

Shengzhen Tao

List of Publications by Year in descending order

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36
papers

1,051
citations

471061

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433756

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36
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36
docs citations

36
times ranked

978
citing authors

#	ARTICLE	IF	CITATIONS
1	Photon-counting Detector CT: System Design and Clinical Applications of an Emerging Technology. Radiographics, 2019, 39, 729-743.	1.4	270
2	Dose Reduction for Sinus and Temporal Bone Imaging Using Photon-Counting Detector CT With an Additional Tin Filter. Investigative Radiology, 2020, 55, 91-100.	3.5	86
3	Photon Counting CT: Clinical Applications and Future Developments. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 441-452.	2.7	68
4	Magnetic Resonance Elastography for the Evaluation of Liver Fibrosis in Chronic Hepatitis B and C by Using Both Gradient-Recalled Echo and Spin-Echo Echo Planar Imaging: A Prospective Study. American Journal of Gastroenterology, 2016, 111, 823-833.	0.2	66
5	Pancreatic Stiffness Quantified with MR Elastography: Relationship to Postoperative Pancreatic Fistula after Pancreaticoenteric Anastomosis. Radiology, 2018, 288, 476-484.	3.6	43
6	Integrated image reconstruction and gradient nonlinearity correction. Magnetic Resonance in Medicine, 2015, 74, 1019-1031.	1.9	42
7	Feasibility of multi-contrast imaging on dual-source photon counting detector (PCD) CT: An initial phantom study. Medical Physics, 2019, 46, 4105-4115.	1.6	41
8	Material decomposition with prior knowledge aware iterative denoising (MD-PKAID). Physics in Medicine and Biology, 2018, 63, 195003.	1.6	39
9	Improved coronary calcification quantification using photon-counting-detector CT: an ex vivo study in cadaveric specimens. European Radiology, 2021, 31, 6621-6630.	2.3	37
10	Differentiation of benign and malignant solid pancreatic masses using magnetic resonance elastography with spin-echo echo planar imaging and three-dimensional inversion reconstruction: a prospective study. European Radiology, 2018, 28, 936-945.	2.3	36
11	Gradient pre-emphasis to counteract first-order concomitant fields on asymmetric MRI gradient systems. Magnetic Resonance in Medicine, 2017, 77, 2250-2262.	1.9	30
12	B_0 concomitant field compensation for MRI systems employing asymmetric transverse gradient coils. Magnetic Resonance in Medicine, 2018, 79, 1538-1544.	1.9	30
13	Deep-learning-based direct inversion for material decomposition. Medical Physics, 2020, 47, 6294-6309.	1.6	26
14	Technical Note: Compact three-Tesla magnetic resonance imager with high-performance gradients passes ACR image quality and acoustic noise tests. Medical Physics, 2016, 43, 1259-1264.	1.6	23
15	Quantitative Knee Arthrography in a Large Animal Model of Osteoarthritis Using Photon-Counting Detector CT. Investigative Radiology, 2020, 55, 349-356.	3.5	22
16	Image-based gradient non-linearity characterization to determine higher-order spherical harmonic coefficients for improved spatial position accuracy in magnetic resonance imaging. Magnetic Resonance Imaging, 2017, 38, 54-62.	1.0	19
17	Improving iodine contrast to noise ratio using virtual monoenergetic imaging and prior-knowledge-aware iterative denoising (mono-PKAID). Physics in Medicine and Biology, 2019, 64, 105014.	1.6	19
18	Dual-source photon counting detector CT with a tin filter: a phantom study on iodine quantification performance. Physics in Medicine and Biology, 2019, 64, 115019.	1.6	18

#	ARTICLE	IF	CITATIONS
19	NonCartesian MR image reconstruction with integrated gradient nonlinearity correction. Medical Physics, 2015, 42, 7190-7201.	1.6	17
20	Distortion-free imaging: A double encoding method (DIADEM) combined with multiband imaging for rapid distortion-free high-resolution diffusion imaging on a compact 3T with high-performance gradients. Journal of Magnetic Resonance Imaging, 2020, 51, 296-310.	1.9	15
21	Multi-energy CT imaging for large patients using dual-source photon-counting detector CT. Physics in Medicine and Biology, 2020, 65, 17NT01.	1.6	14
22	Improving apparent diffusion coefficient accuracy on a compact 3T MRI scanner using gradient nonlinearity correction. Journal of Magnetic Resonance Imaging, 2018, 48, 1498-1507.	1.9	13
23	Partial fourier and parallel MR image reconstruction with integrated gradient nonlinearity correction. Magnetic Resonance in Medicine, 2016, 75, 2534-2544.	1.9	12
24	Technical Note: kV-independent coronary calcium scoring: A phantom evaluation of score accuracy and potential radiation dose reduction. Medical Physics, 2021, 48, 1307-1314.	1.6	10
25	The effect of concomitant fields in fast spin echo acquisition on asymmetric MRI gradient systems. Magnetic Resonance in Medicine, 2018, 79, 1354-1364.	1.9	9
26	Optimization of fast gray matter acquisition T1 inversion recovery (FGATIR) on 7T MRI for deep brain stimulation targeting. NeuroImage, 2022, 252, 119043.	2.1	9
27	Impact of prior information on material decomposition in dual- and multienergy computed tomography. Journal of Medical Imaging, 2019, 6, 1.	0.8	7
28	Ultra-high resolution photon-counting detector CT reconstruction using spectral prior image constrained compressed-sensing (UHR-SPICCS). , 2018, 10573, .		7
29	Noise reduction in CT image using prior knowledge aware iterative denoising. Physics in Medicine and Biology, 2020, , .	1.6	6
30	Impact of Effective Detector Pixel and CT Voxel Size on Accurate Estimation of Blood Volume in Opacified Microvasculature. Academic Radiology, 2019, 26, 1410-1416.	1.3	5
31	Magnetization-prepared shells trajectory with automated gradient waveform design. Magnetic Resonance in Medicine, 2018, 79, 2024-2035.	1.9	3
32	Partial fourier shells trajectory for non-cartesian MRI. Physics in Medicine and Biology, 2019, 64, 04NT01.	1.6	3
33	A Blooming correction technique for improved vasa vasorum detection using an ultra-high-resolution photon-counting detector CT. , 2020, 11312, .		3
34	Implementation and experimental evaluation of Mega-voltage fan-beam CT using a linear accelerator. Radiation Oncology, 2021, 16, 139.	1.2	1
35	Quantitative cartilage imaging using spectral photon-counting detector based computed tomography. , 2019, , .		1
36	Technical note: Evaluation of Artificial 120 kilovolt computed tomography images for radiation therapy applications. Medical Physics, 2022, , .	1.6	1