Shuhang Chen

List of Publications by Year
in descending order

53	1,429	430442	344852
papers	citations	18	36
		h-index	g-index

55	55	55	1927
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Multimodality Attention-Guided 3-D Detection of Nonsmall Cell Lung Cancer in ^{18}F-FDG PET/CT Images. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 421-432.	2.7	8
2	Thermally activated delayed fluorescence (TADF) organic molecules for efficient X-ray scintillation and imaging. Nature Materials, 2022, 21, 210-216.	13.3	146
3	Unsupervised arterial spin labeling image superresolution via multiscale generative adversarial network. Medical Physics, 2022, 49, 2373-2385.	1.6	3
4	Cycle-consistent learning-based hybrid iterative reconstruction for whole-body PET imaging. Physics in Medicine and Biology, 2022, 67, 085016.	1.6	3
5	Blip up–down acquisition for spin–and gradient–echo imaging (BUDA–SAGE) with self–supervised denoising enables efficient T_2, T_2*, para–and dia–magnetic susceptibility mapping. Magnetic Resonance in Medicine, 2022, 88, 633-650.	1.9	15
6	Invertible AC-flow: Direct Attenuation Correction Of Pet Images Without Ct Or Mr Images. , 2022, , .		1
7	Liver-Buda-Sage: Simultaneous Whole Liver T_2 and T*$_2$ Mapping in one Breath-Hold. , 2022, , .		1
8	Efficient T_2 mapping with blip–up/down EPI and gSlider–SMS (T_2–BUDA–gSlider). Magnetic Resonance in Medicine, 2021, 86, 2064-2075.	1.9	13
9	Cardiac MRI segmentation with focal loss constrained deep residual networks. Physics in Medicine and Biology, 2021, 66, .	1.6	8
10	Populational and individual information based PET image denoising using conditional unsupervised learning. Physics in Medicine and Biology, 2021, 66, 155001.	1.6	15
11	Rapid high-quality PET Patlak parametric image generation based on direct reconstruction and temporal nonlocal neural network. NeuroImage, 2021, 240, 118380.	2.1	8
12	Spatio-temporal multi-task network cascade for accurate assessment of cardiac CT perfusion. Medical Image Analysis, 2021, 74, 102207.	7.0	3
13	Efficient knowledge distillation for liver CT segmentation using growing assistant network. Physics in Medicine and Biology, 2021, 66, 235005.	1.6	6
14	Medical image segmentation with generative adversarial semi-supervised network. Physics in Medicine and Biology, 2021, 66, 245008.	1.6	3
15	Modular segregation of task-dependent brain networks contributes to the development of executive function in children. NeuroImage, 2020, 206, 116334.	2.1	28
16	Rapid image deconvolution and multiview fusion for optical microscopy. Nature Biotechnology, 2020, 38, 1337-1346.	9.4	105
17	Low-dose real-time X-ray imaging with nontoxic double perovskite scintillators. Light: Science and Applications, 2020, 9, 112.	7.7	272
18	Imaging mitochondrial complex I activation during a vibrotactile stimulation: A PET study using [18F]BCPP-EF in the conscious monkey brain. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2521-2532.	2.4	4

#	Article	IF	Citations
19	FBP-Net for direct reconstruction of dynamic PET images. Physics in Medicine and Biology, 2020, 65, 235008.	1.6	30
20	Improved Patlak Reconstruction from Low-dose Dynamic PET Using Temporal Non-local Neural Network. , 2020, , .		0
21	Topological Charge Detection Using Generalized Contour-Sum Method from Distorted Donut-Shaped Optical Vortex Beams: Experimental Comparison of Closed Path Determination Methods. Applied Sciences (Switzerland), 2019, 9, 3956.	1.3	3
22	PET image denoising using unsupervised deep learning. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2780-2789.	3.3	157
23	Training on Abacus-Based Mental Calculation Enhances Visuospatial Working Memory in Children. Journal of Neuroscience, 2019, 39, 6439-6448.	1.7	29
24	Nonlocal total variation based dynamic PET image reconstruction with low-rank constraints. Physica Scripta, 2019, 94, 065202.	1.2	7
25	Simultaneous reconstruction and segmentation of MRI image by manifold learning. , 2019, , .		1
26	3D Tensor Based Nonlocal Low Rank Approximation in Dynamic PET Reconstruction. Sensors, 2019, 19, 5299.	2.1	7
27	Simultaneous estimation and segmentation from projection data in dynamic PET. Medical Physics, 2019, 46, 1245-1259.	1.6	5
28	Non‑invasive reconstruction of dynamic myocardial transmembrane potential with graph‑based total variation constraints. Healthcare Technology Letters, 2019, 6, 181-186.	1.9	3
29	A Meshfree Representation for Cardiac Medical Image Computing. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-12.	2.2	30
30	Robust recovery of myocardial kinematics using dual â„‹ âˆž $mathcal {H}_{infty }$ criteria. Multimedia Tools and Applications, 2018, 77, 23043-23071.	2.6	10
31	Nonlocal Low-Rank and Total Variation Constrained PET Image Reconstruction. , 2018, , .		3
32	Direct delineation of myocardial infarction without contrast agents using a joint motion feature learning architecture. Medical Image Analysis, 2018, 50, 82-94.	7.0	96
33	A Genetically Encoded Biosensor Strategy for Quantifying Non-muscle Myosin II Phosphorylation Dynamics in Living Cells and Organisms. Cell Reports, 2018, 24, 1060-1070.e4.	2.9	13
34	Joint reconstruction of dynamic PET activity and kinetic parametric images using total variation constrained dictionary sparse coding. Inverse Problems, 2017, 33, 055011.	1.0	5
35	Deep reconstruction model for dynamic PET images. PLoS ONE, 2017, 12, e0184667.	1.1	40
36	Separation of a Mixture of Simultaneous Dual-Tracer PET Signals: A Data-Driven Approach. IEEE Transactions on Nuclear Science, 2017, 64, 2588-2597.	1.2	13

#	ARTICLE	IF	CITATIONS
37	Low Dose PET Image Reconstruction with Total Variation Using Alternating Direction Method. PLoS ONE, 2016, 11, e0166871.	1.1	7
38	Quasi-plane shear wave propagation induced by acoustic radiation force with a focal line region: a simulation study. Australasian Physical and Engineering Sciences in Medicine, 2016, 39, 187-197.	1.4	2
39	Simultaneous multiview capture and fusion improves spatial resolution in wide-field and light-sheet microscopy. Optica, 2016, 3, 897.	4.8	53
40	Reconstruction for 3D PET Based on Total Variation Constrained Direct Fourier Method. PLoS ONE, 2015, 10, e0138483.	1.1	3
41	Sparse/Low Rank Constrained Reconstruction for Dynamic PET Imaging. PLoS ONE, 2015, 10, e0142019.	1.1	2
42	Sparse representation and dictionary learning penalized image reconstruction for positron emission tomography. Physics in Medicine and Biology, 2015, 60, 807-823.	1.6	41
43	Simultaneous Reconstruction and Segmentation of Dynamic PET via Low-Rank and Sparse Matrix Decomposition. IEEE Transactions on Biomedical Engineering, 2015, 62, 1784-1795.	2.5	19
44	Untwisting the Caenorhabditis elegans embryo. ELife, 2015, 4, .	2.8	33
45	Automated Detection Framework of the Calcified Plaque with Acoustic Shadowing in IVUS Images. PLoS ONE, 2014, 9, e109997.	1.1	17
46	Changes in Topological Organization of Functional PET Brain Network with Normal Aging. PLoS ONE, 2014, 9, e88690.	1.1	37
47	Nonlinear Dual Reconstruction of SPECT Activity and Attenuation Images. PLoS ONE, 2014, 9, e106951.	1.1	0
48	Using MicroPET Imaging in Quantitative Verification of the Acupuncture Effect in Ischemia Stroke Treatment. Scientific Reports, 2013, 3, 1070.	1.6	31
49	Robust Framework for PET Image Reconstruction Incorporating System and Measurement Uncertainties. PLoS ONE, 2012, 7, e32224.	1.1	6
50	Meshfree implementation of individualized active cardiac dynamics. Computerized Medical Imaging and Graphics, 2010, 34, 91-103.	3.5	36
51	Using MicroPET Imaging in Quantitative Verification of Acupuncture Effect in Ischemia Stroke Treatment. Nature Precedings, 2010, , .	0.1	1
52	State-Space Analysis of Cardiac Motion With Biomechanical Constraints. IEEE Transactions on Image Processing, 2007, 16, 901-917.	6.0	19
53	Physiome-Modelâ€"Based State-Space Framework for Cardiac Deformation Recovery. Academic Radiology, 2007, 14, 1341-1349.	1.3	21