

Dirk J Faber

List of Publications by Year in descending order

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124
papers

4,108
citations

126708

33
h-index

123241

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.	1.0	310
2	Recent developments in optical coherence tomography for imaging the retina. <i>Progress in Retinal and Eye Research</i> , 2007, 26, 57-77.	7.3	304
3	Quantitative measurement of attenuation coefficients of weakly scattering media using optical coherence tomography. <i>Optics Express</i> , 2004, 12, 4353.	1.7	271
4	Oxygen Saturation-Dependent Absorption and Scattering of Blood. <i>Physical Review Letters</i> , 2004, 93, 028102.	2.9	222
5	Light absorption of (oxy-)hemoglobin assessed by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2003, 28, 1436.	1.7	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.	5.4	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.	1.9	129
8	Toward assessment of blood oxygen saturation by spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2005, 30, 1015.	1.7	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.	0.9	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.	1.4	115
11	Influence of cataract on optical coherence tomography image quality and retinal thickness. <i>British Journal of Ophthalmology</i> , 2006, 90, 1259-1262.	2.1	104
12	Quantitative comparison of the OCT imaging depth at 1300 nm and 1600 nm. <i>Biomedical Optics Express</i> , 2010, 1, 176.	1.5	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.	0.2	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.	1.4	64
15	Determination of the scattering anisotropy with optical coherence tomography. <i>Optics Express</i> , 2011, 19, 6131.	1.7	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.	1.3	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.	1.0	58

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19	Quantitative blood flow velocity imaging using laser speckle flowmetry. <i>Scientific Reports</i> , 2016, 6, 25258.	1.6	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.	1.4	55
21	Multiple and dependent scattering effects in Doppler optical coherence tomography. <i>Optics Express</i> , 2010, 18, 3883.	1.7	54
22	Quantitative optical coherence tomography of arterial wall components. <i>Lasers in Medical Science</i> , 2005, 20, 45-51.	1.0	52
23	Are quantitative attenuation measurements of blood by optical coherence tomography feasible?. <i>Optics Letters</i> , 2009, 34, 1435.	1.7	52
24	Detection of buried Barrett's glands after radiofrequency ablation with volumetric laser endomicroscopy. <i>Gastrointestinal Endoscopy</i> , 2016, 83, 80-88.	0.5	52
25	Integrated system for combined Raman spectroscopy and spectral domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2011, 16, 011007.	1.4	51
26	Dependent and multiple scattering in transmission and backscattering optical coherence tomography. <i>Optics Express</i> , 2013, 21, 29145.	1.7	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.	1.4	51
28	Optical Diagnostics for Upper Urinary Tract Urothelial Cancer: Technology, Thresholds, and Clinical Applications. <i>Journal of Endourology</i> , 2015, 29, 113-123.	1.1	50
29	Advanced Diagnostics in Renal Mass Using Optical Coherence Tomography: A Preliminary Report. <i>Journal of Endourology</i> , 2011, 25, 311-315.	1.1	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.	1.7	41
31	Optical biopsy of epithelial cancers by optical coherence tomography (OCT). <i>Lasers in Medical Science</i> , 2013, 29, 1297-305.	1.0	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.	0.9	39
33	Macular pigment optical density measurements: evaluation of a device using heterochromatic flicker photometry. <i>Eye</i> , 2011, 25, 105-112.	1.1	36
34	Optical coherence tomography in vulvar intraepithelial neoplasia. <i>Journal of Biomedical Optics</i> , 2012, 17, 116022.	1.4	35
35	OCT Amplitude and Speckle Statistics of Discrete Random Media. <i>Scientific Reports</i> , 2017, 7, 14873.	1.6	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.	0.5	34

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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.	0.5	33
38	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography. <i>Biomedical Optics Express</i> , 2013, 4, 2570.	1.5	33
39	Quantitative measurements of absorption spectra in scattering media by low-coherence spectroscopy. <i>Optics Letters</i> , 2009, 34, 3746.	1.7	32
40	Measurements of wavelength dependent scattering and backscattering coefficients by low-coherence spectroscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 030503.	1.4	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.	1.4	31
42	Quantitative laser speckle flowmetry of the in vivo microcirculation using sidestream dark field microscopy. <i>Biomedical Optics Express</i> , 2013, 4, 2347.	1.5	30
43	Prostate cancer diagnosis: the feasibility of needle-based optical coherence tomography. <i>Journal of Medical Imaging</i> , 2015, 2, 037501.	0.8	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.	1.4	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.	1.1	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.	1.4	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.	0.2	22
48	Optical coherence tomography of the Ex-PRESS miniature glaucoma implant. <i>Lasers in Medical Science</i> , 2005, 20, 41-44.	1.0	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.	1.4	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.	1.2	21
51	Refractive index measurement using single fiber reflectance spectroscopy. <i>Journal of Biophotonics</i> , 2019, 12, e201900019.	1.1	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.	1.1	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.	0.6	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.	1.4	17

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55	Modeling subdiffusive light scattering by incorporating the tissue phase function and detector numerical aperture. <i>Journal of Biomedical Optics</i> , 2017, 22, 050501.	1.4	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.	1.4	17
57	Functional optical coherence tomography of pigmented lesions. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2015, 29, 738-744.	1.3	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.	0.2	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.	1.6	14
60	Spectral domain detection in low-coherence spectroscopy. <i>Biomedical Optics Express</i> , 2012, 3, 2263.	1.5	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.	1.2	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.	0.8	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.	1.1	13
64	Single fiber reflectance spectroscopy calibration. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	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.	1.4	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.	1.1	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.	1.9	11
69	In Vivo, Percutaneous, Needle Based, Optical Coherence Tomography of Renal Masses. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	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.	1.6	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.	1.1	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.	1.4	10

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73	Subdiffuse scattering model for single fiber reflectance spectroscopy. Journal of Biomedical Optics, 2020, 25, 1.	1.4	10
74	Analytical model for diffuse reflectance in single fiber reflectance spectroscopy. Optics Letters, 2020, 45, 2078.	1.7	10
75	Multidiameter single-fiber reflectance spectroscopy of heavily pigmented skin: modeling the inhomogeneous distribution of melanin. Journal of Biomedical Optics, 2019, 24, 1.	1.4	9
76	Wavelength swept Ti:sapphire laser. Optics Communications, 2008, 281, 4975-4978.	1.0	8
77	Assesment of apoptosis induced changes in scattering using optical coherence tomography. Journal of Biophotonics, 2016, 9, 913-923.	1.1	8
78	Subdiffuse scattering and absorption model for single fiber reflectance spectroscopy. Biomedical Optics Express, 2020, 11, 6620.	1.5	8
79	Learning curve and interobserver variance in quantification of the optical coherence tomography attenuation coefficient. Journal of Biomedical Optics, 2015, 20, 121313.	1.4	6
80	Bayesian analysis of depth resolved OCT attenuation coefficients. Scientific Reports, 2021, 11, 2263.	1.6	6
81	Experimental validation of a recently developed model for single-fiber reflectance spectroscopy. Journal of Biomedical Optics, 2021, 26, .	1.4	6
82	Optical coherence tomography accurately identifies patients with penile (pre) malignant lesions: A single center prospective study. Urology Annals, 2015, 7, 459.	0.3	6
83	NAOMI: nanoparticle assisted optical molecular imaging. , 2006, , .		5
84	Quantitative comparison of analysis methods for spectroscopic optical coherence tomography: reply to comment. Biomedical Optics Express, 2014, 5, 3034.	1.5	5
85	Effect of probe pressure on skin tissue optical properties measurement using multi-diameter single fiber reflectance spectroscopy. JPhys Photonics, 2020, 2, 034008.	2.2	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. Journal of Applied Physiology, 2017, 122, 307-316.	1.2	4
89	Toward improved endoscopic surveillance with multidiameter single fiber reflectance spectroscopy in patients with Barrett's esophagus. Journal of Biophotonics, 2021, 14, e202000351.	1.1	4
90	Oxygen saturation dependent absorption and scattering of whole blood. , 2004, , .		3

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91	Colour Oscillations in Arterioarterial Anastomoses Reflect Natural Differences in Donor and Recipient Oxygenation and Hematocrit. Placenta, 2006, 27, 1055-1059.	0.7	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.	0.6	3
93	Noninvasive fluence rate mapping in living tissues using magnetic resonance thermometry. Journal of Biomedical Optics, 2017, 22, 036001.	1.4	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.	0.8	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.	1.4	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.	1.9	1
107	Concentration Dependent Scattering Coefficients of Intralipid Measured with OCT. , 2010, , .		1
108	Pathlength distribution of (sub)diffusively reflected light. , 2019, , .		1

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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.	1.1	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