

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	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. <i>Sensors</i> , 2018, 18, 1394.	2.1	75
2	Photoacoustic-guided focused ultrasound (PAFUSion) for identifying reflection artifacts in photoacoustic imaging. <i>Photoacoustics</i> , 2015, 3, 123-131.	4.4	61
3	In vivo demonstration of reflection artifact reduction in photoacoustic imaging using synthetic aperture photoacoustic-guided focused ultrasound (PAFUSion). <i>Biomedical Optics Express</i> , 2016, 7, 2955.	1.5	42
4	Towards Clinical Translation of LED-Based Photoacoustic Imaging: A Review. <i>Sensors</i> , 2020, 20, 2484.	2.1	41
5	Design and evaluation of a laboratory prototype system for 3D photoacoustic full breast tomography. <i>Biomedical Optics Express</i> , 2013, 4, 2555.	1.5	36
6	Photoacoustic imaging of the human placental vasculature. <i>Journal of Biophotonics</i> , 2020, 13, e201900167.	1.1	36
7	Portable and Affordable Light Source-Based Photoacoustic Tomography. <i>Sensors</i> , 2020, 20, 6173.	2.1	33
8	Oxygen Saturation Imaging Using LED-Based Photoacoustic System. <i>Sensors</i> , 2021, 21, 283.	2.1	32
9	Tomographic imaging with an ultrasound and LED-based photoacoustic system. <i>Biomedical Optics Express</i> , 2020, 11, 2152.	1.5	29
10	Photoacoustic-guided focused ultrasound for accurate visualization of brachytherapy seeds with the photoacoustic needle. <i>Journal of Biomedical Optics</i> , 2016, 21, 120501.	1.4	25
11	Photoacoustic Imaging of Human Vasculature Using LED versus Laser Illumination: A Comparison Study on Tissue Phantoms and In Vivo Humans. <i>Sensors</i> , 2021, 21, 424.	2.1	24
12	In Vivo Tumor Vascular Imaging with Light Emitting Diode-Based Photoacoustic Imaging System. <i>Sensors</i> , 2020, 20, 4503.	2.1	20
13	Handheld Probe-Based Dual Mode Ultrasound/Photoacoustics for Biomedical Imaging. <i>Progress in Optical Science and Photonics</i> , 2016, , 209-247.	0.3	17
14	Photoacoustic reflection artifact reduction using photoacoustic-guided focused ultrasound: comparison between plane-wave and element-by-element synthetic backpropagation approach. <i>Biomedical Optics Express</i> , 2017, 8, 2245.	1.5	15
15	Optimizing Irradiation Geometry in LED-Based Photoacoustic Imaging with 3D Printed Flexible and Modular Light Delivery System. <i>Sensors</i> , 2020, 20, 3789.	2.1	10
16	Technical validation studies of a dual-wavelength LED-based photoacoustic and ultrasound imaging system. <i>Photoacoustics</i> , 2021, 22, 100267.	4.4	9
17	Deep learning-enhanced LED-based photoacoustic imaging. , 2020, , .		7
18	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

#	ARTICLE	IF	CITATIONS
19	Human placental vasculature imaging using an LED-based photoacoustic/ultrasound imaging system. , 2018, , .		5
20	Imaging of human peripheral blood vessels during cuff occlusion with a compact LED-based photoacoustic and ultrasound system. , 2019, , .		4
21	Biomedical Photoacoustic Imaging and Sensing Using Affordable Resources. Sensors, 2021, 21, 2572.	2.1	3
22	Real-time in vivo imaging of human lymphatic system using an LED-based photoacoustic/ultrasound imaging system. , 2018, , .		3
23	Preclinical cancer imaging using a multispectral LED-based photoacoustic and ultrasound imaging system. , 2021, , .		2
24	Generative adversarial network-based photoacoustic image reconstruction from bandlimited and limited-view data. , 2021, , .		2
25	Identification and removal of reflection artifacts in minimally invasive photoacoustic imaging for accurate visualization of brachytherapy seeds. Proceedings of SPIE, 2017, , .	0.8	2
26	In vivo demonstration of real-time oxygen saturation imaging using a portable and affordable LED-based multispectral photoacoustic and ultrasound imaging system. , 2019, , .		2
27	Real-time improvement of LED-based photoacoustic image quality using intermittent pulse echo acquisitions. , 2020, , .		2
28	LED-based photoacoustic imaging for early detection of joint inflammation in rodents: towards achieving 3Rs in rheumatoid arthritis research. , 2020, , .		2
29	Functional, molecular and structural imaging using LED-based photoacoustic and ultrasound imaging system.. , 2020, , .		2
30	Improvement of LED-based photoacoustic imaging using sign coherence factor based on lag-delay-multiply-and-sum beamformer. , 2022, , .		2
31	Design considerations for ultrasound detectors in photoacoustic breast imaging. , 2013, , .		1
32	Flow imaging using an integrated photoacoustic/ultrasound probe. , 2015, , .		1
33	Breast imaging using an LED-based photoacoustic and ultrasound imaging system: a proof-of-concept study. , 2021, , .		1
34	Image quality enhancement for LED-based photoacoustic imaging. , 2021, , .		1
35	Optimizing acoustic detection for deep-tissue LED-based photoacoustic imaging. , 2021, , .		1
36	Light Emitting Diodes Based Photoacoustic and Ultrasound Tomography: Imaging Aspects and Applications. Progress in Optical Science and Photonics, 2020, , 245-266.	0.3	1

#	ARTICLE	IF	CITATIONS
37	High-speed photoacoustic imaging using an LED-based photoacoustic imaging system. , 2018, , .		1
38	International Photoacoustic Standardisation Consortium (IPASC): overview (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (1
39	Characterization and technical validation of a multi-wavelength LED-based photoacoustic/ultrasound imaging system (Conference Presentation). , 2018, , .		1
40	Enhancing photoacoustic visualization of medical devices with elastomeric nanocomposite coatings. , 2019, , .		1
41	Low-cost photoacoustic computed tomography system using light-emitting-diodes. , 2020, , .		1
42	Photoacoustic imaging capabilities of light emitting diodes (LED) and laser sources: a comparison study. , 2020, , .		1
43	PhotoAcoustic-guided Focused UltraSound imaging (PAFUSion) for reducing reflection artifacts in photoacoustic imaging. Proceedings of SPIE, 2015, , .	0.8	0
44	Reflection-artifact-free photoacoustic imaging using PAFUSion (photoacoustic-guided focused) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (0
45	LED-Based Photoacoustic and Ultrasound Imaging System for Guiding Minimally Invasive Procedures with Peripheral Tissue Targets. , 2018, , .		0
46	Point-of-care functional and molecular imaging using LED-based photoacoustics. , 2019, , .		0
47	Correction to: Overview of Coronavirus Disease and Imaging-Based Diagnostic Techniques. Medical Virology, 2021, , C1-C1.	2.1	0
48	Modular and flexible 3D printed holder for deep tissue imaging with LED array based photoacoustic imaging. , 2021, , .		0
49	In vivo demonstration of reflection artifact reduction in LED-based photoacoustic imaging using deep learning. , 2021, , .		0
50	PhotoAcoustic-guided Focused UltraSound imaging (PAFUSion) for reducing reflection artifacts in photoacoustic imaging. , 2015, , .		0
51	Multispectral photoacoustic characterization of ICG and porcine blood using an LED-based photoacoustic imaging system. , 2018, , .		0
52	Real-time guidance of minimally-invasive peripheral vascular access procedures using a point of care LED-based photoacoustic and ultrasound imaging system. , 2019, , .		0
53	3D printed kidney phantoms for an LED-based photoacoustic and ultrasound imaging system. , 2019, , .		0
54	Imaging tumor vasculature using LED based photoacoustic system. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
55	Overview of Coronavirus Disease and Imaging-Based Diagnostic Techniques. Medical Virology, 2020, , 73-107.	2.1	0
56	Tomographic imaging with an LED-based photoacoustic-ultrasound system. , 2020, , .		0
57	Light emitting diode based photoacoustic/ultrasound imaging reveals fast dynamic contrast in liver and changes in blood oxygenation (Conference Presentation). , 2020, , .		0
58	Guidance of lymphaticovenous anastomosis using LED-based photoacoustic lymphangiography: a human volunteer study. , 2022, , .		0
59	Three-dimensional handheld LED-based photoacoustic/ultrasound imaging: A potential point-of-care tool for diagnosing peripheral arterial disease. , 2022, , .		0