

Renzhe Bi

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,332
citations

471509

17
h-index

454955

30
g-index

42
all docs

42
docs citations

42
times ranked

1540
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of clinical photoacoustic imaging: Current and future trends. <i>Photoacoustics</i> , 2019, 16, 100144.	7.8	494
2	Metasurfaces for biomedical applications: imaging and sensing from a nanophotonics perspective. <i>Nanophotonics</i> , 2020, 10, 259-293.	6.0	118
3	Deep tissue flowmetry based on diffuse speckle contrast analysis. <i>Optics Letters</i> , 2013, 38, 1401.	3.3	98
4	Noninvasive real-time characterization of non-melanoma skin cancers with handheld optoacoustic probes. <i>Photoacoustics</i> , 2017, 7, 20-26.	7.8	80
5	Diffuse correlation spectroscopy with a fast Fourier transform-based software autocorrelator. <i>Journal of Biomedical Optics</i> , 2012, 17, 0970041.	2.6	56
6	Multi-channel deep tissue flowmetry based on temporal diffuse speckle contrast analysis. <i>Optics Express</i> , 2013, 21, 22854.	3.4	47
7	A triple-network organization for the mouse brain. <i>Molecular Psychiatry</i> , 2022, 27, 865-872.	7.9	44
8	Optical methods for blood perfusion measurement— theoretical comparison among four different modalities. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 860.	1.5	41
9	In vivo label-free functional photoacoustic monitoring of ischemic reperfusion. <i>Journal of Biophotonics</i> , 2019, 12, e201800454.	2.3	31
10	Photoacoustic microscopy for evaluating combretastatin A4 phosphate induced vascular disruption in orthotopic glioma. <i>Journal of Biophotonics</i> , 2018, 11, e201700327.	2.3	30
11	Optoacoustic mesoscopy analysis and quantitative estimation of specific imaging metrics in Fitzpatrick skin phototypes II to V. <i>Journal of Biophotonics</i> , 2019, 12, e201800442.	2.3	30
12	Optical resolution photoacoustic microscopy based on multimode fibers. <i>Biomedical Optics Express</i> , 2018, 9, 1190.	2.9	29
13	High-speed simultaneous multiscale photoacoustic microscopy. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	29
14	Seeing Elastin: A Near-Infrared Zwitterionic Fluorescent Probe for In-Vivo Elastin Imaging. <i>CheM</i> , 2018, 4, 1128-1138.	11.7	28
15	Biophotonic technologies for assessment of breast tumor surgical margins—A review. <i>Journal of Biophotonics</i> , 2021, 14, e202000280.	2.3	28
16	Fast pulsatile blood flow measurement in deep tissue through a multimode detection fiber. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	25
17	Hemodynamic monitoring of Chlorin e6-mediated photodynamic therapy using diffuse optical measurements. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2014, 140, 163-172.	3.8	17
18	Raster-scanning optoacoustic mesoscopy imaging as an objective disease severity tool in atopic dermatitis patients. <i>Journal of the American Academy of Dermatology</i> , 2021, 84, 1121-1123.	1.2	15

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19	Investigation of morphological, vascular and biochemical changes in the skin of an atopic dermatitis (AD) patient in response to dupilumab using raster scanning optoacoustic mesoscopy (RSOM) and handheld confocal Raman spectroscopy (CRS). Journal of Dermatological Science, 2019, 95, 123-125.	1.9	14
20	Quantitative in vivo detection of adipose tissue browning using diffuse reflectance spectroscopy in near-infrared II window. Journal of Biophotonics, 2018, 11, e201800135.	2.3	11
21	Acoustic resolution photoacoustic microscopy based on microelectromechanical systems scanner. Journal of Biophotonics, 2020, 13, e201960127.	2.3	11
22	Handheld confocal Raman spectroscopy (CRS) for objective assessment of skin barrier function and stratification of severity in atopic dermatitis (AD) patients. Journal of Dermatological Science, 2020, 98, 20-25.	1.9	10
23	A Portable Ultrawideband Confocal Raman Spectroscopy System with a Handheld Probe for Skin Studies. ACS Sensors, 2021, 6, 2960-2966.	7.8	10
24	Generating Localized Plasmonic Fields on an Integrated Photonic Platform using Tapered Couplers for Biosensing Applications. Scientific Reports, 2017, 7, 15587.	3.3	9
25	The lateral entorhinal cortex is a hub for local and global dysfunction in early Alzheimer's disease states. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1616-1631.	4.3	6
26	Clinical noninvasive imaging and spectroscopic tools for dermatological applications: Review of recent progress. Translational Biophotonics, 2020, 2, e202000010.	2.7	5
27	Fast and Affordable Diffuse Optical Deep-Tissue Flowmetry. Optics and Photonics News, 2013, 24, 32.	0.5	4
28	Machine Learning Assisted Handheld Confocal Raman Micro-Spectroscopy for Identification of Clinically Relevant Atopic Eczema Biomarkers. Sensors, 2022, 22, 4674.	3.8	4
29	Optical-Resolution Photoacoustic Microscopy of Brain Vascular Imaging in Small Animal Tumor Model Using Nanosecond Solid-State Laser. , 2019, , 159-187.		3
30	Coherent backscattering cone shape depends on the beam size. Applied Optics, 2012, 51, 6301.	1.8	2
31	Deep Tissue Hemodynamic Monitoring Using Diffuse Optical Probes. Progress in Optical Science and Photonics, 2016, , 135-159.	0.5	2
32	A fast MEMS scanning photoacoustic microscopy system and its application in glioma study. , 2018, ,		1
33	Hybrid Optical Coherence Tomography and Low-coherence Enhanced Backscattering Imager. , 2012, ,		0
34	An FFT-based Software Autocorrelator in Diffuse Correlation Spectroscopy System. , 2012, ,		0
35	Frontal Activation Assessment Using Near-Infrared Spectroscopy and Electroencephalography. , 2012, ,		0
36	A commercialized photoacoustic microscopy system with switchable optical and acoustic resolutions. , 2018, ,		0

#	ARTICLE	IF	CITATIONS
37	A commercialized Microelectromechanical Systems (MEMS)-based rapid scanning photoacoustic microscopy system with switchable optical and acoustic resolutions. , 2019, , .		0
38	Functional vascular imaging by Photoacoustic Microscopy (PAM) and its biomedical application. , 2019, , .		0
39	Vascular and functional imaging by a fast mechanical scanning dual-wavelength photoacoustic microscopy (PAM). , 2020, , .		0
40	A portable fiber based dual-wavelength confocal Raman spectroscopy system. , 2022, , .		0