Zhifei Wen

List of Publications by Year
in descending order

38 papers	2,130 citations	393982 19 h-index	360668 35 g-index
38 all docs	38 docs citations	38 times ranked	2473 citing authors

#	Article	IF	Citations
1	Iterative decomposition of water and fat with echo asymmetry and least-squares estimation (IDEAL): Application with fast spin-echo imaging. Magnetic Resonance in Medicine, 2005, 54, 636-644.	1.9	615
2	Multicoil Dixon chemical species separation with an iterative least-squares estimation method. Magnetic Resonance in Medicine, 2004, 51, 35-45.	1.9	449
3	CramÃ©r-Rao bounds for three-point decomposition of water and fat. Magnetic Resonance in Medicine, 2005, 54, 625-635.	1.9	194
4	The future of image-guided radiotherapy will be MR guided. British Journal of Radiology, 2017, 90, 20160667.	1.0	147
5	Exploratory Study of 4D versus 3D Robust Optimization in Intensity Modulated Proton Therapy for Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2016, 95, 523-533.	0.4	103
6	A truly hybrid interventional MR/X-ray system: Feasibility demonstration. Journal of Magnetic Resonance Imaging, 2001, 13, 294-300.	1.9	68
7	MR-guided Transjugular Intrahepatic Portosystemic Shunt Creation with Use of a Hybrid Radiography/MR System. Journal of Vascular and Interventional Radiology, 2005, 16, 227-234.	0.2	68
8	Iterative projection reconstruction of time-resolved images using highly-constrained back-projection (HYPR). Magnetic Resonance in Medicine, 2008, 59, 132-139.	1.9	50
9	Truly Hybrid Interventional MR/X-Ray System. Academic Radiology, 2001, 8, 1200-1207.	1.3	42
10	Truly Hybrid X-Ray/MR Imaging: Toward a Streamlined Clinical System1. Academic Radiology, 2005, 12, 1167-1177.	1.3	31
11	Effects of Atorvastatin on Cerebral Blood Flow in Middle-Aged Adults at Risk for Alzheimerâ€™s Disease: A Pilot Study. Current Alzheimer Research, 2012, 9, 990-997.	0.7	27
12	Developing and characterizing <scp>MR</scp>/<scp>CT</scp>â€visible materials used in <scp>QA</scp> phantoms for <scp>MR</scp>g<scp>RT</scp> systems. Medical Physics, 2018, 45, 773-782.	1.6	27
13	Performance of a static-anode/flat-panel x-ray fluoroscopy system in a diagnostic strength magnetic field: A truly hybrid x-ray/MR imaging system. Medical Physics, 2005, 32, 1775-1784.	1.6	26
14	Development of a frameless stereotactic radiosurgery system based on real-time 6D position monitoring and adaptive head motion compensation. Physics in Medicine and Biology, 2010, 55, 389-401.	1.6	26
15	First use of a truly-hybrid X-ray/MR imaging system for guidance of brain biopsy. Acta Neurochirurgica, 2003, 145, 995-997.	0.9	23
16	Effect of magnetic field strength on plastic scintillation detector response. Radiation Measurements, 2018, 116, 10-13.	0.7	23
17	4D MR imaging using robust internal respiratory signal. Physics in Medicine and Biology, 2016, 61, 3472-3487.	1.6	20
18	Compatibility of interventional x-ray and magnetic resonance imaging: Feasibility of a closed bore XMR (CBXMR) system. Medical Physics, 2006, 33, 3033-3045.	1.6	19

#	Article	IF	Citations
19	Investigation of electron trajectories of an xâ€ray tube in magnetic fields of MR scanners. Medical Physics, 2007, 34, 2048-2058.	1.6	19
20	A methodology to investigate the impact of image distortions on the radiation dose when using magnetic resonance images for planning. Physics in Medicine and Biology, 2018, 63, 085005.	1.6	17
21	Robust x-ray tubes for use within magnetic fields of MR scanners. Medical Physics, 2005, 32, 2327-2336.	1.6	14
22	MRIgRT dynamic lung motion thorax anthropomorphic QA phantom: Design, development, reproducibility, and feasibility study. Medical Physics, 2019, 46, 5124-5133.	1.6	14
23	Investigation of TLD and EBT 3 performance under the presence of 1.5T, 0.35T, and 0T magnetic field strengths in MR / CT visible materials. Medical Physics, 2019, 46, 3217-3226.	1.6	14
24	Design, Performance, and Applications of a Hybrid X-Ray/MR System for Interventional Guidance. Proceedings of the IEEE, 2008, 96, 468-480.	16.4	13
25	MRIgRT head and neck anthropomorphic QA phantom: Design, development, reproducibility, and feasibility study. Medical Physics, 2020, 47, 604-613.	1.6	13
26	Biological responses of human solid tumor cells to Xâ€ray irradiation within a 1.5â€Tesla magnetic field generated by a magnetic resonance imagingâ€“linear accelerator. Bioelectromagnetics, 2016, 37, 471-480.	0.9	12
27	Study of increased radiation when an x-ray tube is placed in a strong magnetic field. Medical Physics, 2007, 34, 408-418.	1.6	10
28	A modular phantom and software to characterize 3D geometric distortion in MRI. Physics in Medicine and Biology, 2020, 65, 195008.	1.6	8
29	Validation of PTV margin for Gamma Knife Icon frameless treatment using a PseudoPatientÂ® Prime anthropomorphic phantom. Journal of Applied Clinical Medical Physics, 2020, 21, 278-285.	0.8	7
30	Shimming with permanent magnets for the xâ€ray detector in a hybrid xâ€ray/MR system. Medical Physics, 2008, 35, 3895-3902.	1.6	6
31	Noise considerations of three-point water-fat separation imaging methods. Medical Physics, 2008, 35, 3597-3606.	1.6	6
32	IMRT planning parameter optimization for spine stereotactic radiosurgery. Medical Dosimetry, 2019, 44, 303-308.	0.4	6
33	X-ray tube in parallel magnetic fields. , 2003, 5030, 972.		5
34	Atorvastatin Therapy is Associated with Greater and Faster Cerebral Hemodynamic Response. Brain Imaging and Behavior, 2008, 2, 94-104.	1.1	5
35	Use of uniform shots for robust planning of mask-based treatment in Gamma Knife Icon. Physica Medica, 2020, 73, 135-157.	0.4	2
36	Dosimetric validation of the Gamma Knife Icon plan adaptation and high-definition motion management system with a motorized anthropomorphic head phantom. Journal of Radiosurgery and SBRT, 2019, 6, 217-226.	0.2	1

#	Article	IF	Citations
37	4D and multi-phase breath-hold CT imaging with synchronized intravenous contrast injection for liver tumor delineation. , 2013, , .		0
38	SU-FF-T-529: A Feasibility Study On Frameless Gated Head Stereotactic Radiosurgery/Radiotherapy Via Real-Time Optical Position Monitoring and Adaptive Head Motion Compensation. Medical Physics, 2009, 36, 2645-2646.	1.6	0