Kim Butts Pauly

List of Publications by Year
in descending order

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59 papers	2,459 citations	361413 20 h-index	214800 47 g-index
60 all docs	60 docs citations	60 times ranked	2478 citing authors

#	Article	IF	Citations
1	A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. New England Journal of Medicine, 2016, 375, 730-739.	27.0	770
2	Frequency Dependence of Ultrasound Neurostimulation in the Mouse Brain. Ultrasound in Medicine and Biology, 2016, 42, 1512-1530.	1.5	182
3	Transcranial MRI-Guided Focused Ultrasound: A Review of the Technologic and Neurologic Applications. American Journal of Roentgenology, 2015, 205, 150-159.	2.2	175
4	Localization of Ultrasound-Induced InÂVivo Neurostimulation in the Mouse Model. Ultrasound in Medicine and Biology, 2014, 40, 1512-1522.	1.5	115
5	Elimination of peripheral auditory pathway activation does not affect motor responses from ultrasound neuromodulation. Brain Stimulation, 2019, 12, 901-910.	1.6	108
6	Magnetic resonance-guided focused ultrasound treatment of extra-abdominal desmoid tumors: a retrospective multicenter study. European Radiology, 2017, 27, 732-740.	4.5	83
7	The road to clinical use of high-intensity focused ultrasound for liver cancer: technical and clinical consensus. Journal of Therapeutic Ultrasound, 2013, 1, 13.	2.2	76
8	Costâ€effectiveness of focused ultrasound, radiosurgery, and DBS for essential tremor. Movement Disorders, 2017, 32, 1165-1173.	3.9	75
9	Remote, brain regionâ€“specific control of choice behavior with ultrasonic waves. Science Advances, 2020, 6, eaaz4193.	10.3	73
10	Magnetic Resonance-Guided High-Intensity Ultrasound Ablation of the Prostate. Topics in Magnetic Resonance Imaging, 2006, 17, 195-207.	1.2	71
11	Diffusion MRI tractography for improved transcranial MRI-guided focused ultrasound thalamotomy targeting for essential tremor. NeuroImage: Clinical, 2018, 19, 572-580.	2.7	64
12	Histologic safety of transcranial focused ultrasound neuromodulation and magnetic resonance acoustic radiation force imaging in rhesus macaques and sheep. Brain Stimulation, 2020, 13, 804-814.	1.6	54
13	Magnetic resonance elastography of the brain: A comparison between pigs and humans. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 702-710.	3.1	53
14	A meta-analysis of palliative treatment of pancreatic cancer with high intensity focused ultrasound. Journal of Therapeutic Ultrasound, 2017, 5, 9.	2.2	51
15	Impact of skull density ratio on efficacy and safety of magnetic resonanceâ€“guided focused ultrasound treatment of essential tremor. Journal of Neurosurgery, 2020, 132, 1392-1397.	1.6	50
16	Transcranial MRIâ€guided highâ€intensity focused ultrasound for treatment of essential tremor: A pilot study on the correlation between lesion size, lesion location, thermal dose, and clinical outcome. Journal of Magnetic Resonance Imaging, 2018, 48, 58-65.	3.4	43
17	Improved cortical bone specificity in UTE MR Imaging. Magnetic Resonance in Medicine, 2017, 77, 684-695.	3.0	37
18	Transcranial phase aberration correction using beam simulations and MRâ€ARFI. Medical Physics, 2014, 41, 032901.	3.0	32

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19	Specialized volumetric thermometry for improved guidance of MRgFUS in brain. Magnetic Resonance in Medicine, 2017, 78, 508-517.	3.0	25
20	Predicting variation in subject thermal response during transcranial magnetic resonance guided focused ultrasound surgery: Comparison in seventeen subject datasets. Medical Physics, 2016, 43, 5170-5180.	3.0	24
21	Improved Vim targeting for focused ultrasound ablation treatment of essential tremor: A probabilistic and patientâ€specific approach. Human Brain Mapping, 2020, 41, 4769-4788.	3.6	22
22	Optimization of a Multifrequency Magnetic Resonance Elastography Protocol for the Human Brain. Journal of Neuroimaging, 2019, 29, 440-446.	2.0	20
23	Hearing out Ultrasound Neuromodulation. Neuron, 2018, 98, 875-877.	8.1	18
24	Improving thermal dose accuracy in magnetic resonance-guided focused ultrasound surgery: Long-term thermometry using a prior baseline as a reference. Journal of Magnetic Resonance Imaging, 2016, 43, 181-189.	3.4	16
25	Correcting heatâ€induced chemical shift distortions in proton resonance frequencyâ€shift thermometry. Magnetic Resonance in Medicine, 2016, 76, 172-182.	3.0	16
26	MR thermometry near metallic devices using multispectral imaging. Magnetic Resonance in Medicine, 2017, 77, 1162-1169.	3.0	16
27	Histologic evaluation of activation of acute inflammatory response in a mouse model following ultrasound-mediated blood-brain barrier using different acoustic pressures and microbubble doses. Nanotheranostics, 2020, 4, 210-223.	5.2	16
28	Improved MRI thermometry with multipleâ€echo spirals. Magnetic Resonance in Medicine, 2016, 76, 747-756.	3.0	15
29	Treatment of Low-Flow Vascular Malformations of the Extremities Using MR-Guided High Intensity Focused Ultrasound: Preliminary Experience. Journal of Vascular and Interventional Radiology, 2017, 28, 1739-1744.	0.5	15
30	A spiralâ€based volumetric acquisition for MR temperature imaging. Magnetic Resonance in Medicine, 2018, 79, 3122-3127.	3.0	14
31	Design, Performance, and Applications of a Hybrid X-Ray/MR System for Interventional Guidance. Proceedings of the IEEE, 2008, 96, 468-480.	21.3	13
32	MR elastography frequencyâ€“dependent and independent parameters demonstrate accelerated decrease of brain stiffness in elder subjects. European Radiology, 2020, 30, 6614-6623.	4.5	13
33	Endoluminal ultrasound applicators for MRâ€guided thermal ablation of pancreatic tumors: Preliminary design and evaluation in a porcine pancreas model. Medical Physics, 2016, 43, 4184-4197.	3.0	9
34	MRI-Guided Focused Ultrasound of Osseous Metastases. Investigative Radiology, 2021, 56, 141-146.	6.2	9
35	A feasibility study on monitoring the evolution of apparent diffusion coefficient decrease during thermal ablation. Medical Physics, 2015, 42, 5130-5137.	3.0	8
36	Case Report on Deep Brain Stimulation Rescue After Suboptimal MR-Guided Focused Ultrasound Thalamotomy for Essential Tremor: A Tractography-Based Investigation. Frontiers in Human Neuroscience, 2020, 14, 191.	2.0	8

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37	A preclinical study of diffusionâ€weighted MRI contrast as an early indicator of thermal ablation. Magnetic Resonance in Medicine, 2021, 85, 2145-2159.	3.0	8
38	High sensitivity MR acoustic radiation force imaging using transition band balanced steadyâ€state free precession. Magnetic Resonance in Medicine, 2018, 79, 1532-1537.	3.0	7
39	Evaluation of an MRI receive head coil for use in transcranial MR guided focused ultrasound for functional neurosurgery. International Journal of Hyperthermia, 2021, 38, 22-29.	2.5	7
40	A 1-MHz 2-D CMUT array for HIFU thermal ablation. AIP Conference Proceedings, 2017, , .	0.4	6
41	Prolonged heating in nontargeted tissue during MRâ€guided focused ultrasound of bone tumors. Journal of Magnetic Resonance Imaging, 2019, 50, 1526-1533.	3.4	6
42	Magnetic resonance guided high-intensity focused ultrasound ablation of musculoskeletal tumors. Current Orthopaedic Practice, 2011, 22, 303-308.	0.2	5
43	Anatomic and Thermometric Analysis of Cranial Nerve Palsy after Laser Amygdalohippocampotomy for Mesial Temporal Lobe Epilepsy. Operative Neurosurgery, 2020, 18, 684-691.	0.8	5
44	Improving in situ acoustic intensity estimates using <scp>MR</scp> acoustic radiation force imaging in combination with multifrequency <scp>MR</scp> elastography. Magnetic Resonance in Medicine, 2022, 88, 1673-1689.	3.0	5
45	Changes in the Cerebello-Thalamo-Cortical Network After Magnetic Resonance-Guided Focused Ultrasound Thalamotomy. Brain Connectivity, 2023, 13, 28-38.	1.7	4
46	Segmentation of Costal Cartilage in Abdominal CT Data using Watershed Markers. AIP Conference Proceedings, 2007, , .	0.4	3
47	Transcranial phase aberration correction using beam simulations and MR-ARFI. , 2012, , .		3
48	MRI monitoring of focused ultrasound sonications near metallic hardware. Magnetic Resonance in Medicine, 2018, 80, 259-271.	3.0	3
49	Testing Different Combinations of Acoustic Pressure and Doses of Quinolinic Acid for Induction of Focal Neuron Loss in Mice Using Transcranial Low-Intensity Focused Ultrasound. Ultrasound in Medicine and Biology, 2019, 45, 129-136.	1.5	3
50	Optimization of Encoding Gradients for Magnetic Resonance Acoustic Radiation Force Imaging. AIP Conference Proceedings, 2009, , .	0.4	2
51	Dynamic Angular Control Of Thermal Therapy With Stationary Multi-Sectored Tubular Ultrasound Applicators Under MR Temperature Monitoring. AIP Conference Proceedings, 2006, , .	0.4	1
52	Progress in Development of HIFU CMUTs for use under MR-guidance. , 2009, , .		1
53	Targeted Prostate Thermal Therapy with Catheter-Based Ultrasound Devices and MR Thermal Monitoring. AIP Conference Proceedings, 2006, , .	0.4	0
54	Referenceless PRF thermometry with multi-echo processing to monitor prostate ablation. AIP Conference Proceedings, 2007, , .	0.4	0

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55	Fast Conformal Thermal Ablation in the Prostate with Transurethral Multi-Sectored Ultrasound Devices and MR Guidance. AIP Conference Proceedings, 2007, , .	0.4	0
56	The Feasibility of HIFU Liver Ablation Through the Ribcage and Cartilage in a Rodent Model. , 2009, , .		0
57	Fast Referenceless PRF Thermometry Using Spatially Saturated, Spatial-spectrally Excited Flyback EPI. , 2009, , .		0
58	Catheter-Based Ultrasound for 3D Control of Thermal Therapy. , 2009, , .		0
59	Improving thermal dose accuracy in magnetic resonance-guided focused ultrasound surgery: Long-term thermometry using a prior baseline as a reference. Journal of Magnetic Resonance Imaging, 2016, 43, spcone-spcone.	3.4	0