

Dirk J Faber

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4932122/publications.pdf>

Version: 2024-02-01

124
papers

4,108
citations

126907

33
h-index

123424

61
g-index

128
all docs

128
docs citations

128
times ranked

3616
citing authors

#	ARTICLE	IF	CITATIONS
1	A literature review and novel theoretical approach on the optical properties of whole blood. <i>Lasers in Medical Science</i> , 2014, 29, 453-479.	2.1	310
2	Recent developments in optical coherence tomography for imaging the retina. <i>Progress in Retinal and Eye Research</i> , 2007, 26, 57-77.	15.5	304
3	Quantitative measurement of attenuation coefficients of weakly scattering media using optical coherence tomography. <i>Optics Express</i> , 2004, 12, 4353.	3.4	271
4	Oxygen Saturation-Dependent Absorption and Scattering of Blood. <i>Physical Review Letters</i> , 2004, 93, 028102.	7.8	222
5	Light absorption of (oxy-)hemoglobin assessed by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2003, 28, 1436.	3.3	150
6	Localized measurement of optical attenuation coefficients of atherosclerotic plaque constituents by quantitative optical coherence tomography. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1369-1376.	8.9	141
7	Measurement of the axial point spread function in scattering media using single-mode fiber-based optical coherence tomography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2003, 9, 227-233.	2.9	129
8	Toward assessment of blood oxygen saturation by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2005, 30, 1015.	3.3	129
9	A New Generation of Optical Diagnostics for Bladder Cancer: Technology, Diagnostic Accuracy, and Future Applications. <i>European Urology</i> , 2009, 56, 287-297.	1.9	127
10	Optical phantoms of varying geometry based on thin building blocks with controlled optical properties. <i>Journal of Biomedical Optics</i> , 2010, 15, 025001.	2.6	115
11	Influence of cataract on optical coherence tomography image quality and retinal thickness. <i>British Journal of Ophthalmology</i> , 2006, 90, 1259-1262.	3.9	104
12	Quantitative comparison of the OCT imaging depth at 1300 nm and 1600 nm. <i>Biomedical Optics Express</i> , 2010, 1, 176.	2.9	81
13	Volumetric In-Vivo Visualization of Upper Urinary Tract Tumors Using Optical Coherence Tomography: A Pilot Study. <i>Journal of Urology</i> , 2013, 190, 2236-2242.	0.4	66
14	Quantitative measurement of attenuation coefficients of bladder biopsies using optical coherence tomography for grading urothelial carcinoma of the bladder. <i>Journal of Biomedical Optics</i> , 2010, 15, 066013.	2.6	64
15	Determination of the scattering anisotropy with optical coherence tomography. <i>Optics Express</i> , 2011, 19, 6131.	3.4	64
16	Heartbeat-Induced Axial Motion Artifacts in Optical Coherence Tomography Measurements of the Retina. , 2011, 52, 3908.		63
17	Differentiation between normal renal tissue and renal tumours using functional optical coherence tomography: a phase I <i>in vivo</i> human study. <i>BJU International</i> , 2012, 110, E415-20.	2.5	61
18	Apoptosis- and necrosis-induced changes in light attenuation measured by optical coherence tomography. <i>Lasers in Medical Science</i> , 2010, 25, 259-267.	2.1	58

#	ARTICLE	IF	CITATIONS
19	Quantitative blood flow velocity imaging using laser speckle flowmetry. <i>Scientific Reports</i> , 2016, 6, 25258.	3.3	58
20	Validation of quantitative attenuation and backscattering coefficient measurements by optical coherence tomography in the concentration-dependent and multiple scattering regime. <i>Journal of Biomedical Optics</i> , 2015, 20, 121314.	2.6	55
21	Multiple and dependent scattering effects in Doppler optical coherence tomography. <i>Optics Express</i> , 2010, 18, 3883.	3.4	54
22	Quantitative optical coherence tomography of arterial wall components. <i>Lasers in Medical Science</i> , 2005, 20, 45-51.	2.1	52
23	Are quantitative attenuation measurements of blood by optical coherence tomography feasible?. <i>Optics Letters</i> , 2009, 34, 1435.	3.3	52
24	Detection of buried Barrett's glands after radiofrequency ablation with volumetric laser endomicroscopy. <i>Gastrointestinal Endoscopy</i> , 2016, 83, 80-88.	1.0	52
25	Integrated system for combined Raman spectroscopy and spectral domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2011, 16, 011007.	2.6	51
26	Dependent and multiple scattering in transmission and backscattering optical coherence tomography. <i>Optics Express</i> , 2013, 21, 29145.	3.4	51
27	Parametric imaging of attenuation by optical coherence tomography: review of models, methods, and clinical translation. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	51
28	Optical Diagnostics for Upper Urinary Tract Urothelial Cancer: Technology, Thresholds, and Clinical Applications. <i>Journal of Endourology</i> , 2015, 29, 113-123.	2.1	50
29	Advanced Diagnostics in Renal Mass Using Optical Coherence Tomography: A Preliminary Report. <i>Journal of Endourology</i> , 2011, 25, 311-315.	2.1	43
30	Darkfield orthogonal polarized spectral imaging for studying endovascular laser-tissue interactions in vivo-a preliminary study. <i>Optics Express</i> , 2005, 13, 702.	3.4	41
31	Optical biopsy of epithelial cancers by optical coherence tomography (OCT). <i>Lasers in Medical Science</i> , 2013, 29, 1297-305.	2.1	40
32	Abnormal arterial flows by a distributed model of the fetal circulation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 291, R1222-R1233.	1.8	39
33	Macular pigment optical density measurements: evaluation of a device using heterochromatic flicker photometry. <i>Eye</i> , 2011, 25, 105-112.	2.1	36
34	Optical coherence tomography in vulvar intraepithelial neoplasia. <i>Journal of Biomedical Optics</i> , 2012, 17, 116022.	2.6	35
35	OCT Amplitude and Speckle Statistics of Discrete Random Media. <i>Scientific Reports</i> , 2017, 7, 14873.	3.3	34
36	Comparative optical coherence tomography imaging of human esophagus: How accurate is localization of the muscularis mucosae?. <i>Gastrointestinal Endoscopy</i> , 2002, 56, 852-857.	1.0	34

#	ARTICLE	IF	CITATIONS
37	Comparative optical coherence tomography imaging of human esophagus: How accurate is localization of the muscularis mucosae?. <i>Gastrointestinal Endoscopy</i> , 2002, 56, 852-857.	1.0	33
38	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2013, 4, 2570.	2.9	33
39	Quantitative measurements of absorption spectra in scattering media by low-coherence spectroscopy. <i>Optics Letters</i> , 2009, 34, 3746.	3.3	32
40	Measurements of wavelength dependent scattering and backscattering coefficients by low-coherence spectroscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 030503.	2.6	32
41	Temperature-dependent optical properties of individual vascular wall components measured by optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2006, 11, 041120.	2.6	31
42	Quantitative laser speckle flowmetry of the in vivo microcirculation using sidestream dark field microscopy. <i>Biomedical Optics Express</i> , 2013, 4, 2347.	2.9	30
43	Prostate cancer diagnosis: the feasibility of needle-based optical coherence tomography. <i>Journal of Medical Imaging</i> , 2015, 2, 037501.	1.5	28
44	Doppler optical coherence tomography to monitor the effect of photodynamic therapy on tissue morphology and perfusion. <i>Journal of Biomedical Optics</i> , 2006, 11, 044011.	2.6	24
45	Prostate cancer diagnosis by optical coherence tomography: First results from a needle based optical platform for tissue sampling. <i>Journal of Biophotonics</i> , 2016, 9, 490-498.	2.3	24
46	Simple and robust calibration procedure for k-linearization and dispersion compensation in optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	23
47	Volumetric laser endomicroscopy in Barrett's esophagus: a feasibility study on histological correlation. <i>Ecological Management and Restoration</i> , 2016, 29, 505-512.	0.4	22
48	Optical coherence tomography of the Ex-PRESS miniature glaucoma implant. <i>Lasers in Medical Science</i> , 2005, 20, 41-44.	2.1	21
49	In vivo low-coherence spectroscopic measurements of local hemoglobin absorption spectra in human skin. <i>Journal of Biomedical Optics</i> , 2011, 16, 100504.	2.6	21
50	Comparison of optical coherence tomography and histopathology in quantitative assessment of goat talus articular cartilage. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 86, 257-263.	3.3	21
51	Refractive index measurement using single fiber reflectance spectroscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201900019.	2.3	21
52	Comparison of retinal nerve fiber layer thickness measurements by spectral-domain optical coherence tomography systems using a phantom eye model. <i>Journal of Biophotonics</i> , 2013, 6, 314-320.	2.3	19
53	Optical density filters modeling media opacities cause decreased SD-OCT retinal layer thickness measurements with inter- and intra-individual variation. <i>Acta Ophthalmologica</i> , 2015, 93, 355-361.	1.1	18
54	In-situ imaging of articular cartilage of the first carpometacarpal joint using co-registered optical coherence tomography and computed tomography. <i>Journal of Biomedical Optics</i> , 2012, 17, 060501.	2.6	17

#	ARTICLE	IF	CITATIONS
55	Modeling subdiffusive light scattering by incorporating the tissue phase function and detector numerical aperture. <i>Journal of Biomedical Optics</i> , 2017, 22, 050501.	2.6	17
56	Needle-based optical coherence tomography for the detection of prostate cancer: a visual and quantitative analysis in 20 patients. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	17
57	Functional optical coherence tomography of pigmented lesions. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2015, 29, 738-744.	2.4	15
58	Percutaneous Needle Based Optical Coherence Tomography for the Differentiation of Renal Masses: a Pilot Cohort. <i>Journal of Urology</i> , 2016, 195, 1578-1585.	0.4	15
59	Evaluation of multi-exponential curve fitting analysis of oxygen-quenched phosphorescence decay traces for recovering microvascular oxygen tension histograms. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 1233-1242.	2.8	14
60	Spectral domain detection in low-coherence spectroscopy. <i>Biomedical Optics Express</i> , 2012, 3, 2263.	2.9	14
61	The Value of Optical Coherence Tomography in Determining Surgical Margins in Squamous Cell Carcinoma of the Vulva: A Single-Center Prospective Study. <i>International Journal of Gynecological Cancer</i> , 2015, 25, 112-118.	2.5	14
62	Customized Tool for the Validation of Optical Coherence Tomography in Differentiation of Prostate Cancer. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 57-65.	1.9	13
63	Grading upper tract urothelial carcinoma with the attenuation coefficient of in vivo optical coherence tomography. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 399-406.	2.1	13
64	Single fiber reflectance spectroscopy calibration. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	13
65	Applicability of quantitative optical imaging techniques for intraoperative perfusion diagnostics: a comparison of laser speckle contrast imaging, sidestream dark-field microscopy, and optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	12
66	Noise and bias in optical coherence tomography intensity signal decorrelation. <i>OSA Continuum</i> , 2020, 3, 709.	1.8	12
67	Doppler calibration method for Spectral Domain OCT spectrometers. <i>Journal of Biophotonics</i> , 2009, 2, 407-415.	2.3	11
68	Decreasing the Size of a Spectral Domain Optical Coherence Tomography System With Cascaded Arrayed Waveguide Gratings in a Photonic Integrated Circuit. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-9.	2.9	11
69	In Vivo, Percutaneous, Needle Based, Optical Coherence Tomography of Renal Masses. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	10
70	Visibility of fiducial markers used for image-guided radiation therapy on optical coherence tomography for registration with CT: An esophageal phantom study. <i>Medical Physics</i> , 2017, 44, 6570-6582.	3.0	10
71	One-to-one registration of en face optical coherence tomography attenuation coefficients with histology of a prostatectomy specimen. <i>Journal of Biophotonics</i> , 2019, 12, e201800274.	2.3	10
72	Quantitative attenuation analysis for identification of early Barrett's neoplasia in volumetric laser endomicroscopy. <i>Journal of Biomedical Optics</i> , 2017, 22, 086001.	2.6	10

#	ARTICLE	IF	CITATIONS
73	Subdiffuse scattering model for single fiber reflectance spectroscopy. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	2.6	10
74	Analytical model for diffuse reflectance in single fiber reflectance spectroscopy. <i>Optics Letters</i> , 2020, 45, 2078.	3.3	10
75	Multidiameter single-fiber reflectance spectroscopy of heavily pigmented skin: modeling the inhomogeneous distribution of melanin. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	2.6	9
76	Wavelength swept Ti:sapphire laser. <i>Optics Communications</i> , 2008, 281, 4975-4978.	2.1	8
77	Assesment of apoptosis induced changes in scattering using optical coherence tomography. <i>Journal of Biophotonics</i> , 2016, 9, 913-923.	2.3	8
78	Subdiffuse scattering and absorption model for single fiber reflectance spectroscopy. <i>Biomedical Optics Express</i> , 2020, 11, 6620.	2.9	8
79	Learning curve and interobserver variance in quantification of the optical coherence tomography attenuation coefficient. <i>Journal of Biomedical Optics</i> , 2015, 20, 121313.	2.6	6
80	Bayesian analysis of depth resolved OCT attenuation coefficients. <i>Scientific Reports</i> , 2021, 11, 2263.	3.3	6
81	Experimental validation of a recently developed model for single-fiber reflectance spectroscopy. <i>Journal of Biomedical Optics</i> , 2021, 26, .	2.6	6
82	Optical coherence tomography accurately identifies patients with penile (pre) malignant lesions: A single center prospective study. <i>Urology Annals</i> , 2015, 7, 459.	0.6	6
83	NAOMI: nanoparticle assisted optical molecular imaging. , 2006, , .		5
84	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography: reply to comment. <i>Biomedical Optics Express</i> , 2014, 5, 3034.	2.9	5
85	Effect of probe pressure on skin tissue optical properties measurement using multi-diameter single fiber reflectance spectroscopy. <i>JPhys Photonics</i> , 2020, 2, 034008.	4.6	5
86	Detection of apoptosis by optical coherence tomography (OCT). , 2001, 4251, 165.		4
87	Curve fitting for quantitative measurement of attenuation coefficients from OCT images. , 2005, , .		4
88	A LED-based phosphorimeter for measurement of microcirculatory oxygen pressure. <i>Journal of Applied Physiology</i> , 2017, 122, 307-316.	2.5	4
89	Toward improved endoscopic surveillance with multidiameter single fiber reflectance spectroscopy in patients with Barrett's esophagus. <i>Journal of Biophotonics</i> , 2021, 14, e202000351.	2.3	4
90	Oxygen saturation dependent absorption and scattering of whole blood. , 2004, , .		3

#	ARTICLE	IF	CITATIONS
91	Colour Oscillations in Arterioarterial Anastomoses Reflect Natural Differences in Donor and Recipient Oxygenation and Hematocrit. Placenta, 2006, 27, 1055-1059.	1.5	3
92	37 Quantitative Analysis of Volumetric Laser Endomicroscopy Images With Histological Correlation of Ex-Vivo Endoscopic Resection Specimens of Barrett's Esophagus With and Without Early Neoplasia. Gastroenterology, 2014, 146, S-10.	1.3	3
93	Noninvasive fluence rate mapping in living tissues using magnetic resonance thermometry. Journal of Biomedical Optics, 2017, 22, 036001.	2.6	3
94	Ex-vivo study in nephroureterectomy specimens defining the role of 3-D upper urinary tract visualization using optical coherence tomography and endoluminal ultrasound. Journal of Medical Imaging, 2018, 5, 1.	1.5	3
95	Spectral domain, common path OCT in a handheld PIC based system. , 2018, , .		2
96	3D co-registration algorithm for catheter-based optical coherence tomography. OSA Continuum, 2020, 3, 2707.	1.8	2
97	<title>Changes in optical properties of cells and tissue after induction of apoptosis</title>. , 2001, , .		1
98	Blood oxygenation measurements with optical coherence tomography. , 2001, , .		1
99	Oxygen saturation dependent index of refraction of hemoglobin solutions assessed by OCT. , 2003, , .		1
100	Discrimination of atherosclerotic plaque constituents based on local measurements of optical attenuation coefficients by OCT. , 2005, 5686, 426.		1
101	<title>Hematocrit-dependence of the scattering coefficient of blood determined by optical coherence tomography</title>. , 2006, , .		1
102	NAOMI: nanoparticle-assisted optical molecular imaging. , 2007, , .		1
103	Blood oxygen saturation of frozen tissue determined by hyper spectral imaging. Proceedings of SPIE, 2008, , .	0.8	1
104	Diffuse reflectance relations based on diffusion dipole theory for large absorption and reduced scattering. Journal of Biomedical Optics, 2013, 18, 087007.	2.6	1
105	Feedforward operation of a lens setup for large defocus and astigmatism correction. Proceedings of SPIE, 2016, , .	0.8	1
106	Quantitative Assessment of Optical Properties in Healthy Cartilage and Repair Tissue by Optical Coherence Tomography and Histology. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 203-209.	2.9	1
107	Concentration Dependent Scattering Coefficients of Intralipid Measured with OCT. , 2010, , .		1
108	Pathlength distribution of (sub)diffusively reflected light. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
109	<title>Oxygenation measurements with optical coherence tomography</title>. , 2001, , .		0
110	Comparative OCT imaging of the human esophagus: How well can we localize the muscularis mucosae?. , 2002, 4619, 187.		0
111	Using optical coherence tomography (OCT) for quantitative measurement of attenuation coefficients of the arterial wall. , 2003, 4949, 495.		0
112	Quantitative attenuation measurements with single-mode fiber-based OCT. , 2003, , .		0
113	Calculations of scattering by (de-)oxygenated whole blood. , 2004, , .		0
114	Discrimination of atherosclerotic plaque constituents based on local measurements of optical attenuation coefficients by OCT. , 2005, , .		0
115	Temperature-dependent optical properties of individual vascular wall components measured by OCT. , 2006, 6078, 381.		0
116	Structural and biochemical characterization of the rat retina with combined Raman spectroscopy-spectral domain optical coherence tomography (RS-SDOCT). Proceedings of SPIE, 2010, , .	0.8	0
117	Functional Optical Biopsy of epithelial tumors. , 2012, , .		0
118	Spectroscopic Low Coherence Interferometry. , 2015, , 1163-1187.		0
119	Quantification of numerical aperture-dependence of the OCT attenuation coefficient (Conference) Tj ETQq1 1 0.784314 rgBT ₀ /Overlock		0
120	Enâ€face optical coherence tomography for the detection of cancer in prostatectomy specimens: Quantitative analysis in 20 patients. Journal of Biophotonics, 2020, 13, e201960105.	2.3	0
121	Low Coherence Spectroscopy (LCS) for depth resolved measurements of optical properties in tissue.. , 2004, , .		0
122	Optical Coherence Tomography of the Ex-pressâ„¢ Miniature Glaucoma Implant. , 2005, , .		0
123	Apoptosis Induces Temporal Increase in Attenuation as Measured by Optical Coherence Tomography. , 2005, , .		0
124	Measurements of Wavelength Dependent Scattering Coefficients by Low Coherence Spectroscopy. , 2010, , .		0