

Kullervo Hynynen

List of Publications by Year in descending order

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272
papers

26,312
citations

3930

88
h-index

6831

155
g-index

291
all docs

291
docs citations

291
times ranked

10207
citing authors

#	ARTICLE	IF	CITATIONS
1	Noninvasive MR Imaging-guided Focal Opening of the Blood-Brain Barrier in Rabbits. <i>Radiology</i> , 2001, 220, 640-646.	3.6	1,264
2	A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. <i>New England Journal of Medicine</i> , 2016, 375, 730-739.	13.9	770
3	Blood-brain barrier opening in Alzheimer's disease using MR-guided focused ultrasound. <i>Nature Communications</i> , 2018, 9, 2336.	5.8	618
4	MR Imaging-guided Focused Ultrasound Surgery of Fibroadenomas in the Breast: A Feasibility Study. <i>Radiology</i> , 2001, 219, 176-185.	3.6	602
5	Local and reversible blood-brain barrier disruption by noninvasive focused ultrasound at frequencies suitable for trans-skull sonications. <i>NeuroImage</i> , 2005, 24, 12-20.	2.1	596
6	Noninvasive localized delivery of Herceptin to the mouse brain by MRI-guided focused ultrasound-induced blood-brain barrier disruption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11719-11723.	3.3	589
7	MR Imaging-guided Focused Ultrasound Surgery of Uterine Leiomyomas: A Feasibility Study. <i>Radiology</i> , 2003, 226, 897-905.	3.6	547
8	Cellular mechanisms of the blood-brain barrier opening induced by ultrasound in presence of microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 979-989.	0.7	514
9	Transcranial Magnetic Resonance Imaging-guided Focused Ultrasound Surgery of Brain Tumors. <i>Neurosurgery</i> , 2010, 66, 323-332.	0.6	504
10	Targeted delivery of doxorubicin to the rat brain at therapeutic levels using MRI-guided focused ultrasound. <i>International Journal of Cancer</i> , 2007, 121, 901-907.	2.3	492
11	MR-guided focused ultrasound thalamotomy for essential tremor: a proof-of-concept study. <i>Lancet Neurology</i> , The, 2013, 12, 462-468.	4.9	475
12	Demonstration of Potential Noninvasive Ultrasound Brain Therapy Through an Intact Skull. <i>Ultrasound in Medicine and Biology</i> , 1998, 24, 275-283.	0.7	418
13	Effect of Focused Ultrasound Applied With an Ultrasound Contrast Agent on the Tight Junctional Integrity of the Brain Microvascular Endothelium. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 1093-1104.	0.7	409
14	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.	1.6	400
15	500-element ultrasound phased array system for noninvasive focal surgery of the brain: A preliminary rabbit study with ex vivo human skulls. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 100-107.	1.9	320
16	Antibodies Targeted to the Brain with Image-Guided Focused Ultrasound Reduces Amyloid- β^2 Plaque Load in the TgCRND8 Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2010, 5, e10549.	1.1	319
17	First-in-human trial of blood-brain barrier opening in amyotrophic lateral sclerosis using MR-guided focused ultrasound. <i>Nature Communications</i> , 2019, 10, 4373.	5.8	312
18	Blood-Brain Barrier: Real-time Feedback-controlled Focused Ultrasound Disruption by Using an Acoustic Emissions-based Controller. <i>Radiology</i> , 2012, 263, 96-106.	3.6	308

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19	Targeted delivery of antibodies through the blood-brain barrier by MRI-guided focused ultrasound. <i>Biochemical and Biophysical Research Communications</i> , 2006, 340, 1085-1090.	1.0	305
20	MRI-guided targeted blood-brain barrier disruption with focused ultrasound: Histological findings in rabbits. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 1527-1537.	0.7	292
21	Focal disruption of the blood-brain barrier due to 260-kHz ultrasound bursts: a method for molecular imaging and targeted drug delivery. <i>Journal of Neurosurgery</i> , 2006, 105, 445-454.	0.9	277
22	Amyloid- β plaque reduction, endogenous antibody delivery and glial activation by brain-targeted, transcranial focused ultrasound. <i>Experimental Neurology</i> , 2013, 248, 16-29.	2.0	265
23	MR-Guided Focused Ultrasound Surgery. <i>Journal of Computer Assisted Tomography</i> , 1992, 16, 956-965.	0.5	259
24	Super-resolution Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 865-891.	0.7	253
25	Blood-Brain Barrier Disruption Induced by Focused Ultrasound and Circulating Preformed Microbubbles Appears to Be Characterized by the Mechanical Index. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 834-840.	0.7	248
26	MR temperature mapping of focused ultrasound surgery. <i>Magnetic Resonance in Medicine</i> , 1994, 31, 628-636.	1.9	246
27	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> , 2012, 38, 1716-1725.	0.7	246
28	Uterine Leiomyomas: MR Imaging-guided Focused Ultrasound Surgery—Results of Different Treatment Protocols. <i>Radiology</i> , 2007, 243, 885-893.	3.6	237
29	Targeted Delivery of Neural Stem Cells to the Brain Using MRI-Guided Focused Ultrasound to Disrupt the Blood-Brain Barrier. <i>PLoS ONE</i> , 2011, 6, e27877.	1.1	234
30	Ultrasound for drug and gene delivery to the brain. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1209-1217.	6.6	232
31	Effects of Acoustic Parameters and Ultrasound Contrast Agent Dose on Focused-Ultrasound Induced Blood-Brain Barrier Disruption. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 930-937.	0.7	228
32	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.	3.6	226
33	Multi-frequency characterization of the speed of sound and attenuation coefficient for longitudinal transmission of freshly excised human skulls. <i>Physics in Medicine and Biology</i> , 2011, 56, 219-250.	1.6	223
34	Progress and problems in the application of focused ultrasound for blood-brain barrier disruption. <i>Ultrasonics</i> , 2008, 48, 279-296.	2.1	219
35	Focused Ultrasound Surgery in Oncology: Overview and Principles. <i>Radiology</i> , 2011, 259, 39-56.	3.6	217
36	Pre-clinical testing of a phased array ultrasound system for MRI-guided noninvasive surgery of the brain—A primate study. <i>European Journal of Radiology</i> , 2006, 59, 149-156.	1.2	211

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37	Applications of focused ultrasound in the brain: from thermoablation to drug delivery. <i>Nature Reviews Neurology</i> , 2021, 17, 7-22.	4.9	211
38	Uterine Leiomyomas: MR Imaging-based Thermometry and Thermal Dosimetry during Focused Ultrasound Thermal Ablation. <i>Radiology</i> , 2006, 240, 263-272.	3.6	207
39	Ultrasound technology for hyperthermia. <i>Ultrasound in Medicine and Biology</i> , 1999, 25, 871-887.	0.7	198
40	MRI-guided focused ultrasound treatments. <i>Ultrasonics</i> , 2010, 50, 221-229.	2.1	193
41	Ultrasound-Responsive Cavitation Nuclei for Therapy and Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2020, 46, 1296-1325.	0.7	193
42	Optimization of spoiled gradient-echo phase imaging for in vivo localization of a focused ultrasound beam. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 745-752.	1.9	188
43	Ultrasound Enhanced Delivery of Molecular Imaging and Therapeutic Agents in Alzheimer's Disease Mouse Models. <i>PLoS ONE</i> , 2008, 3, e2175.	1.1	188
44	Focusing of therapeutic ultrasound through a human skull: A numerical study. <i>Journal of the Acoustical Society of America</i> , 1998, 104, 1705-1715.	0.5	185
45	Localized harmonic motion imaging: theory, simulations and experiments. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1405-1413.	0.7	181
46	Focused ultrasound-mediated drug delivery through the blood-brain barrier. <i>Expert Review of Neurotherapeutics</i> , 2015, 15, 477-491.	1.4	181
47	A hemisphere array for non-invasive ultrasound brain therapy and surgery. <i>Physics in Medicine and Biology</i> , 2000, 45, 3707-3719.	1.6	174
48	Noninvasive arterial occlusion using MRI-guided focused ultrasound. <i>Ultrasound in Medicine and Biology</i> , 1996, 22, 1071-1077.	0.7	169
49	MRI evaluation of thermal ablation of tumors with focused ultrasound. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 91-100.	1.9	169
50	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.	4.6	169
51	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> , 2012, 23, 1144-1155.	1.4	164
52	Thermal dosimetry of a focused ultrasound beam in vivo by magnetic resonance imaging. <i>Medical Physics</i> , 1999, 26, 2017-2026.	1.6	163
53	Multiphoton Imaging of Ultrasound/Optison Mediated Cerebrovascular Effects in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007, 27, 393-403.	2.4	160
54	Focused Ultrasound Delivers Targeted Immune Cells to Metastatic Brain Tumors. <i>Cancer Research</i> , 2013, 73, 1892-1899.	0.4	160

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55	MRI investigation of the threshold for thermally induced blood-brain barrier disruption and brain tissue damage in the rabbit brain. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 913-923.	1.9	155
56	Microbubble Contrast Agent with Focused Ultrasound to Create Brain Lesions at Low Power Levels: MR Imaging and Histologic Study in Rabbits. <i>Radiology</i> , 2006, 241, 95-106.	3.6	154
57	Uterine Leiomyomas: MR Imaging-guided Focused Ultrasound Surgery—Imaging Predictors of Success. <i>Radiology</i> , 2008, 249, 187-194.	3.6	152
58	Brain arterioles show more active vesicular transport of blood-borne tracer molecules than capillaries and venules after focused ultrasound-evoked opening of the blood-brain barrier. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1399-1409.	0.7	149
59	To heat or not to heat: Challenges with clinical translation of thermosensitive liposomes. <i>Journal of Controlled Release</i> , 2017, 249, 63-73.	4.8	143
60	Potential adverse effects of high-intensity focused ultrasound exposure on blood vessels in vivo. <i>Ultrasound in Medicine and Biology</i> , 1996, 22, 193-201.	0.7	136
61	Use of Ultrasound Pulses Combined with Definity for Targeted Blood-Brain Barrier Disruption: A Feasibility Study. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 584-590.	0.7	136
62	The threshold for brain damage in rabbits induced by bursts of ultrasound in the presence of an ultrasound contrast agent (Optison®). <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 473-481.	0.7	133
63	Focused ultrasound thalamotomy location determines clinical benefits in patients with essential tremor. <i>Brain</i> , 2018, 141, 3405-3414.	3.7	129
64	Temperature Mapping using the water proton chemical shift: A chemical shift selective phase mapping method. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 845-851.	1.9	125
65	The potential of transskull ultrasound therapy and surgery using the maximum available skull surface area. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 2519-2527.	0.5	124
66	Stimulation of Hippocampal Neurogenesis by Transcranial Focused Ultrasound and Microbubbles in Adult Mice. <i>Brain Stimulation</i> , 2014, 7, 304-307.	0.7	122
67	MRI detection of the thermal effects of focused ultrasound on the brain. <i>Ultrasound in Medicine and Biology</i> , 2000, 26, 871-880.	0.7	121
68	Focused ultrasound disruption of the blood-brain barrier: a new frontier for therapeutic delivery in molecular neurooncology. <i>Neurosurgical Focus</i> , 2012, 32, E3.	1.0	118
69	Two-Photon Fluorescence Microscopy Study of Cerebrovascular Dynamics in Ultrasound-Induced Blood-Brain Barrier Opening. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1852-1862.	2.4	116
70	Correlation of ultrasound phase with physical skull properties. <i>Ultrasound in Medicine and Biology</i> , 2002, 28, 617-624.	0.7	109
71	The impact of standing wave effects on transcranial focused ultrasound disruption of the blood-brain barrier in a rat model. <i>Physics in Medicine and Biology</i> , 2010, 55, 5251-5267.	1.6	108
72	Three-Dimensional Transcranial Ultrasound Imaging of Microbubble Clouds Using a Sparse Hemispherical Array. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 1285-1294.	2.5	108

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73	Noninvasive and targeted delivery of therapeutics to the brain using focused ultrasound. <i>Neuropharmacology</i> , 2017, 120, 20-37.	2.0	107
74	Enhanced delivery of gold nanoparticles with therapeutic potential into the brain using MRI-guided focused ultrasound. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1133-1142.	1.7	106
75	Noninvasive and Targeted Drug Delivery to the Brain Using Focused Ultrasound. <i>ACS Chemical Neuroscience</i> , 2013, 4, 519-526.	1.7	106
76	Focused-Ultrasound Disruption of the Blood-Brain Barrier Using Closely-Timed Short Pulses: Influence of Sonication Parameters and Injection Rate. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 587-594.	0.7	101
77	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.	4.8	100
78	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.	0.6	100
79	Three-dimensional transcranial microbubble imaging for guiding volumetric ultrasound-mediated blood-brain barrier opening. <i>Theranostics</i> , 2018, 8, 2909-2926.	4.6	100
80	A numerical study of transcranial focused ultrasound beam propagation at low frequency. <i>Physics in Medicine and Biology</i> , 2005, 50, 1821-1836.	1.6	99
81	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.	4.8	99
82	Key factors that affect sonoporation efficiency in in vitro settings: The importance of standing wave in sonoporation. <i>Biochemical and Biophysical Research Communications</i> , 2007, 359, 860-865.	1.0	98
83	In Vitro and In Vivo High-Intensity Focused Ultrasound Thrombolysis. <i>Investigative Radiology</i> , 2012, 47, 217-225.	3.5	98
84	Image-guided ultrasound phased arrays are a disruptive technology for non-invasive therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, R206-R248.	1.6	98
85	Focused ultrasound for targeted delivery of siRNA and efficient knockdown of Htt expression. <i>Journal of Controlled Release</i> , 2012, 163, 125-129.	4.8	96
86	Acute effects of focused ultrasound-induced increases in blood-brain barrier permeability on rat microvascular transcriptome. <i>Scientific Reports</i> , 2017, 7, 45657.	1.6	96
87	Simultaneous magnetic resonance phase and magnitude temperature maps in muscle. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 309-315.	1.9	95
88	Patterns of Thermal Deposition in the Skull During Transcranial Focused Ultrasound Surgery. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1693-1706.	2.5	94
89	Ultrasound Insertion Loss of Rat Parietal Bone Appears to Be Proportional to Animal Mass at Submegahertz Frequencies. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 1930-1937.	0.7	93
90	Opening the Blood-Brain Barrier with MR Imaging-guided Focused Ultrasound: Preclinical Testing on a Transcranial Human Skull Porcine Model. <i>Radiology</i> , 2017, 282, 123-130.	3.6	91

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91	An MRI-compatible system for focused ultrasound experiments in small animal models. <i>Medical Physics</i> , 2009, 36, 1867-1874.	1.6	85
92	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.	4.8	85
93	Temperature monitoring in fat with MRI. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 901-904.	1.9	83
94	Invited. Calibration of water proton chemical shift with temperature for noninvasive temperature imaging during focused ultrasound surgery. <i>Journal of Magnetic Resonance Imaging</i> , 1998, 8, 175-181.	1.9	82
95	MR-guided focused ultrasound enhances delivery of trastuzumab to Her2-positive brain metastases. <i>Science Translational Medicine</i> , 2021, 13, eabj4011.	5.8	82
96	Glymphatics Visualization after Focused Ultrasound-Induced Blood-Brain Barrier Opening in Humans. <i>Annals of Neurology</i> , 2019, 86, 975-980.	2.8	80
97	A Magnetic Resonance Imaging-Compatible, Large-Scale Array for Trans-Skull Ultrasound Surgery and Therapy. <i>Journal of Ultrasound in Medicine</i> , 2005, 24, 1117-1125.	0.8	79
98	Influence of Exposure Time and Pressure Amplitude on Blood-Brain-Barrier Opening Using Transcranial Ultrasound Exposures. <i>ACS Chemical Neuroscience</i> , 2010, 1, 391-398.	1.7	79
99	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.	1.6	79
100	Drug delivery across the blood-brain barrier using focused ultrasound. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 711-721.	2.4	79
101	High-Intensity Focused Ultrasound (HIFU) for Dissolution of Clots in a Rabbit Model of Embolic Stroke. <i>PLoS ONE</i> , 2012, 7, e42311.	1.1	77
102	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.	1.7	77
103	Simulations of the thermo-acoustic lens effect during focused ultrasound surgery. <i>Journal of the Acoustical Society of America</i> , 2001, 109, 2245-2253.	0.5	75
104	Apoptosis in ultrasound-produced threshold lesions in the rabbit brain. <i>Ultrasound in Medicine and Biology</i> , 2001, 27, 111-117.	0.7	72
105	Focused ultrasound-mediated bbb disruption is associated with an increase in activation of AKT: experimental study in rats. <i>BMC Neurology</i> , 2010, 10, 114.	0.8	72
106	MRI monitoring of the thermal ablation of tissue: Effects of long exposure times. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 421-427.	1.9	70
107	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.	1.1	70
108	Ultrasound enhanced drug delivery to the brain and central nervous system. <i>International Journal of Hyperthermia</i> , 2012, 28, 386-396.	1.1	69

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109	Field characterization of therapeutic ultrasound phased arrays through forward and backward planar projection. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 441-446.	0.5	67
110	MR monitoring of focused ultrasonic surgery of renal cortex: Experimental and simulation studies. <i>Journal of Magnetic Resonance Imaging</i> , 1995, 5, 259-266.	1.9	65
111	Thermal effects of focused ultrasound energy on bone tissue. <i>Ultrasound in Medicine and Biology</i> , 2001, 27, 1427-1433.	0.7	65
112	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.	4.8	65
113	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.	0.8	65
114	The Usefulness of a Contrast Agent and Gradient-Recalled Acquisition in a Steady-State Imaging Sequence for Magnetic Resonance Imaging-Guided Noninvasive Ultrasound Surgery. <i>Investigative Radiology</i> , 1994, 29, 897-903.	3.5	64
115	Transcranial ultrasound focus reconstruction with phase and amplitude correction. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 1518-1522.	1.7	64
116	Focused ultrasound for blood-brain disruption and delivery of therapeutic molecules into the brain. <i>Expert Opinion on Drug Delivery</i> , 2007, 4, 27-35.	2.4	64
117	Simulations and measurements of transcranial low-frequency ultrasound therapy: skull-base heating and effective area of treatment. <i>Physics in Medicine and Biology</i> , 2011, 56, 4661-4683.	1.6	63
118	MRigHIFU: A tool for image-guided therapeutics. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 482-493.	1.9	63
119	Mechanism of Porphyrin-Induced Sonodynamic Effect: Possible Role of Hyperthermia. <i>Radiation Research</i> , 2006, 165, 299-306.	0.7	62
120	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.	4.6	62
121	The relevance of skull density ratio in selecting candidates for transcranial MR-guided focused ultrasound. <i>Journal of Neurosurgery</i> , 2020, 132, 1785-1791.	0.9	62
122	Enhanced drug delivery in rabbit VX2 tumours using thermosensitive liposomes and MRI-controlled focused ultrasound hyperthermia. <i>International Journal of Hyperthermia</i> , 2012, 28, 776-787.	1.1	61
123	Focal beam distortion and treatment planning in abdominal focused ultrasound surgery. <i>Medical Physics</i> , 2005, 32, 1270-1280.	1.6	59
124	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.	0.7	58
125	Experimental demonstration of passive acoustic imaging in the human skull cavity using CT-based aberration corrections. <i>Medical Physics</i> , 2015, 42, 4385-4400.	1.6	58
126	Time course of focused ultrasound effects on β -amyloid plaque pathology in the TgCRND8 mouse model of Alzheimer's disease. <i>Scientific Reports</i> , 2018, 8, 14061.	1.6	58

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127	Focused Ultrasound-Induced Neurogenesis Requires an Increase in Blood-Brain Barrier Permeability. PLoS ONE, 2016, 11, e0159892.	1.1	58
128	A multi-frequency sparse hemispherical ultrasound phased array for microbubble-mediated transcranial therapy and simultaneous cavitation mapping. Physics in Medicine and Biology, 2016, 61, 8476-8501.	1.6	57
129	Investigation of the Safety of Focused Ultrasound-Induced Blood-Brain Barrier Opening in a Natural Canine Model of Aging. Theranostics, 2017, 7, 3573-3584.	4.6	57
130	A PVDF Receiver for Ultrasound Monitoring of Transcranial Focused Ultrasound Therapy. IEEE Transactions on Biomedical Engineering, 2010, 57, 2286-2294.	2.5	56
131	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.	2.5	56
132	Intracranial Applications of Magnetic Resonance-guided Focused Ultrasound. Neurotherapeutics, 2014, 11, 593-605.	2.1	55
133	Evaluating the safety profile of focused ultrasound and microbubble-mediated treatments to increase blood-brain barrier permeability. Expert Opinion on Drug Delivery, 2019, 16, 129-142.	2.4	54
134	Invited. Brain edema development after MRI-guided focused ultrasound treatment. Journal of Magnetic Resonance Imaging, 1998, 8, 136-142.	1.9	51
135	In Vivo Monitoring of Focused Ultrasound Surgery Using Local Harmonic Motion. Ultrasound in Medicine and Biology, 2009, 35, 65-78.	0.7	50
136	Noninvasive delivery of an α -synuclein gene silencing vector with magnetic resonance-guided focused ultrasound. Movement Disorders, 2018, 33, 1567-1579.	2.2	49
137	Focused Ultrasound and Microbubbles-Mediated Drug Delivery to Brain Tumor. Pharmaceutics, 2021, 13, 15.	2.0	49
138	A parametric study of the concentric-ring transducer design for MRI guided ultrasound surgery. Journal of the Acoustical Society of America, 1996, 100, 1220-1230.	0.5	48
139	MR-guided Focused Ultrasound Facilitates Sonodynamic Therapy with 5-Aminolevulinic Acid in a Rat Glioma Model. Scientific Reports, 2019, 9, 10465.	1.6	48
140	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.	3.3	48
141	Resting state functional connectivity changes after MR-guided focused ultrasound mediated blood-brain barrier opening in patients with Alzheimer's disease. NeuroImage, 2019, 200, 275-280.	2.1	46
142	Feasibility of Using Lateral Mode Coupling Method for a Large Scale Ultrasound Phased Array for Noninvasive Transcranial Therapy. IEEE Transactions on Biomedical Engineering, 2010, 57, 124-133.	2.5	45
143	Microbubbles and Blood-Brain Barrier Opening: A Numerical Study on Acoustic Emissions and Wall Stress Predictions. IEEE Transactions on Biomedical Engineering, 2015, 62, 1293-1304.	2.5	44
144	Contrast Agent Kinetics in the Rabbit Brain During Exposure to Therapeutic Ultrasound. Ultrasound in Medicine and Biology, 2010, 36, 916-924.	0.7	43

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145	Enhancing Checkpoint Inhibitor Therapy with Ultrasound Stimulated Microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 500-512.	0.7	42
146	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.	0.8	41
147	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.	4.6	41
148	MRI-guided focused ultrasound enhances drug delivery in experimental diffuse intrinsic pontine glioma. <i>Journal of Controlled Release</i> , 2021, 330, 1034-1045.	4.8	38
149	Design and experimental verification of thin acoustic lenses for the coagulation of large tissue volumes. <i>Physics in Medicine and Biology</i> , 1997, 42, 2341-2354.	1.6	36
150	MRI-Guided Focused Ultrasound for Targeted Delivery of rAAV to the Brain. <i>Methods in Molecular Biology</i> , 2019, 1950, 177-197.	0.4	36
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