# Kullervo Hynynen

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

245	20,246	78	138
papers	citations	h-index	g-index
291 ext. papers	23,726 ext. citations	<b>6.2</b> avg, IF	7.15 L-index

#	Paper	IF	Citations
245	Neutrophil Recruitment and Leukocyte Response Following Focused Ultrasound and Microbubble Mediated Blood-Brain Barrier Treatments. <i>Focus (American Psychiatric Publishing)</i> , <b>2022</b> , 20, 100-116	1.1	
244	High-pressure Low-frequency Lateral Mode Phased-array Transducer System for the Treatment of Deep Vein Thrombosis: an in vitro study <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2022</b> , PP,	3.2	1
243	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 <i>Small</i> , <b>2022</b> , e21075	5 <del>50</del>	4
242	Biophysical and Clinical Perspectives on Blood-Brain Barrier Permeability Enhancement by Ultrasound and Microbubbles for Targeted Drug Delivery. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , <b>2022</b> , 577-605	0.5	
241	Novel Treatment Approaches for Brain Tumour from a Blood-Brain Barrier Perspective. <i>Handbook of Experimental Pharmacology</i> , <b>2021</b> , 1	3.2	1
240	An Ultrasound-Guided Hemispherical Phased Array for Microbubble-Mediated Ultrasound Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , PP,	5	1
239	MR-guided focused ultrasound enhances delivery of trastuzumab to Her2-positive brain metastases. <i>Science Translational Medicine</i> , <b>2021</b> , 13, eabj4011	17.5	19
238	Transgene distribution and immune response after ultrasound delivery of rAAV9 and PHP.B to the brain in a mouse model of amyloidosis. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2021</b> , 23, 390-405	6.4	1
237	Therapeutic Agent Delivery Across the Blood-Brain Barrier Using Focused Ultrasound. <i>Annual Review of Biomedical Engineering</i> , <b>2021</b> , 23, 89-113	12	9
236	Ultrasound-sensitive nanodroplets achieve targeted neuromodulation. <i>Journal of Controlled Release</i> , <b>2021</b> , 332, 30-39	11.7	8
235	The mechanical potential of ultrasound on nervous tissue. <i>Journal of the Acoustical Society of America</i> , <b>2021</b> , 149, R11	2.2	
234	Comparing rapid short-pulse to tone burst sonication sequences for focused ultrasound and microbubble-mediated blood-brain barrier permeability enhancement. <i>Journal of Controlled Release</i> , <b>2021</b> , 329, 696-705	11.7	1
233	MRI-guided focused ultrasound enhances drug delivery in experimental diffuse intrinsic pontine glioma. <i>Journal of Controlled Release</i> , <b>2021</b> , 330, 1034-1045	11.7	10
232	Applications of focused ultrasound in the brain: from thermoablation to drug delivery. <i>Nature Reviews Neurology</i> , <b>2021</b> , 17, 7-22	15	49
231	Neutrophil recruitment and leukocyte response following focused ultrasound and microbubble mediated blood-brain barrier treatments. <i>Theranostics</i> , <b>2021</b> , 11, 1655-1671	12.1	14
230	Role of perivascular and meningeal macrophages in outcome following experimental subarachnoid hemorrhage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 1842-1857	7.3	6
229	Implementation of a Skull-Conformal Phased Array for Transcranial Focused Ultrasound Therapy. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 3457-3468	5	2

### (2020-2021)

228	A High-Frequency Phased Array System for Transcranial Ultrasound Delivery in Small Animals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 127-135	3.2	Ο
227	Vasculotide restores the blood-brain barrier after focused ultrasound-induced permeability in a mouse model of Alzheimer's disease. <i>International Journal of Medical Sciences</i> , <b>2021</b> , 18, 482-493	3.7	6
226	Focused ultrasound neuromodulation. International Review of Neurobiology, 2021, 159, 221-240	4.4	1
225	Sub-millimetre precision of drug delivery in the brain from ultrasound-triggered nanodroplets. Journal of Controlled Release, 2021, 338, 731-741	11.7	O
224	Systemic AAV6-synapsin-GFP administration results in lower liver biodistribution, compared to AAV1&2 and AAV9, with neuronal expression following ultrasound-mediated brain delivery. <i>Scientific Reports</i> , <b>2021</b> , 11, 1934	4.9	3
223	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> , <b>2020</b> , 67, 1854-1862	5	5
222	Microbubble formulation influences inflammatory response to focused ultrasound exposure in the brain. <i>Scientific Reports</i> , <b>2020</b> , 10, 21534	4.9	6
221	Simultaneous Intravital Optical and Acoustic Monitoring of Ultrasound-Triggered Nanobubble Generation and Extravasation. <i>Nano Letters</i> , <b>2020</b> , 20, 4512-4519	11.5	14
220	Ultrasound-Responsive Cavitation Nuclei for Therapy and Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 1296-1325	3.5	75
219	Focused ultrasound as a novel strategy for noninvasive gene delivery to retinal M <b>l</b> ler glia. <i>Theranostics</i> , <b>2020</b> , 10, 2982-2999	12.1	7
218	Ultrasound-Guided Focused Ultrasound Treatment for Painful Bone Metastases: A Pilot Study. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 1455-1463	3.5	1
217	Localized anesthesia of a specific brain region using ultrasound-responsive barbiturate nanodroplets. <i>Theranostics</i> , <b>2020</b> , 10, 2849-2858	12.1	11
216	Investigating the effects of dexamethasone on blood-brain barrier permeability and inflammatory response following focused ultrasound and microbubble exposure. <i>Theranostics</i> , <b>2020</b> , 10, 1604-1618	12.1	21
215	Super-resolution Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , <b>2020</b> , 46, 865-891	3.5	83
214	Focused Ultrasound and Microbubbles-Mediated Drug Delivery to Brain Tumor. <i>Pharmaceutics</i> , <b>2020</b> , 13,	6.4	21
213	DDEL-01. ENHANCING DRUG DELIVERY WITH MRgFUS FOR DIFFUSE INTRINSIC PONTINE GLIOMA MODEL. <i>Neuro-Oncology</i> , <b>2020</b> , 22, iii283-iii283	1	78
212	Thermal therapy monitoring using elastography <b>2020</b> , 135-155		1
211	Ultrafast three-dimensional microbubble imaging predicts tissue damage volume distributions during nonthermal brain ablation. <i>Theranostics</i> , <b>2020</b> , 10, 7211-7230	12.1	12

210	Clinically approved IVIg delivered to the hippocampus with focused ultrasound promotes neurogenesis in a model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 32691-32700	11.5	17
209	High-Power Phased-Array Transducer Module for the Construction of a System for the Treatment of Deep Vein Thrombosis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 2710-2716	3.2	2
208	Novel fractionated ultrashort thermal exposures with MRI-guided focused ultrasound for treating tumors with thermosensitive drugs. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	11
207	Echo-Focusing in Transcranial Focused Ultrasound Thalamotomy for Essential Tremor: A Feasibility Study. <i>Movement Disorders</i> , <b>2020</b> , 35, 2327-2333	7	8
206	Transcranial Photoacoustic Detection of Blood-Brain Barrier Disruption Following Focused Ultrasound-Mediated Nanoparticle Delivery. <i>Molecular Imaging and Biology</i> , <b>2020</b> , 22, 324-334	3.8	9
205	Perfusion fixation methods for preclinical biodistribution studies: A comparative assessment using automated image processing. <i>Methods and Applications in Fluorescence</i> , <b>2020</b> ,	3.1	2
204	Glymphatics Visualization after Focused Ultrasound-Induced Blood-Brain Barrier Opening in Humans. <i>Annals of Neurology</i> , <b>2019</b> , 86, 975-980	9.4	55
203	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> , <b>2019</b> , 9, 321	4.9	233
202	MRI-Guided Focused Ultrasound for Targeted Delivery of rAAV to the Brain. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1950, 177-197	1.4	20
201	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> , <b>2019</b> , 309, 25-36	11.7	40
200	MR-guided Focused Ultrasound Facilitates Sonodynamic Therapy with 5-Aminolevulinic Acid in a Rat Glioma Model. <i>Scientific Reports</i> , <b>2019</b> , 9, 10465	4.9	21
199	Resting state functional connectivity changes after MR-guided focused ultrasound mediated blood-brain barrier opening in patients with Alzheimer's disease. <i>NeuroImage</i> , <b>2019</b> , 200, 275-280	7.9	29
198	Numerical Simulations of the Nonlinear Interaction of a Bubble Cloud and a High Intensity Focused Ultrasound Field. <i>Acoustics</i> , <b>2019</b> , 1, 825-836	2	3
197	Tractography-based targeting of the ventral intermediate nucleus: accuracy and clinical utility in MRgFUS thalamotomy. <i>Journal of Neurosurgery</i> , <b>2019</b> , 1-8	3.2	16
196	Strategy to enhance transgene expression in proximity of amyloid plaques in a mouse model of Alzheimer's disease. <i>Theranostics</i> , <b>2019</b> , 9, 8127-8137	12.1	13
195	First-in-human trial of blood-brain barrier opening in amyotrophic lateral sclerosis using MR-guided focused ultrasound. <i>Nature Communications</i> , <b>2019</b> , 10, 4373	17.4	160
194	Increasing BBB Permeability via Focused Ultrasound: Current Methods in Preclinical Research. <i>Neuromethods</i> , <b>2019</b> , 267-297	0.4	3
193	Enhancing Checkpoint Inhibitor Therapy with Ultrasound Stimulated Microbubbles. <i>Ultrasound in Medicine and Biology</i> , <b>2019</b> , 45, 500-512	3.5	27

## (2018-2019)

192	Evaluating the safety profile of focused ultrasound and microbubble-mediated treatments to increase blood-brain barrier permeability. <i>Expert Opinion on Drug Delivery</i> , <b>2019</b> , 16, 129-142	8	34
191	Advances in acoustic monitoring and control of focused ultrasound-mediated increases in blood-brain barrier permeability. <i>British Journal of Radiology</i> , <b>2019</b> , 92, 20180601	3.4	19
190	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. <i>Journal of Neurosurgery</i> , <b>2019</b> , 132, 1785-1791	3.2	36
189	Antidepressant effects of focused ultrasound induced blood-brain-barrier opening. <i>Behavioural Brain Research</i> , <b>2018</b> , 342, 57-61	3.4	13
188	Investigating the efficacy of a combination Altargeted treatment in a mouse model of Alzheimer's disease. <i>Brain Research</i> , <b>2018</b> , 1678, 138-145	3.7	21
187	Three-dimensional transcranial microbubble imaging for guiding volumetric ultrasound-mediated blood-brain barrier opening. <i>Theranostics</i> , <b>2018</b> , 8, 2909-2926	12.1	75
186	Ultrasound and Microbubble-Mediated Blood-Brain Barrier Disruption for Targeted Delivery of Therapeutics to the Brain. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1831, 111-119	1.4	4
185	Blood-brain barrier opening in Alzheimer's disease using MR-guided focused ultrasound. <i>Nature Communications</i> , <b>2018</b> , 9, 2336	17.4	368
184	Angiogenic response of rat hippocampal vasculature to focused ultrasound-mediated increases in blood-brain barrier permeability. <i>Scientific Reports</i> , <b>2018</b> , 8, 12178	4.9	20
183	Noninvasive delivery of an Esynuclein gene silencing vector with magnetic resonance-guided focused ultrasound. <i>Movement Disorders</i> , <b>2018</b> , 33, 1567-1579	7	37
182	Time course of focused ultrasound effects on Emyloid plaque pathology in the TgCRND8 mouse model of Alzheimer's disease. <i>Scientific Reports</i> , <b>2018</b> , 8, 14061	4.9	29
181	Microbubble-assisted MRI-guided focused ultrasound for hyperthermia at reduced power levels. <i>International Journal of Hyperthermia</i> , <b>2018</b> , 35, 599-611	3.7	8
180	Hyperthermia-induced drug delivery in humans. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 637-639	19	10
179	Reply to Kovacs .: Concerning acute inflammatory response following focused ultrasound and microbubbles in the brain. <i>Theranostics</i> , <b>2018</b> , 8, 2249-2250	12.1	21
178	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. <i>Brain</i> , <b>2018</b> , 141, 3405-3414	11.2	84
177	An MR-based quantitative intraventricular hemorrhage porcine model for MR-guided focused ultrasound thrombolysis. <i>Childls Nervous System</i> , <b>2018</b> , 34, 1643-1650	1.7	6
176	The reduction in treatment efficiency at high acoustic powers during MR-guided transcranial focused ultrasound thalamotomy for Essential Tremor. <i>Medical Physics</i> , <b>2018</b> , 45, 2925-2936	4.4	26
175	Brainstem blood brain barrier disruption using focused ultrasound: A demonstration of feasibility and enhanced doxorubicin delivery. <i>Journal of Controlled Release</i> , <b>2018</b> , 281, 29-41	11.7	58

174	Preliminary Investigation of Focused Ultrasound-Facilitated Drug Delivery for the Treatment of Leptomeningeal Metastases. <i>Scientific Reports</i> , <b>2018</b> , 8, 9013	4.9	20
173	Noninvasive and targeted delivery of therapeutics to the brain using focused ultrasound. <i>Neuropharmacology</i> , <b>2017</b> , 120, 20-37	5.5	75
172	To heat or not to heat: Challenges with clinical translation of thermosensitive liposomes. <i>Journal of Controlled Release</i> , <b>2017</b> , 249, 63-73	11.7	108
171	Blood-Brain Barrier Closure Time After Controlled Ultrasound-Induced Opening Is Independent of Opening Volume. <i>Journal of Ultrasound in Medicine</i> , <b>2017</b> , 36, 475-483	2.9	43
170	Focused ultrasound as a novel strategy for Alzheimer disease therapeutics. <i>Annals of Neurology</i> , <b>2017</b> , 81, 611-617	9.4	19
169	Acute effects of focused ultrasound-induced increases in blood-brain barrier permeability on rat microvascular transcriptome. <i>Scientific Reports</i> , <b>2017</b> , 7, 45657	4.9	67
168	Acute Inflammatory Response Following Increased Blood-Brain Barrier Permeability Induced by Focused Ultrasound is Dependent on Microbubble Dose. <i>Theranostics</i> , <b>2017</b> , 7, 3989-4000	12.1	119
167	Focused Ultrasound Hyperthermia Mediated Drug Delivery Using Thermosensitive Liposomes and Visualized With Two-Photon Microscopy. <i>Theranostics</i> , <b>2017</b> , 7, 2718-2731	12.1	46
166	Investigation of the Safety of Focused Ultrasound-Induced Blood-Brain Barrier Opening in a Natural Canine Model of Aging. <i>Theranostics</i> , <b>2017</b> , 7, 3573-3584	12.1	44
165	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> , <b>2017</b> , 19, vi275-vi275	1	5
164	Urinary cytokines/chemokines after magnetic resonance-guided high intensity focused ultrasound for palliative treatment of painful bone metastases. <i>Annals of Palliative Medicine</i> , <b>2017</b> , 6, 36-54	1.7	3
163	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> , <b>2017</b> , 62, L9-L19	3.8	16
162	A computerized tablet system for evaluating treatment of essential tremor by magnetic resonance guided focused ultrasound. <i>BMC Neurology</i> , <b>2017</b> , 17, 74	3.1	2
161	Magnetic Resonance-Guided High-Intensity-Focused Ultrasound for Palliation of Painful Skeletal Metastases: A Pilot Study. <i>Technology in Cancer Research and Treatment</i> , <b>2017</b> , 16, 570-576	2.7	17
160	Opening the Blood-Brain Barrier with MR Imaging-guided Focused Ultrasound: Preclinical Testing on a Trans-Human Skull Porcine Model. <i>Radiology</i> , <b>2017</b> , 282, 123-130	20.5	65
159	MRI-guided Focused Ultrasound Thalamotomy for Patients with Medically-refractory Essential Tremor. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	8
158	A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. <i>New England Journal of Medicine</i> , <b>2016</b> , 375, 730-9	59.2	522
157	Image-guided ultrasound phased arrays are a disruptive technology for non-invasive therapy. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, R206-48	3.8	65

#### (2014-2016)

156	A multi-frequency sparse hemispherical ultrasound phased array for microbubble-mediated transcranial therapy and simultaneous cavitation mapping. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 8476-8501	3.8	43
155	Early treatment of HER2-amplified brain tumors with targeted NK-92 cells and focused ultrasound improves survival. <i>Neuro-Oncology</i> , <b>2016</b> , 18, 974-81	1	73
154	Microbubble-Assisted Ultrasound for Drug Delivery in the Brain and Central Nervous System. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 880, 293-308	3.6	32
153	Combined Therapeutic and Monitoring Ultrasonic Catheter for Cardiac Ablation Therapies. <i>Ultrasound in Medicine and Biology</i> , <b>2016</b> , 42, 196-207	3.5	2
152	Focused Ultrasound-Induced Neurogenesis Requires an Increase in Blood-Brain Barrier Permeability. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159892	3.7	40
151	Registration of human skull computed tomography data to an ultrasound treatment space using a sparse high frequency ultrasound hemispherical array. <i>Medical Physics</i> , <b>2016</b> , 43, 5063	4.4	4
150	Ultrasound-mediated drug delivery. <i>Physics Today</i> , <b>2016</b> , 69, 30-36	0.9	4
149	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> , <b>2016</b> , 4, 12		10
148	Emerging non-cancer applications of therapeutic ultrasound. <i>International Journal of Hyperthermia</i> , <b>2015</b> , 31, 310-8	3.7	12
147	Frequency considerations for deep ablation with high-intensity focused ultrasound: A simulation study. <i>Medical Physics</i> , <b>2015</b> , 42, 4896-10	4.4	12
146	Experimental demonstration of passive acoustic imaging in the human skull cavity using CT-based aberration corrections. <i>Medical Physics</i> , <b>2015</b> , 42, 4385-400	4.4	45
145	Quantitative MRI in a non-surgical model of cervical spinal cord injury. <i>NMR in Biomedicine</i> , <b>2015</b> , 28, 925-36	4.4	13
144	Focused ultrasound-mediated drug delivery through the blood-brain barrier. <i>Expert Review of Neurotherapeutics</i> , <b>2015</b> , 15, 477-91	4.3	129
143	Hyperthermia-mediated doxorubicin release from thermosensitive liposomes using MR-HIFU: therapeutic effect in rabbit Vx2 tumours. <i>International Journal of Hyperthermia</i> , <b>2015</b> , 31, 118-33	3.7	66
142	Microbubbles and blood-brain barrier opening: a numerical study on acoustic emissions and wall stress predictions. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 1293-304	5	36
141	Three-dimensional transcranial ultrasound imaging of microbubble clouds using a sparse hemispherical array. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 1285-94	5	84
140	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> , <b>2014</b> , 192, 243-8	11.7	54
139	A non-surgical model of cervical spinal cord injury induced with focused ultrasound and microbubbles. <i>Journal of Neuroscience Methods</i> , <b>2014</b> , 235, 92-100	3	14

138	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> , <b>2014</b> , 40, 2151-61	3.5	36
137	Drug delivery across the blood-brain barrier using focused ultrasound. <i>Expert Opinion on Drug Delivery</i> , <b>2014</b> , 11, 711-21	8	55
136	Intracranial applications of magnetic resonance-guided focused ultrasound. <i>Neurotherapeutics</i> , <b>2014</b> , 11, 593-605	6.4	43
135	Focused ultrasound delivery of Raman nanoparticles across the blood-brain barrier: potential for targeting experimental brain tumors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 1075-87	6	64
134	Stimulation of hippocampal neurogenesis by transcranial focused ultrasound and microbubbles in adult mice. <i>Brain Stimulation</i> , <b>2014</b> , 7, 304-7	5.1	97
133	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> , <b>2014</b> , 273, 736-45	20.5	166
132	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> , <b>2014</b> , 41, 072902	4.4	17
131	Interactions between ultrasound stimulated microbubbles and fibrin clots. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 053701	3.4	27
130	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> , <b>2013</b> , 58, 4981	-5085	67
129	Focused ultrasound delivers targeted immune cells to metastatic brain tumors. <i>Cancer Research</i> , <b>2013</b> , 73, 1892-9	10.1	137
128	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> , <b>2013</b> , 172, 274-280	11.7	86
127	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> , <b>2013</b> , 60, 1376-85	3.2	8
126	Creating brain lesions with low-intensity focused ultrasound with microbubbles: a rat study at half a megahertz. <i>Ultrasound in Medicine and Biology</i> , <b>2013</b> , 39, 1420-8	3.5	20
125	Noninvasive and targeted drug delivery to the brain using focused ultrasound. <i>ACS Chemical Neuroscience</i> , <b>2013</b> , 4, 519-26	5.7	82
124	MR-guided focused ultrasound thalamotomy for essential tremor: a proof-of-concept study. <i>Lancet Neurology, The</i> , <b>2013</b> , 12, 462-8	24.1	401
123	Amyloid-plaque reduction, endogenous antibody delivery and glial activation by brain-targeted, transcranial focused ultrasound. <i>Experimental Neurology</i> , <b>2013</b> , 248, 16-29	5.7	190
122	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. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 435-44	5	51
121	Enhanced drug delivery in rabbit VX2 tumours using thermosensitive liposomes and MRI-controlled focused ultrasound hyperthermia. <i>International Journal of Hyperthermia</i> , <b>2012</b> , 28, 776-87	3.7	58

120	Improved anti-tumor effect of liposomal doxorubicin after targeted blood-brain barrier disruption by MRI-guided focused ultrasound in rat glioma. <i>Ultrasound in Medicine and Biology</i> , <b>2012</b> , 38, 1716-25	3.5	199
119	Large improvement of the electrical impedance of imaging and high-intensity focused ultrasound (HIFU) phased arrays using multilayer piezoelectric ceramics coupled in lateral mode. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 1584-95	3.2	12
118	Focused ultrasound for targeted delivery of siRNA and efficient knockdown of Htt expression. Journal of Controlled Release, <b>2012</b> , 163, 125-9	11.7	81
117	Enhanced delivery of gold nanoparticles with therapeutic potential into the brain using MRI-guided focused ultrasound. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 1133-42	6	89
116	Targeted delivery of self-complementary adeno-associated virus serotype 9 to the brain, using magnetic resonance imaging-guided focused ultrasound. <i>Human Gene Therapy</i> , <b>2012</b> , 23, 1144-55	4.8	123
115	Ultrasound enhanced drug delivery to the brain and central nervous system. <i>International Journal of Hyperthermia</i> , <b>2012</b> , 28, 386-96	3.7	51
114	High-intensity focused ultrasound (HIFU) for dissolution of clots in a rabbit model of embolic stroke. <i>PLoS ONE</i> , <b>2012</b> , 7, e42311	3.7	62
113	Cavitation monitoring and passive beamforming using a hemispherical random sparse array 2012,		2
112	Investigating the interaction between acoustically stimulated microbubbles and fibrin clots 2012,		6
111	Blood-brain barrier: real-time feedback-controlled focused ultrasound disruption by using an acoustic emissions-based controller. <i>Radiology</i> , <b>2012</b> , 263, 96-106	20.5	241
111	· · · · · · · · · · · · · · · · · · ·	20.5	92
	acoustic emissions-based controller. <i>Radiology</i> , <b>2012</b> , 263, 96-106  Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in		<u>'</u>
110	acoustic emissions-based controller. <i>Radiology</i> , <b>2012</b> , 263, 96-106  Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in molecular neurooncology. <i>Neurosurgical Focus</i> , <b>2012</b> , 32, E3  The use of two-photon microscopy to study the biological effects of focused ultrasound on the		92
110	acoustic emissions-based controller. <i>Radiology</i> , <b>2012</b> , 263, 96-106  Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in molecular neurooncology. <i>Neurosurgical Focus</i> , <b>2012</b> , 32, E3  The use of two-photon microscopy to study the biological effects of focused ultrasound on the brain <b>2012</b> ,  In vitro and in vivo high-intensity focused ultrasound thrombolysis. <i>Investigative Radiology</i> , <b>2012</b> ,	4.2	92
110	acoustic emissions-based controller. <i>Radiology</i> , <b>2012</b> , 263, 96-106  Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in molecular neurooncology. <i>Neurosurgical Focus</i> , <b>2012</b> , 32, E3  The use of two-photon microscopy to study the biological effects of focused ultrasound on the brain <b>2012</b> ,  In vitro and in vivo high-intensity focused ultrasound thrombolysis. <i>Investigative Radiology</i> , <b>2012</b> , 47, 217-25  Simulations and measurements of transcranial low-frequency ultrasound therapy: skull-base	4.2	92 6 82
110 109 108	Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in molecular neurooncology. <i>Neurosurgical Focus</i> , <b>2012</b> , 32, E3  The use of two-photon microscopy to study the biological effects of focused ultrasound on the brain <b>2012</b> ,  In vitro and in vivo high-intensity focused ultrasound thrombolysis. <i>Investigative Radiology</i> , <b>2012</b> , 47, 217-25  Simulations and measurements of transcranial low-frequency ultrasound therapy: skull-base heating and effective area of treatment. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 4661-83  Ultrasound insertion loss of rat parietal bone appears to be proportional to animal mass at	10.1	92 6 82 51
110 109 108 107	Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in molecular neurooncology. <i>Neurosurgical Focus</i> , <b>2012</b> , 32, E3  The use of two-photon microscopy to study the biological effects of focused ultrasound on the brain <b>2012</b> ,  In vitro and in vivo high-intensity focused ultrasound thrombolysis. <i>Investigative Radiology</i> , <b>2012</b> , 47, 217-25  Simulations and measurements of transcranial low-frequency ultrasound therapy: skull-base heating and effective area of treatment. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 4661-83  Ultrasound insertion loss of rat parietal bone appears to be proportional to animal mass at submegahertz frequencies. <i>Ultrasound in Medicine and Biology</i> , <b>2011</b> , 37, 1930-7  Targeted delivery of neural stem cells to the brain using MRI-guided focused ultrasound to disrupt	4.2 10.1 3.8 3.5	92 6 82 51 63

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84	Comparison of acoustic power calibration methods for therapeutic ultrasound transducers using PVDF membrane hydrophone, heterodyne laser vibrometery and radiation force measurements <b>2009</b> ,		1
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80	Impact of Focused Ultrasound-enhanced Drug Delivery on Survival in Rats with Glioma 2009,		8
79	In vivo monitoring of focused ultrasound surgery using local harmonic motion. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 65-78	3.5	41
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73	Antivascular effects of pulsed low intensity ultrasound and microbubbles in mouse tumors 2008,		5
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