

# Sandeep Kumar Kalva

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

599  
citations

777949

13  
h-index

685536

24  
g-index

36  
all docs

36  
docs citations

36  
times ranked

516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optoacoustic visualization of individual core-shell microparticles in vivo. , 2022, , .		0
2	Whole body imaging of mice in under 2 sec with single-sweep volumetric optoacoustic tomography (sSVOT). , 2022, , .		0
3	Rapid Volumetric Optoacoustic Tracking of Nanoparticle Kinetics across Murine Organs. ACS Applied Materials & Interfaces, 2022, 14, 172-178.	4.0	13
4	Real-time 3D optoacoustic tracking of cell-sized magnetic microrobots circulating in the mouse brain vasculature. Science Advances, 2022, 8, eabm9132.	4.7	48
5	Non-local means improves total-variation constrained photoacoustic image reconstruction. Journal of Biophotonics, 2021, 14, e202000191.	1.1	10
6	Dimensionality reduced plug and play priors for improving photoacoustic tomographic imaging with limited noisy data. Biomedical Optics Express, 2021, 12, 1320.	1.5	7
7	Flash Scanning Volumetric Optoacoustic Tomography for High Resolution Whole-Body Tracking of Nanoagent Kinetics and Biodistribution. Laser and Photonics Reviews, 2021, 15, 2000484.	4.4	12
8	Whole-body visualization of nanoagent kinetics in mice with flash scanning volumetric optoacoustic tomography. , 2021, , .		1
9	Single-sweep volumetric optoacoustic tomography of whole mice. Photonics Research, 2021, 9, 899.	3.4	15
10	Binary photoacoustic tomography for improved vasculature imaging. Journal of Biomedical Optics, 2021, 26, .	1.4	15
11	Rapid Volumetric Optoacoustic Tracking of Individual Microparticles <i>In Vivo</i> Enabled by a NIR-Absorbing Gold-Carbon Shell. ACS Applied Materials & Interfaces, 2021, 13, 48423-48432.	4.0	8
12	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.	1.7	60
13	Photo-acoustic tomographic image reconstruction from reduced data using physically inspired regularization. Journal of Instrumentation, 2020, 15, P12028-P12028.	0.5	1
14	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.	1.9	18
15	Modeling Errors Compensation With Total Least Squares for Limited Data Photoacoustic Tomography. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-14.	1.9	14
16	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, , .	0.2	1
17	Fractional Regularization to Improve Photoacoustic Tomographic Image Reconstruction. IEEE Transactions on Medical Imaging, 2019, 38, 1935-1947.	5.4	24
18	Pulsed laser diode based photoacoustic tomography system using multiple acoustic reflector based single element ultrasound transducers. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	PA-Fuse: deep supervised approach for the fusion of photoacoustic images with distinct reconstruction characteristics. <i>Biomedical Optics Express</i> , 2019, 10, 2227.	1.5	18
20	High-speed, low-cost, pulsed-laser-diode-based second-generation desktop photoacoustic tomography system. <i>Optics Letters</i> , 2019, 44, 81.	1.7	40
21	Calibrating reconstruction radius in a multi single-element ultrasound-transducer-based photoacoustic computed tomography system. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 764.	0.8	12
22	Accelerated image reconstruction using extrapolated Tikhonov filtering for photoacoustic tomography. <i>Medical Physics</i> , 2018, 45, 3749-3767.	1.6	15
23	Vector extrapolation methods for accelerating iterative reconstruction methods in limited-data photoacoustic tomography. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	2
24	Vector extrapolation methods for accelerating iterative reconstruction methods in limited-data photoacoustic tomography. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	11
25	Image-guided filtering for improving photoacoustic tomographic image reconstruction. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	23
26	Multiple single-element transducer photoacoustic computed tomography system. , 2018, , .		1
27	Comparison of continuous and stop-and-go scanning techniques in photoacoustic tomography. , 2018, , .		0
28	Spatially variant regularization based on model resolution and fidelity embedding characteristics improves photoacoustic tomography. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	5
29	Carbazole-Linked Near-Infrared Aza-BODIPY Dyes as Triplet Sensitizers and Photoacoustic Contrast Agents for Deep-Tissue Imaging. <i>Chemistry - A European Journal</i> , 2017, 23, 6570-6578.	1.7	83
30	Use of acoustic reflector to make a compact photoacoustic tomography system. <i>Journal of Biomedical Optics</i> , 2017, 22, 026009.	1.4	12
31	Modified delay-and-sum reconstruction algorithm to improve tangential resolution in photoacoustic tomography. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
32	Pulsed laser diode photoacoustic tomography (PLD-PAT) system for fast in vivo imaging of small animal brain. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
33	A High-performance Compact Photoacoustic Tomography System for <em>In Vivo</em> Small-animal Brain Imaging. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	10
34	Compact photoacoustic tomography system. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
35	Deep neural network-based bandwidth enhancement of photoacoustic data. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	56
36	Experimental validation of tangential resolution improvement in photoacoustic tomography using modified delay-and-sum reconstruction algorithm. <i>Journal of Biomedical Optics</i> , 2016, 21, 086011.	1.4	58