Jaya Prakash

List of Publications by Year in descending order

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ΙΛΥΛ ΟΟΛΚΛΟΗ

#	Article	IF	CITATIONS
1	Bioengineered bacterial vesicles as biological nano-heaters for optoacoustic imaging. Nature Communications, 2019, 10, 1114.	12.8	128
2	Anam-Net: Anamorphic Depth Embedding-Based Lightweight CNN for Segmentation of Anomalies in COVID-19 Chest CT Images. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 932-946.	11.3	95
3	Basis pursuit deconvolution for improving model-based reconstructed images in photoacoustic tomography. Biomedical Optics Express, 2014, 5, 1363.	2.9	69
4	Least squares QR-based decomposition provides an efficient way of computing optimal regularization parameter in photoacoustic tomography. Journal of Biomedical Optics, 2013, 18, 080501.	2.6	53
5	Sparse Recovery Methods Hold Promise for Diffuse Optical Tomographic Image Reconstruction. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 74-82.	2.9	51
6	WST11 Vascular Targeted Photodynamic Therapy Effect Monitoring by Multispectral Optoacoustic Tomography (MSOT) in Mice. Theranostics, 2018, 8, 723-734.	10.0	45
7	Spatial heterogeneity of oxygenation and haemodynamics in breast cancer resolved in vivo by conical multispectral optoacoustic mesoscopy. Light: Science and Applications, 2020, 9, 57.	16.6	45
8	Three-dimensional optoacoustic reconstruction using fast sparse representation. Optics Letters, 2017, 42, 979.	3.3	37
9	Toward realâ€ŧime availability of 3D temperature maps created with temporally constrained reconstruction. Magnetic Resonance in Medicine, 2014, 71, 1394-1404.	3.0	35
10	A Synthetic Total Impulse Response Characterization Method for Correction of Hand-Held Optoacoustic Images. IEEE Transactions on Medical Imaging, 2020, 39, 3218-3230.	8.9	31
11	Model-Resolution-Based Basis Pursuit Deconvolution Improves Diffuse Optical Tomographic Imaging. IEEE Transactions on Medical Imaging, 2014, 33, 891-901.	8.9	30
12	Maximum Entropy Based Non-Negative Optoacoustic Tomographic Image Reconstruction. IEEE Transactions on Biomedical Engineering, 2019, 66, 2604-2616.	4.2	28
13	Soft ultrasound priors in optoacoustic reconstruction: Improving clinical vascular imaging. Photoacoustics, 2020, 19, 100172.	7.8	26
14	Accelerating frequency-domain diffuse optical tomographic image reconstruction using graphics processing units. Journal of Biomedical Optics, 2010, 15, 066009.	2.6	25
15	A LSQRâ€ŧype method provides a computationally efficient automated optimal choice of regularization parameter in diffuse optical tomography. Medical Physics, 2013, 40, 033101.	3.0	25
16	Red blood cell phenotype fidelity following glycerol cryopreservation optimized for research purposes. PLoS ONE, 2018, 13, e0209201.	2.5	25
17	Fractional Regularization to Improve Photoacoustic Tomographic Image Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 1935-1947.	8.9	24
18	Targeting Elastase for Molecular Imaging of Early Atherosclerotic Lesions. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 525-533.	2.4	22

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19	Croconaine-based nanoparticles enable efficient optoacoustic imaging of murine brain tumors. Photoacoustics, 2021, 22, 100263.	7.8	19
20	Integrin-Targeted Hybrid Fluorescence Molecular Tomography/X-ray Computed Tomography for Imaging Tumor Progression and Early Response in Non-Small Cell Lung Cancer. Neoplasia, 2017, 19, 8-16.	5.3	17
21	Binary photoacoustic tomography for improved vasculature imaging. Journal of Biomedical Optics, 2021, 26, .	2.6	15
22	Short-wavelength optoacoustic spectroscopy based on water muting. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4007-4014.	7.1	14
23	Siamese-SR: A Siamese Super-Resolution Model for Boosting Resolution of Digital Rock Images for Improved Petrophysical Property Estimation. IEEE Transactions on Image Processing, 2022, 31, 3479-3493.	9.8	12
24	Assessment of asthmatic inflammation using hybrid fluorescence molecular tomography–x-ray computed tomography. Journal of Biomedical Optics, 2016, 21, 015009.	2.6	10
25	Nonâ€local means improves totalâ€variation constrained photoacoustic image reconstruction. Journal of Biophotonics, 2021, 14, e202000191.	2.3	10
26	Reporter gene-based optoacoustic imaging of E. coli targeted colon cancer in vivo. Scientific Reports, 2021, 11, 24430.	3.3	8
27	Full-frequency correction of spatial impulse response in back-projection scheme using space-variant filtering for optoacoustic mesoscopy. Photoacoustics, 2020, 19, 100193.	7.8	7
28	Multi GPU parallelization of maximum likelihood expectation maximization method for digital rock tomography data. Scientific Reports, 2021, 11, 18536.	3.3	6
29	Virtual soldering environment using touch and gesture for engineering labs education. , 2010, , .		5
30	Data-resolution based optimal choice of minimum required measurements for image-guided diffuse optical tomography. Optics Letters, 2013, 38, 88.	3.3	5
31	Spatially variant regularization based on model resolution and fidelity embedding characteristics improves photoacoustic tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	5
32	Nonlinear optoacoustic readings from diffusive media at nearâ€infrared wavelengths. Journal of Biophotonics, 2018, 11, e201600310.	2.3	4
33	Optoacoustic Tomography Using Accelerated Sparse Recovery and Coherence Factor Weighting. Tomography, 2016, 2, 138-145.	1.8	3
34	Prior image based temporally constrained reconstruction algorithm for magnetic resonance guided high intensity focused ultrasound. Medical Physics, 2015, 42, 6804-6814.	3.0	2
35	Weighted modelâ€based optoacoustic reconstruction for partialâ€view geometries. Journal of Biophotonics, 2022, , e202100334.	2.3	2
36	A PMUT based photoacoustic system as a microfluidic concentration detector. , 2022, , .		2

#	Article	IF	CITATIONS
37	Modeling the variation in speed of sound between couplant and tissue improves the spectral accuracy of multispectral optoacoustic tomography. , 2019, , .		1
38	Cooled infrared optoacoustic spectroscopy (CIROAS) for accurate sensing based on water muting. , 2021, , .		0
39	Fractional regularization improves photoacoustic image reconstruction. , 2021, , .		0
40	Fast sparse recovery and coherence factor weighting in optoacoustic tomography. Proceedings of SPIE, 2017, , .	0.8	0