

Wiendelt Steenbergen

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,357
citations

304743

22
h-index

206112

48
g-index

56
all docs

56
docs citations

56
times ranked

2509
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser speckle contrast imaging: theoretical and practical limitations. Journal of Biomedical Optics, 2013, 18, 066018.	2.6	391
2	Review of laser speckle contrast techniques for visualizing tissue perfusion. Lasers in Medical Science, 2009, 24, 639-651.	2.1	296
3	Review of methodological developments in laser Doppler flowmetry. Lasers in Medical Science, 2009, 24, 269-283.	2.1	228
4	Clinical applications of laser speckle contrast imaging: a review. Journal of Biomedical Optics, 2019, 24, 1.	2.6	179
5	Laser Doppler perfusion monitoring and imaging: novel approaches. Medical and Biological Engineering and Computing, 2007, 45, 421-435.	2.8	153
6	Photoacoustic Imaging of the Breast Using the Twente Photoacoustic Mammoscope: Present Status and Future Perspectives. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 730-739.	2.9	94
7	The state of the art in breast imaging using the Twente Photoacoustic Mammoscope: results from 31 measurements on malignancies. European Radiology, 2016, 26, 3874-3887.	4.5	94
8	Laser Doppler perfusion imaging with a complimentary metal oxide semiconductor image sensor. Optics Letters, 2002, 27, 300.	3.3	69
9	Feasibility of photoacoustic/ultrasound imaging of synovitis in finger joints using a point-of-care system. Photoacoustics, 2017, 8, 8-14.	7.8	66
10	Initial results of finger imaging using photoacoustic computed tomography. Journal of Biomedical Optics, 2014, 19, 060501.	2.6	65
11	Photoacoustic-guided focused ultrasound (PAFUSion) for identifying reflection artifacts in photoacoustic imaging. Photoacoustics, 2015, 3, 123-131.	7.8	61
12	Twente Optical Perfusion Camera: system overview and performance for video rate laser Doppler perfusion imaging. Optics Express, 2009, 17, 3211.	3.4	55
13	In vivo demonstration of reflection artifact reduction in photoacoustic imaging using synthetic aperture photoacoustic-guided focused ultrasound (PAFUSion). Biomedical Optics Express, 2016, 7, 2955.	2.9	42
14	Quantitative blood oxygen saturation imaging using combined photoacoustics and acousto-optics. Optics Letters, 2016, 41, 1720.	3.3	39
15	Twente Photoacoustic Mammoscope 2: system overview and three-dimensional vascular network images in healthy breasts. Journal of Biomedical Optics, 2019, 24, 1.	2.6	38
16	A new acoustic lens material for large area detectors in photoacoustic breast tomography. Photoacoustics, 2013, 1, 9-18.	7.8	34
17	Preclinical detection of liver fibrosis using dual-modality photoacoustic/ultrasound system. Biomedical Optics Express, 2016, 7, 5081.	2.9	32
18	Oxygen Saturation Imaging Using LED-Based Photoacoustic System. Sensors, 2021, 21, 283.	3.8	32

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19	Ultrafast vapourization dynamics of laser-activated polymeric microcapsules. Nature Communications, 2014, 5, 3671.	12.8	31
20	Tomographic imaging with an ultrasound and LED-based photoacoustic system. Biomedical Optics Express, 2020, 11, 2152.	2.9	29
21	Novel Optical Techniques for Imaging Microcirculation in the Diabetic Foot. Current Pharmaceutical Design, 2018, 24, 1304-1316.	1.9	29
22	Recent Development of Technology and Application of Photoacoustic Molecular Imaging Toward Clinical Translation. Journal of Nuclear Medicine, 2018, 59, 1202-1207.	5.0	25
23	Reflection artifact identification in photoacoustic imaging using multi-wavelength excitation. Biomedical Optics Express, 2018, 9, 4613.	2.9	24
24	Appearance of breast cysts in planar geometry photoacoustic mammography using 1064-nm excitation. Journal of Biomedical Optics, 2013, 18, 126009.	2.6	22
25	Spatially confined quantification of bilirubin concentrations by spectroscopic visible-light optical coherence tomography. Biomedical Optics Express, 2018, 9, 3581.	2.9	20
26	Quantification of total haemoglobin concentrations in human whole blood by spectroscopic visible-light optical coherence tomography. Scientific Reports, 2019, 9, 15115.	3.3	19
27	Measuring absorption coefficient of scattering liquids using a tube inside an integrating sphere. Applied Optics, 2016, 55, 3030.	2.1	15
28	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.	2.9	15
29	Imaging blood flow inside highly scattering media using ultrasound modulated optical tomography. Journal of Biophotonics, 2018, 11, e201700013.	2.3	15
30	Reducing artifacts in photoacoustic imaging by using multi-wavelength excitation and transducer displacement. Biomedical Optics Express, 2019, 10, 3124.	2.9	12
31	Burn imaging with a whole field laser Doppler perfusion imager based on a CMOS imaging array. Burns, 2010, 36, 389-396.	1.9	11
32	Photoacoustic measurement of the Gr ^{1/4} neisen parameter using an integrating sphere. Review of Scientific Instruments, 2014, 85, 074904.	1.3	11
33	Cells make themselves heard. Nature Photonics, 2015, 9, 216-218.	31.4	11
34	The Association between Foot and Ulcer Microcirculation Measured with Laser Speckle Contrast Imaging and Healing of Diabetic Foot Ulcers. Journal of Clinical Medicine, 2021, 10, 3844.	2.4	10
35	Tomographic Ultrasound and LED-Based Photoacoustic System for Preclinical Imaging. Sensors, 2020, 20, 2793.	3.8	9
36	Handheld versus mounted laser speckle contrast perfusion imaging demonstrated in psoriasis lesions. Scientific Reports, 2021, 11, 16646.	3.3	9

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37	Pendant breast immobilization and positioning in photoacoustic tomographic imaging. Photoacoustics, 2021, 21, 100238.	7.8	8
38	Perfusion measured by laser speckle contrast imaging as a predictor for expansion of psoriasis lesions. Skin Research and Technology, 2022, 28, 104-110.	1.6	8
39	Three-dimensional view of out-of-plane artifacts in photoacoustic imaging using a laser-integrated linear-transducer-array probe. Photoacoustics, 2020, 19, 100176.	7.8	7
40	Optical properties of human milk. Biomedical Optics Express, 2019, 10, 4059.	2.9	7
41	Exploration of movement artefacts in handheld laser speckle contrast perfusion imaging. Biomedical Optics Express, 2020, 11, 2352.	2.9	7
42	Time domain algorithm for accelerated determination of the first order moment of photo current fluctuations in high speed laser Doppler perfusion imaging. Medical and Biological Engineering and Computing, 2009, 47, 1103-9.	2.8	6
43	Processing methods for photoacoustic Doppler flowmetry with a clinical ultrasound scanner. Journal of Biomedical Optics, 2018, 23, 1.	2.6	6
44	Towards Reaching the Total Blood Volume by <i>in vivo</i> Flow Cytometry and Theranostics. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 1223-1225.	1.5	5
45	Assessment of flow within developing chicken vasculature and biofabricated vascularized tissues using multimodal imaging techniques. Scientific Reports, 2021, 11, 18251.	3.3	5
46	Dependency of the optical scattering properties of human milk on casein content and common sample preparation methods. Journal of Biomedical Optics, 2020, 25, 1.	2.6	5
47	Semi-Automatic Tracking of Laser Speckle Contrast Images of Microcirculation in Diabetic Foot Ulcers. Diagnostics, 2020, 10, 1054.	2.6	2
48	Identification and removal of reflection artifacts in minimally invasive photoacoustic imaging for accurate visualization of brachytherapy seeds. Proceedings of SPIE, 2017, , .	0.8	2
49	Opening the ‘White Box’ in Tissue Engineering: Visualization of Cell Aggregates in Optically Scattering Scaffolds. Tissue Engineering - Part C: Methods, 2016, 22, 534-542.	2.1	1
50	Quantitative photoacoustic integrating sphere (QPAIS) platform for absorption coefficient and Gr ^{1/4} neisen parameter measurements: Demonstration with human blood. Photoacoustics, 2017, 6, 9-15.	7.8	1
51	Light Emitting Diodes Based Photoacoustic and Ultrasound Tomography: Imaging Aspects and Applications. Progress in Optical Science and Photonics, 2020, , 245-266.	0.5	1
52	Assessing the Microcirculation of the Foot with Laser Speckle Contrast Imaging During Endovascular and Hybrid Revascularisation Procedures in Patients with Chronic Limb Threatening Ischaemia. European Journal of Vascular and Endovascular Surgery, 2022, 63, 898-899.	1.5	1
53	Quantitative photoacoustic imaging of simulated carotid plaques in a neck phantom. , 2022, , .		0