Sandeep Kumar Kalva

List of Publications by Year
in descending order

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36 papers	599 citations	687363 13 h-index	610901 24 g-index
36 all docs	36 docs citations	36 times ranked	441 citing authors

#	Article	IF	Citations
1	Carbazoleâ€Linked Nearâ€Infrared Azaâ€BODIPY Dyes as Triplet Sensitizers and Photoacoustic Contrast Agents for Deepâ€Tissue Imaging. Chemistry - A European Journal, 2017, 23, 6570-6578.	3.3	83
2	Deep Neural Network-Based Sinogram Super-Resolution and Bandwidth Enhancement for Limited-Data Photoacoustic Tomography. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2660-2673.	3.0	60
3	Experimental validation of tangential resolution improvement in photoacoustic tomography using modified delay-and-sum reconstruction algorithm. Journal of Biomedical Optics, 2016, 21, 086011.	2.6	58
4	Deep neural network-based bandwidth enhancement of photoacoustic data. Journal of Biomedical Optics, 2017, 22, 1.	2.6	56
5	Real-time 3D optoacoustic tracking of cell-sized magnetic microrobots circulating in the mouse brain vasculature. Science Advances, 2022, 8, eabm9132.	10.3	48
6	High-speed, low-cost, pulsed-laser-diode-based second-generation desktop photoacoustic tomography system. Optics Letters, 2019, 44, 81.	3.3	40
7	Fractional Regularization to Improve Photoacoustic Tomographic Image Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 1935-1947.	8.9	24
8	Image-guided filtering for improving photoacoustic tomographic image reconstruction. Journal of Biomedical Optics, 2018, 23, 1.	2.6	23
9	A Comparative Study of Continuous Versus Stop-and-Go Scanning in Circular Scanning Photoacoustic Tomography. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-9.	2.9	18
10	PA-Fuse: deep supervised approach for the fusion of photoacoustic images with distinct reconstruction characteristics. Biomedical Optics Express, 2019, 10, 2227.	2.9	18
11	Accelerated image reconstruction using extrapolated Tikhonov filtering for photoacoustic tomography. Medical Physics, 2018, 45, 3749-3767.	3.0	15
12	Single-sweep volumetric optoacoustic tomography of whole mice. Photonics Research, 2021, 9, 899.	7.0	15
13	Binary photoacoustic tomography for improved vasculature imaging. Journal of Biomedical Optics, 2021, 26, .	2.6	15
14	Modeling Errors Compensation With Total Least Squares for Limited Data Photoacoustic Tomography. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-14.	2.9	14
15	Rapid Volumetric Optoacoustic Tracking of Nanoparticle Kinetics across Murine Organs. ACS Applied Materials & Interfaces, 2022, 14, 172-178.	8.0	13
16	Use of acoustic reflector to make a compact photoacoustic tomography system. Journal of Biomedical Optics, 2017, 22, 026009.	2.6	12
17	Calibrating reconstruction radius in a multi single-element ultrasound-transducer-based photoacoustic computed tomography system. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 764.	1.5	12
18	Flash Scanning Volumetric Optoacoustic Tomography for High Resolution Wholeâ€Body Tracking of Nanoagent Kinetics and Biodistribution. Laser and Photonics Reviews, 2021, 15, 2000484.	8.7	12

#	Article	IF	Citations
19	Vector extrapolation methods for accelerating iterative reconstruction methods in limited-data photoacoustic tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	11
20	A High-performance Compact Photoacoustic Tomography System for In Vivo Small-animal Brain Imaging. Journal of Visualized Experiments, 2017, , .	0.3	10
21	Nonâ€local means improves totalâ€variation constrained photoacoustic image reconstruction. Journal of Biophotonics, 2021, 14, e202000191.	2.3	10
22	Rapid Volumetric Optoacoustic Tracking of Individual Microparticles In Vivo Enabled by a NIR-Absorbing Goldâ€“Carbon Shell. ACS Applied Materials & Interfaces, 2021, 13, 48423-48432.	8.0	8
23	Dimensionality reduced plug and play priors for improving photoacoustic tomographic imaging with limited noisy data. Biomedical Optics Express, 2021, 12, 1320.	2.9	7
24	Spatially variant regularization based on model resolution and fidelity embedding characteristics improves photoacoustic tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	5
25	Modified delay-and-sum reconstruction algorithm to improve tangential resolution in photoacoustic tomography. Proceedings of SPIE, 2017, , .	0.8	2
26	Pulsed laser diode photoacoustic tomography (PLD-PAT) system for fast in vivo imaging of small animal brain. Proceedings of SPIE, 2017, , .	0.8	2
27	Vector extrapolation methods for accelerating iterative reconstruction methods in limited-data photoacoustic tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	2
28	Pulsed laser diode based photoacoustic tomography system using multiple acoustic reflector based single element ultrasound transducers. , 2019, , .		2
29	Pulsed Laser Diode-Based Desktop Photoacoustic Tomography for Monitoring Wash-In and Wash-Out of Dye in Rat Cortical Vasculature. Journal of Visualized Experiments, 2019, , .	0.3	1
30	Whole-body visualization of nanoagent kinetics in mice with flash scanning volumetric optoacoustic tomography. , 2021, , .		1
31	Multiple single-element transducer photoacoustic computed tomography system. , 2018, , .		1
32	Photo-acoustic tomographic image reconstruction from reduced data using physically inspired regularization. Journal of Instrumentation, 2020, 15, P12028-P12028.	1.2	1
33	Compact photoacoustic tomography system. Proceedings of SPIE, 2017, , .	0.8	0
34	Comparison of continuous and stop-and-go scanning techniques in photoacoustic tomography. , 2018, , .		0
35	Optoacoustic visualization of individual core-shell microparticles in vivo. , 2022, , .		0
36	Whole body imaging of mice in under 2 sec with single-sweep volumetric optoacoustic tomography (sSVOT). , 2022, , .		0