

# Mithun Kuniyil Ajith Singh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1758811/publications.pdf>

Version: 2024-02-01

59  
papers

571  
citations

623188

14  
h-index

713013

21  
g-index

62  
all docs

62  
docs citations

62  
times ranked

474  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of LED-based photoacoustic imaging using sign coherence factor based on lag-delay-multiply-and-sum beamformer. , 2022, , .		2
2	Guidance of lymphaticovenous anastomosis using LED-based photoacoustic lymphangiography: a human volunteer study. , 2022, , .		0
3	Three-dimensional handheld LED-based photoacoustic/ultrasound imaging: A potential point-of-care tool for diagnosing peripheral arterial disease. , 2022, , .		0
4	Correction to: Overview of Coronavirus Disease and Imaging-Based Diagnostic Techniques. Medical Virology, 2021, , C1-C1.	2.1	0
5	Photoacoustic Imaging of Human Vasculature Using LED versus Laser Illumination: A Comparison Study on Tissue Phantoms and In Vivo Humans. Sensors, 2021, 21, 424.	2.1	24
6	Breast imaging using an LED-based photoacoustic and ultrasound imaging system: a proof-of-concept study. , 2021, , .		1
7	Image quality enhancement for LED-based photoacoustic imaging. , 2021, , .		1
8	Modular and flexible 3D printed holder for deep tissue imaging with LED array based photoacoustic imaging. , 2021, , .		0
9	Preclinical cancer imaging using a multispectral LED-based photoacoustic and ultrasound imaging system. , 2021, , .		2
10	Generative adversarial network-based photoacoustic image reconstruction from bandlimited and limited-view data. , 2021, , .		2
11	In vivo demonstration of reflection artifact reduction in LED-based photoacoustic imaging using deep learning. , 2021, , .		0
12	Optimizing acoustic detection for deep-tissue LED-based photoacoustic imaging. , 2021, , .		1
13	Biomedical Photoacoustic Imaging and Sensing Using Affordable Resources. Sensors, 2021, 21, 2572.	2.1	3
14	Technical validation studies of a dual-wavelength LED-based photoacoustic and ultrasound imaging system. Photoacoustics, 2021, 22, 100267.	4.4	9
15	Oxygen Saturation Imaging Using LED-Based Photoacoustic System. Sensors, 2021, 21, 283.	2.1	32
16	Photoacoustic imaging of the human placental vasculature. Journal of Biophotonics, 2020, 13, e201900167.	1.1	36
17	Optimizing Irradiation Geometry in LED-Based Photoacoustic Imaging with 3D Printed Flexible and Modular Light Delivery System. Sensors, 2020, 20, 3789.	2.1	10
18	In Vivo Tumor Vascular Imaging with Light Emitting Diode-Based Photoacoustic Imaging System. Sensors, 2020, 20, 4503.	2.1	20

#	ARTICLE	IF	CITATIONS
19	Portable and Affordable Light Source-Based Photoacoustic Tomography. <i>Sensors</i> , 2020, 20, 6173.	2.1	33
20	Towards Clinical Translation of LED-Based Photoacoustic Imaging: A Review. <i>Sensors</i> , 2020, 20, 2484.	2.1	41
21	Light Emitting Diodes Based Photoacoustic and Ultrasound Tomography: Imaging Aspects and Applications. <i>Progress in Optical Science and Photonics</i> , 2020, , 245-266.	0.3	1
22	Clinical Translation of Photoacoustic Imaging—Opportunities and Challenges from an Industry Perspective. <i>Progress in Optical Science and Photonics</i> , 2020, , 379-393.	0.3	6
23	Real-time improvement of LED-based photoacoustic image quality using intermittent pulse echo acquisitions. , 2020, , .		2
24	Deep learning-enhanced LED-based photoacoustic imaging. , 2020, , .		7
25	LED-based photoacoustic imaging for early detection of joint inflammation in rodents: towards achieving 3Rs in rheumatoid arthritis research. , 2020, , .		2
26	Functional, molecular and structural imaging using LED-based photoacoustic and ultrasound imaging system.. , 2020, , .		2
27	Tomographic imaging with an ultrasound and LED-based photoacoustic system. <i>Biomedical Optics Express</i> , 2020, 11, 2152.	1.5	29
28	Imaging tumor vasculature using LED based photoacoustic system. , 2020, , .		0
29	Overview of Coronavirus Disease and Imaging-Based Diagnostic Techniques. <i>Medical Virology</i> , 2020, , 73-107.	2.1	0
30	Tomographic imaging with an LED-based photoacoustic-ultrasound system. , 2020, , .		0
31	Low-cost photoacoustic computed tomography system using light-emitting-diodes. , 2020, , .		1
32	Photoacoustic imaging capabilities of light emitting diodes (LED) and laser sources: a comparison study. , 2020, , .		1
33	Light emitting diode based photoacoustic/ultrasound imaging reveals fast dynamic contrast in liver and changes in blood oxygenation (Conference Presentation). , 2020, , .		0
34	Point-of-care functional and molecular imaging using LED-based photoacoustics. , 2019, , .		0
35	International Photoacoustic Standardisation Consortium (IPASC): overview (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		1
36	Imaging of human peripheral blood vessels during cuff occlusion with a compact LED-based photoacoustic and ultrasound system. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
37	In vivo demonstration of real-time oxygen saturation imaging using a portable and affordable LED-based multispectral photoacoustic and ultrasound imaging system. , 2019, , .		2
38	Real-time guidance of minimally-invasive peripheral vascular access procedures using a point of care LED-based photoacoustic and ultrasound imaging system. , 2019, , .		0
39	3D printed kidney phantoms for an LED-based photoacoustic and ultrasound imaging system. , 2019, , .		0
40	Enhancing photoacoustic visualization of medical devices with elastomeric nanocomposite coatings. , 2019, , .		1
41	LED-Based Photoacoustic and Ultrasound Imaging System for Guiding Minimally Invasive Procedures with Peripheral Tissue Targets. , 2018, , .		0
42	Handheld Real-Time LED-Based Photoacoustic and Ultrasound Imaging System for Accurate Visualization of Clinical Metal Needles and Superficial Vasculature to Guide Minimally Invasive Procedures. Sensors, 2018, 18, 1394.	2.1	75
43	Human placental vasculature imaging using an LED-based photoacoustic/ultrasound imaging system. , 2018, , .		5
44	High-speed photoacoustic imaging using an LED-based photoacoustic imaging system. , 2018, , .		1
45	Real-time in vivo imaging of human lymphatic system using an LED-based photoacoustic/ultrasound imaging system. , 2018, , .		3
46	Multispectral photoacoustic characterization of ICG and porcine blood using an LED-based photoacoustic imaging system. , 2018, , .		0
47	Characterization and technical validation of a multi-wavelength LED-based photoacoustic/ultrasound imaging system (Conference Presentation). , 2018, , .		1
48	Photoacoustic reflection artifact reduction using photoacoustic-guided focused ultrasound: comparison between plane-wave and element-by-element synthetic backpropagation approach. Biomedical Optics Express, 2017, 8, 2245.	1.5	15
49	Identification and removal of reflection artifacts in minimally invasive photoacoustic imaging for accurate visualization of brachytherapy seeds. Proceedings of SPIE, 2017, , .	0.8	2
50	In vivo demonstration of reflection artifact reduction in photoacoustic imaging using synthetic aperture photoacoustic-guided focused ultrasound (PAFUSion). Biomedical Optics Express, 2016, 7, 2955.	1.5	42
51	Photoacoustic-guided focused ultrasound for accurate visualization of brachytherapy seeds with the photoacoustic needle. Journal of Biomedical Optics, 2016, 21, 120501.	1.4	25
52	Reflection-artifact-free photoacoustic imaging using PAFUSion (photoacoustic-guided focused) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14		
53	Handheld Probe-Based Dual Mode Ultrasound/Photoacoustics for Biomedical Imaging. Progress in Optical Science and Photonics, 2016, , 209-247.	0.3	17
54	Photoacoustic-guided focused ultrasound (PAFUSion) for identifying reflection artifacts in photoacoustic imaging. Photoacoustics, 2015, 3, 123-131.	4.4	61

#	ARTICLE	IF	CITATIONS
55	Flow imaging using an integrated photoacoustic/ultrasound probe. , 2015, , .		1
56	PhotoAcoustic-guided Focused UltraSound imaging (PAFUSion) for reducing reflection artifacts in photoacoustic imaging. Proceedings of SPIE, 2015, , .	0.8	0
57	PhotoAcoustic-guided Focused UltraSound imaging (PAFUSion) for reducing reflection artifacts in photoacoustic imaging. , 2015, , .		0
58	Design considerations for ultrasound detectors in photoacoustic breast imaging. , 2013, , .		1
59	Design and evaluation of a laboratory prototype system for 3D photoacoustic full breast tomography. Biomedical Optics Express, 2013, 4, 2555.	1.5	36