

Wiendelt Steenbergen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8833691/publications.pdf>

Version: 2024-02-01

53
papers

2,357
citations

304368

22
h-index

205818

48
g-index

56
all docs

56
docs citations

56
times ranked

2509
citing authors

#	ARTICLE	IF	CITATIONS
1	Perfusion measured by laser speckle contrast imaging as a predictor for expansion of psoriasis lesions. <i>Skin Research and Technology</i> , 2022, 28, 104-110.	0.8	8
2	Quantitative photoacoustic imaging of simulated carotid plaques in a neck phantom. , 2022, , .		0
3	Assessing the Microcirculation of the Foot with Laser Speckle Contrast Imaging During Endovascular and Hybrid Revascularisation Procedures in Patients with Chronic Limb Threatening Ischaemia. <i>European Journal of Vascular and Endovascular Surgery</i> , 2022, 63, 898-899.	0.8	1
4	Pendant breast immobilization and positioning in photoacoustic tomographic imaging. <i>Photoacoustics</i> , 2021, 21, 100238.	4.4	8
5	The Association between Foot and Ulcer Microcirculation Measured with Laser Speckle Contrast Imaging and Healing of Diabetic Foot Ulcers. <i>Journal of Clinical Medicine</i> , 2021, 10, 3844.	1.0	10
6	Handheld versus mounted laser speckle contrast perfusion imaging demonstrated in psoriasis lesions. <i>Scientific Reports</i> , 2021, 11, 16646.	1.6	9
7	Assessment of flow within developing chicken vasculature and biofabricated vascularized tissues using multimodal imaging techniques. <i>Scientific Reports</i> , 2021, 11, 18251.	1.6	5
8	Oxygen Saturation Imaging Using LED-Based Photoacoustic System. <i>Sensors</i> , 2021, 21, 283.	2.1	32
9	Semi-Automatic Tracking of Laser Speckle Contrast Images of Microcirculation in Diabetic Foot Ulcers. <i>Diagnostics</i> , 2020, 10, 1054.	1.3	2
10	Tomographic Ultrasound and LED-Based Photoacoustic System for Preclinical Imaging. <i>Sensors</i> , 2020, 20, 2793.	2.1	9
11	Three-dimensional view of out-of-plane artifacts in photoacoustic imaging using a laser-integrated linear-transducer-array probe. <i>Photoacoustics</i> , 2020, 19, 100176.	4.4	7
12	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
13	Dependency of the optical scattering properties of human milk on casein content and common sample preparation methods. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	5
14	Tomographic imaging with an ultrasound and LED-based photoacoustic system. <i>Biomedical Optics Express</i> , 2020, 11, 2152.	1.5	29
15	Exploration of movement artefacts in handheld laser speckle contrast perfusion imaging. <i>Biomedical Optics Express</i> , 2020, 11, 2352.	1.5	7
16	Quantification of total haemoglobin concentrations in human whole blood by spectroscopic visible-light optical coherence tomography. <i>Scientific Reports</i> , 2019, 9, 15115.	1.6	19
17	Towards Reaching the Total Blood Volume by <i>in vivo</i> Flow Cytometry and Theranostics. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2019, 95, 1223-1225.	1.1	5
18	Twente Photoacoustic Mammoscope 2: system overview and three-dimensional vascular network images in healthy breasts. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	38

#	ARTICLE	IF	CITATIONS
19	Clinical applications of laser speckle contrast imaging: a review. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	179
20	Reducing artifacts in photoacoustic imaging by using multi-wavelength excitation and transducer displacement. <i>Biomedical Optics Express</i> , 2019, 10, 3124.	1.5	12
21	Optical properties of human milk. <i>Biomedical Optics Express</i> , 2019, 10, 4059.	1.5	7
22	Imaging blood flow inside highly scattering media using ultrasound modulated optical tomography. <i>Journal of Biophotonics</i> , 2018, 11, e201700013.	1.1	15
23	Recent Development of Technology and Application of Photoacoustic Molecular Imaging Toward Clinical Translation. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1202-1207.	2.8	25
24	Processing methods for photoacoustic Doppler flowmetry with a clinical ultrasound scanner. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	6
25	Spatially confined quantification of bilirubin concentrations by spectroscopic visible-light optical coherence tomography. <i>Biomedical Optics Express</i> , 2018, 9, 3581.	1.5	20
26	Reflection artifact identification in photoacoustic imaging using multi-wavelength excitation. <i>Biomedical Optics Express</i> , 2018, 9, 4613.	1.5	24
27	Novel Optical Techniques for Imaging Microcirculation in the Diabetic Foot. <i>Current Pharmaceutical Design</i> , 2018, 24, 1304-1316.	0.9	29
28	Quantitative photoacoustic integrating sphere (QPAIS) platform for absorption coefficient and Gr ^{1/4} neisen parameter measurements: Demonstration with human blood. <i>Photoacoustics</i> , 2017, 6, 9-15.	4.4	1
29	Feasibility of photoacoustic/ultrasound imaging of synovitis in finger joints using a point-of-care system. <i>Photoacoustics</i> , 2017, 8, 8-14.	4.4	66
30	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
31	Identification and removal of reflection artifacts in minimally invasive photoacoustic imaging for accurate visualization of brachytherapy seeds. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
32	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
33	Preclinical detection of liver fibrosis using dual-modality photoacoustic/ultrasound system. <i>Biomedical Optics Express</i> , 2016, 7, 5081.	1.5	32
34	Measuring absorption coefficient of scattering liquids using a tube inside an integrating sphere. <i>Applied Optics</i> , 2016, 55, 3030.	2.1	15
35	Opening the "White Box" in Tissue Engineering: Visualization of Cell Aggregates in Optically Scattering Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 534-542.	1.1	1
36	Quantitative blood oxygen saturation imaging using combined photoacoustics and acousto-optics. <i>Optics Letters</i> , 2016, 41, 1720.	1.7	39

#	ARTICLE	IF	CITATIONS
37	The state of the art in breast imaging using the Twente Photoacoustic Mammoscope: results from 31 measurements on malignancies. <i>European Radiology</i> , 2016, 26, 3874-3887.	2.3	94
38	Photoacoustic-guided focused ultrasound (PAFUSion) for identifying reflection artifacts in photoacoustic imaging. <i>Photoacoustics</i> , 2015, 3, 123-131.	4.4	61
39	Cells make themselves heard. <i>Nature Photonics</i> , 2015, 9, 216-218.	15.6	11
40	Photoacoustic measurement of the Gr ^{1/4} neisen parameter using an integrating sphere. <i>Review of Scientific Instruments</i> , 2014, 85, 074904.	0.6	11
41	Initial results of finger imaging using photoacoustic computed tomography. <i>Journal of Biomedical Optics</i> , 2014, 19, 060501.	1.4	65
42	Ultrafast vapourization dynamics of laser-activated polymeric microcapsules. <i>Nature Communications</i> , 2014, 5, 3671.	5.8	31
43	A new acoustic lens material for large area detectors in photoacoustic breast tomography. <i>Photoacoustics</i> , 2013, 1, 9-18.	4.4	34
44	Appearance of breast cysts in planar geometry photoacoustic mammography using 1064-nm excitation. <i>Journal of Biomedical Optics</i> , 2013, 18, 126009.	1.4	22
45	Laser speckle contrast imaging: theoretical and practical limitations. <i>Journal of Biomedical Optics</i> , 2013, 18, 066018.	1.4	391
46	Photoacoustic Imaging of the Breast Using the Twente Photoacoustic Mammoscope: Present Status and Future Perspectives. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 730-739.	1.9	94
47	Burn imaging with a whole field laser Doppler perfusion imager based on a CMOS imaging array. <i>Burns</i> , 2010, 36, 389-396.	1.1	11
48	Review of methodological developments in laser Doppler flowmetry. <i>Lasers in Medical Science</i> , 2009, 24, 269-283.	1.0	228
49	Review of laser speckle contrast techniques for visualizing tissue perfusion. <i>Lasers in Medical Science</i> , 2009, 24, 639-651.	1.0	296
50	Time domain algorithm for accelerated determination of the first order moment of photo current fluctuations in high speed laser Doppler perfusion imaging. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 1103-9.	1.6	6
51	Twente Optical Perfusion Camera: system overview and performance for video rate laser Doppler perfusion imaging. <i>Optics Express</i> , 2009, 17, 3211.	1.7	55
52	Laser Doppler perfusion monitoring and imaging: novel approaches. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 421-435.	1.6	153
53	Laser Doppler perfusion imaging with a complimentary metal oxide semiconductor image sensor. <i>Optics Letters</i> , 2002, 27, 300.	1.7	69