

Cheng-Ying Chou

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

509
citations

687363

13
h-index

677142

22
g-index

50
all docs

50
docs citations

50
times ranked

683
citing authors

#	ARTICLE	IF	CITATIONS
1	An extended diffraction-enhanced imaging method for implementing multiple-image radiography. <i>Physics in Medicine and Biology</i> , 2007, 52, 1923-1945.	3.0	55
2	Accelerating image reconstruction in three-dimensional optoacoustic tomography on graphics processing units. <i>Medical Physics</i> , 2013, 40, 023301.	3.0	53
3	Digital holographic microtomography for high-resolution refractive index mapping of live cells. <i>Journal of Biophotonics</i> , 2013, 6, 416-424.	2.3	53
4	A fast forward projection using multithreads for multirays on GPUs in medical image reconstruction. <i>Medical Physics</i> , 2011, 38, 4052-4065.	3.0	44
5	Ultrasound sonication with microbubbles disrupts blood vessels and enhances tumor treatments of anticancer nanodrug. <i>International Journal of Nanomedicine</i> , 2012, 7, 2143.	6.7	43
6	A Novel Sensor Placement Strategy for an IoT-Based Power Grid Monitoring System. <i>IEEE Internet of Things Journal</i> , 2020, 7, 7773-7782.	8.7	29
7	Numerical modeling of nanodrug distribution in tumors with heterogeneous vasculature. <i>PLoS ONE</i> , 2017, 12, e0189802.	2.5	28
8	Influence of imaging geometry on noise texture in quantitative in-line X-ray phase-contrast imaging. <i>Optics Express</i> , 2009, 17, 14466.	3.4	19
9	Image reconstruction in intravascular photoacoustic imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 2067-2077.	3.0	18
10	Noise texture and signal detectability in propagation-based X-ray phase-contrast tomography. <i>Medical Physics</i> , 2010, 37, 270-281.	3.0	15
11	Toward a higher yield: a wireless sensor network-based temperature monitoring and fan-circulating system for precision cultivation in plant factories. <i>Precision Agriculture</i> , 2018, 19, 929-956.	6.0	15
12	Analysis of ideal observer signal detectability in phase-contrast imaging employing linear shift-invariant optical systems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 2648.	1.5	14
13	Investigation of the Spatiotemporal Responses of Nanoparticles in Tumor Tissues with a Small-Scale Mathematical Model. <i>PLoS ONE</i> , 2013, 8, e59135.	2.5	14
14	Effects of early ketamine exposure on cerebral gray matter volume and functional connectivity. <i>Scientific Reports</i> , 2020, 10, 15488.	3.3	14
15	Image reconstruction in quantitative X-ray phase-contrast imaging employing multiple measurements. <i>Optics Express</i> , 2007, 15, 10002.	3.4	11
16	A fast adaptive power scheme based on temperature distribution and convergence value for optimal hyperthermia treatment. <i>Applied Thermal Engineering</i> , 2012, 37, 103-111.	6.0	10
17	On Real-Time Detection of Line Sags in Overhead Power Grids Using an IoT-Based Monitoring System: Theoretical Basis, System Implementation, and Long-Term Field Verification. <i>IEEE Internet of Things Journal</i> , 2022, 9, 13096-13112.	8.7	10
18	FDOPA kinetics analysis in PET images for Parkinson's disease diagnosis by use of particle swarm optimization. , 2012, , .		8

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19	Accelerating Image Reconstruction in Dual-Head PET System by GPU and Symmetry Properties. PLoS ONE, 2012, 7, e50540.	2.5	8
20	Ultra-Short-Term Wind Speed Forecasting for Wind Power Based on Gated Recurrent Unit. , 2020, , .		8
21	Effective Anatomical Priors for Emission Tomographic Reconstruction. Journal of Medical and Biological Engineering, 2015, 35, 52-61.	1.8	5
22	A LoRa-Based Optimal Path Routing Algorithm for Smart Grid. , 2018, , .		5
23	An IoT-based Temperature Monitoring System for Underground Cable Tunnels. , 2019, , .		5
24	Analyzer-based phase-contrast x-ray imaging of carotid plaque microstructure. American Journal of Surgery, 2012, 204, 631-636.	1.8	4
25	Impact Assessment of Various Wind Speeds on Dynamic Thermal Rating of the Terrain-Located EHV Power Grids: A Case of Valley in Taiwan. IEEE Access, 2018, 6, 48311-48323.	4.2	4
26	Coronary CT angiography-based estimation of myocardial perfusion territories for coronary artery FFR and wall shear stress simulation. Scientific Reports, 2021, 11, 13855.	3.3	4
27	An intelligent control strategy for energy storage systems in solar power generation based on long-short-term power prediction. , 2020, , .		3
28	Boundary reconstruction in limited-angle x-ray phase-contrast tomography. , 2009, , .		2
29	Image reconstruction in phase-contrast tomography exploiting the second-order statistical properties of the projection data. Optics Express, 2011, 19, 24396.	3.4	2
30	Urban Area PM _{2.5} Prediction with Machine Methods: An On-Board Monitoring System. , 2018, , .		2
31	Influence of imaging geometry on noise texture in x-ray in-line phase-contrast imaging. Proceedings of SPIE, 2008, , .	0.8	1
32	Ultrafast image reconstruction of a dual-head PET system by use of CUDA architecture. , 2011, , .		1
33	Quantitative three-dimensional reconstruction of limited-angle experimental measurements in diffraction tomography. , 2012, , .		1
34	Positron Emitter Depth Distribution in PMMA Irradiated With 130-MeV Protons Measured Using TOF-PET Detectors. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 345-354.	3.7	1
35	Statistically optimal image reconstruction in propagation-based phase-contrast tomography. , 2006, 6318, 269.		0
36	A comparison of a generalized DEI method with multiple-image radiography. , 2006, 6318, 387.		0

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37	Noise properties of in-line x-ray imaging and tomography. Proceedings of SPIE, 2008, , .	0.8	0
38	Multi-bandwidth image reconstruction in photoacoustic tomography. Proceedings of SPIE, 2008, , .	0.8	0
39	Statistical properties of X-ray phase-contrast tomography. , 2009, 2009, 6648-50.		0
40	Investigation of quantitative polychromatic x-ray phase-contrast tomography for tissue characterization. Proceedings of SPIE, 2009, , .	0.8	0
41	Application of limited-view image reconstruction method to intravascular photoacoustic tomography. , 2010, , .		0
42	Weighted least-squares image reconstruction in phase-contrast tomography. Proceedings of SPIE, 2010, , .	0.8	0
43	Contributions to ideal observer SNRs in propagation-based x-ray phase-contrast imaging. Proceedings of SPIE, 2010, , .	0.8	0
44	Time-of-flight image reconstruction with TV minimization constraint for a dual-head small animal PET system. , 2012, , .		0
45	Image reconstruction and signal detectability in dual-head small animal PET. , 2012, , .		0
46	A continuous-coordinate image reconstruction method for list-mode time-of-flight position emission tomography. , 2013, , .		0
47	TV-based DOI De-blurring model for the dual-head flat-panel PET system. , 2013, , .		0
48	Attenuation and activity distributions in flat-panel TOF-PET estimated by the alternating-direction method of multipliers. , 2015, , .		0
49	Multi-modality image reconstruction with a runtime segmented anatomical prior. , 2015, , .		0
50	Quantification of signal detection performance degradation induced by phase-retrieval in propagation-based x-ray phase-contrast imaging. , 2016, , .		0