced blood-brain barrier opening, an integrative review of animal and human studies. <i>Journal of Controlled Release</i> , 2019, 309, 25-36.	9.9	85
45	MR-guided Focused Ultrasound Facilitates Sonodynamic Therapy with 5-Aminolevulinic Acid in a Rat Glioma Model. <i>Scientific Reports</i> , 2019, 9, 10465.	3.3	48
46	Resting state functional connectivity changes after MR-guided focused ultrasound mediated blood-brain barrier opening in patients with Alzheimer's disease. <i>NeuroImage</i> , 2019, 200, 275-280.	4.2	46
47	Numerical Simulations of the Nonlinear Interaction of a Bubble Cloud and a High Intensity Focused Ultrasound Field. <i>Acoustics</i> , 2019, 1, 825-836.	1.4	5
48	Glymphatics Visualization after Focused Ultrasoundâ€‘Induced Bloodâ€‘Brain Barrier Opening in Humans. <i>Annals of Neurology</i> , 2019, 86, 975-980.	5.3	80
49	Thermal therapy with a fully electronically steerable HIFU phased array using ultrasound guidance and local harmonic motion monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 67, 1-1.	4.2	11
50	Blood-Brain Barrier Opening in Primary Brain Tumors with Non-invasive MR-Guided Focused Ultrasound: A Clinical Safety and Feasibility Study. <i>Scientific Reports</i> , 2019, 9, 321.	3.3	400
51	MRI-Guided Focused Ultrasound for Targeted Delivery of rAAV to the Brain. <i>Methods in Molecular Biology</i> , 2019, 1950, 177-197.	0.9	36
52	Strategy to enhance transgene expression in proximity of amyloid plaques in a mouse model of Alzheimer's disease. <i>Theranostics</i> , 2019, 9, 8127-8137.	10.0	22
53	First-in-human trial of bloodâ€‘brain barrier opening in amyotrophic lateral sclerosis using MR-guided focused ultrasound. <i>Nature Communications</i> , 2019, 10, 4373.	12.8	312
54	Increasing BBB Permeability via Focused Ultrasound: Current Methods in Preclinical Research. <i>Neuromethods</i> , 2019, , 267-297.	0.3	4

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55	Enhancing Checkpoint Inhibitor Therapy with Ultrasound Stimulated Microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 500-512.	1.5	42
56	Evaluating the safety profile of focused ultrasound and microbubble-mediated treatments to increase blood-brain barrier permeability. <i>Expert Opinion on Drug Delivery</i> , 2019, 16, 129-142.	5.0	54
57	Advances in acoustic monitoring and control of focused ultrasound-mediated increases in blood-brain barrier permeability. <i>British Journal of Radiology</i> , 2019, 92, 20180601.	2.2	25
58	Antidepressant effects of focused ultrasound induced blood-brain-barrier opening. <i>Behavioural Brain Research</i> , 2018, 342, 57-61.	2.2	19
59	Investigating the efficacy of a combination A β -targeted treatment in a mouse model of Alzheimer's disease. <i>Brain Research</i> , 2018, 1678, 138-145.	2.2	28
60	Noninvasive delivery of an A β -synuclein gene silencing vector with magnetic resonance-guided focused ultrasound. <i>Movement Disorders</i> , 2018, 33, 1567-1579.	3.9	49
61	Time course of focused ultrasound effects on A β -amyloid plaque pathology in the TgCRND8 mouse model of Alzheimer's disease. <i>Scientific Reports</i> , 2018, 8, 14061.	3.3	58
62	Microbubble-assisted MRI-guided focused ultrasound for hyperthermia at reduced power levels. <i>International Journal of Hyperthermia</i> , 2018, 35, 599-611.	2.5	13
63	Hyperthermia-induced drug delivery in humans. <i>Nature Biomedical Engineering</i> , 2018, 2, 637-639.	22.5	14
64	Reply to Kovacs et al.: Concerning acute inflammatory response following focused ultrasound and microbubbles in the brain. <i>Theranostics</i> , 2018, 8, 2249-2250.	10.0	23
65	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. <i>Brain</i> , 2018, 141, 3405-3414.	7.6	129
66	An MR-based quantitative intraventricular hemorrhage porcine model for MR-guided focused ultrasound thrombolysis. <i>Child's Nervous System</i> , 2018, 34, 1643-1650.	1.1	7
67	The reduction in treatment efficiency at high acoustic powers during MR-guided transcranial focused ultrasound thalamotomy for Essential Tremor. <i>Medical Physics</i> , 2018, 45, 2925-2936.	3.0	31
68	Brainstem blood brain barrier disruption using focused ultrasound: A demonstration of feasibility and enhanced doxorubicin delivery. <i>Journal of Controlled Release</i> , 2018, 281, 29-41.	9.9	99
69	Preliminary Investigation of Focused Ultrasound-Facilitated Drug Delivery for the Treatment of Leptomeningeal Metastases. <i>Scientific Reports</i> , 2018, 8, 9013.	3.3	27
70	Three-dimensional transcranial microbubble imaging for guiding volumetric ultrasound-mediated blood-brain barrier opening. <i>Theranostics</i> , 2018, 8, 2909-2926.	10.0	100
71	Ultrasound and Microbubble-Mediated Blood-Brain Barrier Disruption for Targeted Delivery of Therapeutics to the Brain. <i>Methods in Molecular Biology</i> , 2018, 1831, 111-119.	0.9	5
72	Blood-brain barrier opening in Alzheimer's disease using MR-guided focused ultrasound. <i>Nature Communications</i> , 2018, 9, 2336.	12.8	618

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73	Angiogenic response of rat hippocampal vasculature to focused ultrasound-mediated increases in blood-brain barrier permeability. <i>Scientific Reports</i> , 2018, 8, 12178.	3.3	25
74	Noninvasive and targeted delivery of therapeutics to the brain using focused ultrasound. <i>Neuropharmacology</i> , 2017, 120, 20-37.	4.1	107
75	To heat or not to heat: Challenges with clinical translation of thermosensitive liposomes. <i>Journal of Controlled Release</i> , 2017, 249, 63-73.	9.9	143
76	Blood-Brain Barrier Closure Time After Controlled Ultrasound-Induced Opening Is Independent of Opening Volume. <i>Journal of Ultrasound in Medicine</i> , 2017, 36, 475-483.	1.7	65
77	Focused ultrasound as a novel strategy for Alzheimer disease therapeutics. <i>Annals of Neurology</i> , 2017, 81, 611-617.	5.3	33
78	Acute effects of focused ultrasound-induced increases in blood-brain barrier permeability on rat microvascular transcriptome. <i>Scientific Reports</i> , 2017, 7, 45657.	3.3	96
79	Design of patient-specific focused ultrasound arrays for non-invasive brain therapy with increased trans-skull transmission and steering range. <i>Physics in Medicine and Biology</i> , 2017, 62, L9-L19.	3.0	20
80	A computerized tablet system for evaluating treatment of essential tremor by magnetic resonance guided focused ultrasound. <i>BMC Neurology</i> , 2017, 17, 74.	1.8	4
81	Magnetic Resonance-Guided High-Intensity-Focused Ultrasound for Palliation of Painful Skeletal Metastases: A Pilot Study. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 570-576.	1.9	20
82	Opening the Blood-Brain Barrier with MR Imaging-guided Focused Ultrasound: Preclinical Testing on a Trans-Human Skull Porcine Model. <i>Radiology</i> , 2017, 282, 123-130.	7.3	91
83	MRI-guided Focused Ultrasound Thalamotomy for Patients with Medically-refractory Essential Tremor. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	10
84	Notice of Removal: MRI-guided focused ultrasound hyperthermia in combination with microbubbles for improved drug delivery at reduced power levels. , 2017, , .		0
85	Acute Inflammatory Response Following Increased Blood-Brain Barrier Permeability Induced by Focused Ultrasound is Dependent on Microbubble Dose. <i>Theranostics</i> , 2017, 7, 3989-4000.	10.0	169
86	Focused Ultrasound Hyperthermia Mediated Drug Delivery Using Thermosensitive Liposomes and Visualized With <i>in vivo</i> Two-Photon Microscopy. <i>Theranostics</i> , 2017, 7, 2718-2731.	10.0	62
87	Investigation of the Safety of Focused Ultrasound-Induced Blood-Brain Barrier Opening in a Natural Canine Model of Aging. <i>Theranostics</i> , 2017, 7, 3573-3584.	10.0	57
88	SCDT-51. INITIAL EXPERIENCE OF BLOOD-BRAIN BARRIER OPENING FOR CHEMOTHERAPEUTIC-DRUG DELIVERY TO BRAIN TUMOURS BY MR-GUIDED FOCUSED ULTRASOUND. <i>Neuro-Oncology</i> , 2017, 19, vi275-vi275.	1.2	7
89	Urinary cytokines/chemokines after magnetic resonance-guided high intensity focused ultrasound for palliative treatment of painful bone metastases. <i>Annals of Palliative Medicine</i> , 2017, 6, 36-54.	1.2	4
90	Registration of human skull computed tomography data to an ultrasound treatment space using a sparse high frequency ultrasound hemispherical array. <i>Medical Physics</i> , 2016, 43, 5063-5071.	3.0	10

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91	Ultrasound-mediated drug delivery. <i>Physics Today</i> , 2016, 69, 30-36.	0.3	4
92	Magnetic resonance-guided high-intensity focused ultrasound combined with radiotherapy for palliation of head and neck cancer—a pilot study. <i>Journal of Therapeutic Ultrasound</i> , 2016, 4, 12.	2.2	13
93	A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. <i>New England Journal of Medicine</i> , 2016, 375, 730-739.	27.0	770
94	Image-guided ultrasound phased arrays are a disruptive technology for non-invasive therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, R206-R248.	3.0	98
95	A multi-frequency sparse hemispherical ultrasound phased array for microbubble-mediated transcranial therapy and simultaneous cavitation mapping. <i>Physics in Medicine and Biology</i> , 2016, 61, 8476-8501.	3.0	57
96	Early treatment of HER2-amplified brain tumors with targeted NK-92 cells and focused ultrasound improves survival. <i>Neuro-Oncology</i> , 2016, 18, 974-981.	1.2	100
97	Microbubble-Assisted Ultrasound for Drug Delivery in the Brain and Central Nervous System. <i>Advances in Experimental Medicine and Biology</i> , 2016, 880, 293-308.	1.6	41
98	Combined Therapeutic and Monitoring Ultrasonic Catheter for Cardiac Ablation Therapies. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 196-207.	1.5	2
99	Focused Ultrasound-Induced Neurogenesis Requires an Increase in Blood-Brain Barrier Permeability. <i>PLoS ONE</i> , 2016, 11, e0159892.	2.5	58
100	Frequency considerations for deep ablation with high-intensity focused ultrasound: A simulation study. <i>Medical Physics</i> , 2015, 42, 4896-4910.	3.0	16
101	Experimental demonstration of passive acoustic imaging in the human skull cavity using CT-based aberration corrections. <i>Medical Physics</i> , 2015, 42, 4385-4400.	3.0	58
102	Quantitative MRI in a non-surgical model of cervical spinal cord injury. <i>NMR in Biomedicine</i> , 2015, 28, 925-936.	2.8	14
103	Focused ultrasound-mediated drug delivery through the blood-brain barrier. <i>Expert Review of Neurotherapeutics</i> , 2015, 15, 477-491.	2.8	181
104	Hyperthermia-mediated doxorubicin release from thermosensitive liposomes using MR-HIFU: Therapeutic effect in rabbit Vx2 tumours. <i>International Journal of Hyperthermia</i> , 2015, 31, 118-133.	2.5	70
105	Microbubbles and Blood-Brain Barrier Opening: A Numerical Study on Acoustic Emissions and Wall Stress Predictions. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1293-1304.	4.2	44
106	Emerging non-cancer applications of therapeutic ultrasound. <i>International Journal of Hyperthermia</i> , 2015, 31, 310-318.	2.5	20
107	Alzheimer Disease in a Mouse Model: MR Imaging-guided Focused Ultrasound Targeted to the Hippocampus Opens the Blood-Brain Barrier and Improves Pathologic Abnormalities and Behavior. <i>Radiology</i> , 2014, 273, 736-745.	7.3	226
108	Simulation study of the effects of near- and far-field heating during focused ultrasound uterine fibroid ablation using an electronically focused phased array: A theoretical analysis of patient safety. <i>Medical Physics</i> , 2014, 41, 072902.	3.0	26

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109	Three-Dimensional Transcranial Ultrasound Imaging of Microbubble Clouds Using a Sparse Hemispherical Array. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1285-1294.	4.2	108
110	Analysis of focused ultrasound-induced blood-brain barrier permeability in a mouse model of Alzheimer's disease using two-photon microscopy. <i>Journal of Controlled Release</i> , 2014, 192, 243-248.	9.9	65
111	A non-surgical model of cervical spinal cord injury induced with focused ultrasound and microbubbles. <i>Journal of Neuroscience Methods</i> , 2014, 235, 92-100.	2.5	18
112	High-Intensity Focused Ultrasound Sonothrombolysis: The Use of Perfluorocarbon Droplets to Achieve Clot Lysis at Reduced Acoustic Power. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 2151-2161.	1.5	58
113	Drug delivery across the blood-brain barrier using focused ultrasound. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 711-721.	5.0	79
114	Intracranial Applications of Magnetic Resonance-guided Focused Ultrasound. <i>Neurotherapeutics</i> , 2014, 11, 593-605.	4.4	55
115	Focused ultrasound delivery of Raman nanoparticles across the blood-brain barrier: Potential for targeting experimental brain tumors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, e1075-e1087.	3.3	77
116	Stimulation of Hippocampal Neurogenesis by Transcranial Focused Ultrasound and Microbubbles in Adult Mice. <i>Brain Stimulation</i> , 2014, 7, 304-307.	1.6	122
117	Interactions between ultrasound stimulated microbubbles and fibrin clots. <i>Applied Physics Letters</i> , 2013, 103, 053701.	3.3	31
118	Transcranial passive acoustic mapping with hemispherical sparse arrays using CT-based skull-specific aberration corrections: a simulation study. <i>Physics in Medicine and Biology</i> , 2013, 58, 4981-5005.	3.0	79
119	Focused Ultrasound Delivers Targeted Immune Cells to Metastatic Brain Tumors. <i>Cancer Research</i> , 2013, 73, 1892-1899.	0.9	160
120	Drug delivery to the brain by focused ultrasound induced blood-brain barrier disruption: Quantitative evaluation of enhanced permeability of cerebral vasculature using two-photon microscopy. <i>Journal of Controlled Release</i> , 2013, 172, 274-280.	9.9	100
121	Transducer design and characterization for dorsal-based ultrasound exposure and two-photon imaging of in vivo blood-brain barrier disruption in a rat model. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013, 60, 1376-1385.	3.0	12
122	Creating Brain Lesions with Low-Intensity Focused Ultrasound with Microbubbles: A Rat Study at Half a Megahertz. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1420-1428.	1.5	24
123	Noninvasive and Targeted Drug Delivery to the Brain Using Focused Ultrasound. <i>ACS Chemical Neuroscience</i> , 2013, 4, 519-526.	3.5	106
124	MR-guided focused ultrasound thalamotomy for essential tremor: a proof-of-concept study. <i>Lancet Neurology</i> , The, 2013, 12, 462-468.	10.2	475
125	Amyloid- β plaque reduction, endogenous antibody delivery and glial activation by brain-targeted, transcranial focused ultrasound. <i>Experimental Neurology</i> , 2013, 248, 16-29.	4.1	265
126	In vivo localized harmonic motion imaging of VX2 tumors. , 2012, , .		0

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127	Cavitation monitoring and passive beamforming using a hemispherical random sparse array. , 2012, , .		2
128	Investigations into the use of MRI-controlled focused ultrasound for hyperthermia-mediated drug delivery. , 2012, , .		0
129	Investigating the interaction between acoustically stimulated microbubbles and fibrin clots. , 2012, , .		6
130	Blood-Brain Barrier: Real-time Feedback-controlled Focused Ultrasound Disruption by Using an Acoustic Emissionsâ€based Controller. Radiology, 2012, 263, 96-106.	7.3	308
131	Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in molecular neurooncology. Neurosurgical Focus, 2012, 32, E3.	2.3	118
132	The use of two-photon microscopy to study the biological effects of focused ultrasound on the brain. Proceedings of SPIE, 2012, , .	0.8	6
133	In Vitro and In Vivo High-Intensity Focused Ultrasound Thrombolysis. Investigative Radiology, 2012, 47, 217-225.	6.2	98
134	Enhanced drug delivery in rabbit VX2 tumours using thermosensitive liposomes and MRI-controlled focused ultrasound hyperthermia. International Journal of Hyperthermia, 2012, 28, 776-787.	2.5	61
135	Improved Anti-Tumor Effect of Liposomal Doxorubicin After Targeted Blood-Brain Barrier Disruption by MRI-Guided Focused Ultrasound in Rat Glioma. Ultrasound in Medicine and Biology, 2012, 38, 1716-1725.	1.5	246
136	Large improvement of the electrical impedance of imaging and high-intensity focused ultrasound (HIFU) phased arrays using multilayer piezoelectric ceramics coupled in lateral mode. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1584-1595.	3.0	13
137	Focused ultrasound for targeted delivery of siRNA and efficient knockdown of Htt expression. Journal of Controlled Release, 2012, 163, 125-129.	9.9	96
138	Enhanced delivery of gold nanoparticles with therapeutic potential into the brain using MRI-guided focused ultrasound. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1133-1142.	3.3	106
139	Targeted Delivery of Self-Complementary Adeno-Associated Virus Serotype 9 to the Brain, Using Magnetic Resonance Imaging-Guided Focused Ultrasound. Human Gene Therapy, 2012, 23, 1144-1155.	2.7	164
140	Ultrasound enhanced drug delivery to the brain and central nervous system. International Journal of Hyperthermia, 2012, 28, 386-396.	2.5	69
141	High-Intensity Focused Ultrasound (HIFU) for Dissolution of Clots in a Rabbit Model of Embolic Stroke. PLoS ONE, 2012, 7, e42311.	2.5	77
142	Investigation of Standing-Wave Formation in a Human Skull for a Clinical Prototype of a Large-Aperture, Transcranial MR-Guided Focused Ultrasound (MRgFUS) Phased Array: An Experimental and Simulation Study. IEEE Transactions on Biomedical Engineering, 2012, 59, 435-444.	4.2	56
143	Simulations and measurements of transcranial low-frequency ultrasound therapy: skull-base heating and effective area of treatment. Physics in Medicine and Biology, 2011, 56, 4661-4683.	3.0	63
144	Ultrasound Insertion Loss of Rat Parietal Bone Appears to Be Proportional to Animal Mass at Submegahertz Frequencies. Ultrasound in Medicine and Biology, 2011, 37, 1930-1937.	1.5	93

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145	Targeted Delivery of Neural Stem Cells to the Brain Using MRI-Guided Focused Ultrasound to Disrupt the Blood-Brain Barrier. PLoS ONE, 2011, 6, e27877.	2.5	234
146	Temperature Change from Oscillating Bubbles within a Capillary Network Induced by Focused Ultrasound. AIP Conference Proceedings, 2011, , .	0.4	0
147	An Investigation of High Intensity Focused Ultrasound Thrombolysis. , 2011, , .		3
148	Focused-Ultrasound Disruption of the Blood-Brain Barrier Using Closely-Timed Short Pulses: Influence of Sonication Parameters and Injection Rate. Ultrasound in Medicine and Biology, 2011, 37, 587-594.	1.5	101
149	Two-Photon Fluorescence Microscopy Study of Cerebrovascular Dynamics in Ultrasound-Induced Bloodâ€”Brain Barrier Opening. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1852-1862.	4.3	116
150	MRlgHIFU: A tool for imageâ€”guided therapeutics. Journal of Magnetic Resonance Imaging, 2011, 34, 482-493.	3.4	63
151	Multi-frequency characterization of the speed of sound and attenuation coefficient for longitudinal transmission of freshly excised human skulls. Physics in Medicine and Biology, 2011, 56, 219-250.	3.0	223
152	Delivery of stem cells to the brain using MRlgFUS. , 2011, , .		0
153	Focused Ultrasound Surgery in Oncology: Overview and Principles. Radiology, 2011, 259, 39-56.	7.3	217
154	Focused ultrasound: crossing barriers to treat Alzheimerâ€™s disease. Therapeutic Delivery, 2011, 2, 281-286.	2.2	6
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