

Christoph K Hitzemberger

List of Publications by Year in descending order

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280
papers

13,876
citations

22153

59
h-index

23533

111
g-index

283
all docs

283
docs citations

283
times ranked

5960
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical coherence tomography - principles and applications. Reports on Progress in Physics, 2003, 66, 239-303.	20.1	1,735
2	Measurement of intraocular distances by backscattering spectral interferometry. Optics Communications, 1995, 117, 43-48.	2.1	1,317
3	In Vivo Optical Coherence Tomography. American Journal of Ophthalmology, 1993, 116, 113-114.	3.3	458
4	Measurement and imaging of birefringence and optic axis orientation by phase resolved polarization sensitive optical coherence tomography. Optics Express, 2001, 9, 780.	3.4	436
5	Partial coherence interferometry: a novel approach to biometry in cataract surgery. American Journal of Ophthalmology, 1998, 126, 524-534.	3.3	377
6	Polarization sensitive optical coherence tomography – a review [Invited]. Biomedical Optics Express, 2017, 8, 1838.	2.9	299
7	Retinal pigment epithelium segmentation by polarization sensitive optical coherence tomography. Optics Express, 2008, 16, 16410.	3.4	289
8	High speed spectral domain polarization sensitive optical coherence tomography of the human retina. Optics Express, 2005, 13, 10217.	3.4	265
9	Speckle reduction in optical coherence tomography by frequency compounding. Journal of Biomedical Optics, 2003, 8, 565.	2.6	251
10	Polarization sensitive optical coherence tomography in the human eye. Progress in Retinal and Eye Research, 2011, 30, 431-451.	15.5	228
11	Bidirectional Doppler Fourier-domain optical coherence tomography for measurement of absolute flow velocities in human retinal vessels. Optics Letters, 2008, 33, 2967.	3.3	203
12	Phase-shifting algorithm to achieve high-speed long-depth-range probing by frequency-domain optical coherence tomography. Optics Letters, 2003, 28, 2201.	3.3	199
13	Three-dimensional imaging of the human retina by high-speed optical coherence tomography. Optics Express, 2003, 11, 2753.	3.4	193
14	Real-time measurement of in vitro flow by Fourier-domain color Doppler optical coherence tomography. Optics Letters, 2004, 29, 171.	3.3	192
15	Human Macula Investigated In Vivo with Polarization-Sensitive Optical Coherence Tomography. , 2006, 47, 5487.		181
16	Imaging of polarization properties of human retina in vivo with phase resolved transversal PS-OCT. Optics Express, 2004, 12, 5940.	3.4	164
17	Improved prediction of intraocular lens power using partial coherence interferometry. Journal of Cataract and Refractive Surgery, 2001, 27, 861-867.	1.5	163
18	Full range complex spectral domain optical coherence tomography without additional phase shifters. Optics Express, 2007, 15, 13375.	3.4	155

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19	Measurement and imaging of birefringent properties of the human cornea with phase-resolved, polarization-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2004, 9, 94.	2.6	150
20	Visualization of microvasculature by dual-beam phase-resolved Doppler optical coherence tomography. <i>Optics Express</i> , 2011, 19, 1217.	3.4	142
21	Transversal phase resolved polarization sensitive optical coherence tomography. <i>Physics in Medicine and Biology</i> , 2004, 49, 1257-1263.	3.0	135
22	High speed full range complex spectral domain optical coherence tomography. <i>Optics Express</i> , 2005, 13, 583.	3.4	135
23	Polarization sensitive optical coherence tomography of melanin provides intrinsic contrast based on depolarization. <i>Biomedical Optics Express</i> , 2012, 3, 1670.	2.9	134
24	Biometric investigation of changes in the anterior eye segment during accommodation. <i>Vision Research</i> , 1997, 37, 2789-2800.	1.4	122
25	Numerical dispersion compensation for Partial Coherence Interferometry and Optical Coherence Tomography. <i>Optics Express</i> , 2001, 9, 610.	3.4	122
26	Imaging of the Retinal Pigment Epithelium in Age-Related Macular Degeneration Using Polarization-Sensitive Optical Coherence Tomography. , 2010, 51, 2149.		120
27	Simultaneous imaging of human cone mosaic with adaptive optics enhanced scanning laser ophthalmoscopy and high-speed transversal scanning optical coherence tomography. <i>Optics Letters</i> , 2008, 33, 22.	3.3	119
28	High precision biometry of pseudophakic eyes using partial coherence interferometry. <i>Journal of Cataract and Refractive Surgery</i> , 1998, 24, 1087-1093.	1.5	117
29	Dispersion Effects in Partial Coherence Interferometry: Implications for Intraocular Ranging. <i>Journal of Biomedical Optics</i> , 1999, 4, 144.	2.6	112
30	Retinal cone mosaic imaged with transverse scanning optical coherence tomography. <i>Optics Letters</i> , 2006, 31, 1821.	3.3	110
31	En-face scanning optical coherence tomography with ultra-high resolution for material investigation. <i>Optics Express</i> , 2005, 13, 1015.	3.4	107
32	Investigation of Dispersion Effects in Ocular Media by Multiple Wavelength Partial Coherence Interferometry. <i>Experimental Eye Research</i> , 1998, 66, 25-33.	2.6	106
33	Drusen volume development over time and its relevance to the course of age-related macular degeneration. <i>British Journal of Ophthalmology</i> , 2017, 101, 198-203.	3.9	105
34	Three dimensional polarization sensitive OCT of human skin in vivo. <i>Optics Express</i> , 2004, 12, 3236.	3.4	101
35	Measurement of corneal thickness by low-coherence interferometry. <i>Applied Optics</i> , 1992, 31, 6637.	2.1	98
36	Segmentation and quantification of retinal lesions in age-related macular degeneration using polarization-sensitive optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2010, 15, 061704.	2.6	98

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37	Quantitative differential phase measurement and imaging in transparent and turbid media by optical coherence tomography. <i>Optics Letters</i> , 2001, 26, 518.	3.3	97
38	Polarization maintaining fiber based ultra-high resolution spectral domain polarization sensitive optical coherence tomography. <i>Optics Express</i> , 2009, 17, 22704.	3.4	96
39	Retinal optical coherence tomography: past, present and future perspectives. <i>British Journal of Ophthalmology</i> , 2011, 95, 171-177.	3.9	95
40	Adaptive optics SLO/OCT for 3D imaging of human photoreceptors in vivo. <i>Biomedical Optics Express</i> , 2014, 5, 439.	2.9	95
41	Dynamic coherent focus OCT with depth-independent transversal resolution. <i>Journal of Modern Optics</i> , 1999, 46, 541-553.	1.3	93
42	A thermal light source technique for optical coherence tomography. <i>Optics Communications</i> , 2000, 185, 57-64.	2.1	93
43	Interferometric Measurement of Corneal Thickness With Micrometer Precision. <i>American Journal of Ophthalmology</i> , 1994, 118, 468-476.	3.3	87
44	Simultaneous SLO/OCT imaging of the human retina with axial eye motion correction. <i>Optics Express</i> , 2007, 15, 16922.	3.4	86
45	Single camera based spectral domain polarization sensitive optical coherence tomography. <i>Optics Express</i> , 2007, 15, 1054.	3.4	83
46	Optical Coherence Tomography (OCT) in Ophthalmology: Introduction. <i>Optics Express</i> , 2009, 17, 3978.	3.4	81
47	Changes in intraocular lens position after neodymium:YAG capsulotomy. <i>Journal of Cataract and Refractive Surgery</i> , 1999, 25, 659-662.	1.5	80
48	Accurate determination of effective lens position and lens-capsule distance with 4 intraocular lenses. <i>Journal of Cataract and Refractive Surgery</i> , 1998, 24, 1094-1098.	1.5	77
49	Speckle noise reduction in high speed polarization sensitive spectral domain optical coherence tomography. <i>Optics Express</i> , 2011, 19, 14568.	3.4	73
50	In vivo investigation of human cone photoreceptors with SLO/OCT in combination with 3D motion correction on a cellular level. <i>Optics Express</i> , 2010, 18, 13935.	3.4	72
51	Progression of Retinal Pigment Epithelial Atrophy in Antiangiogenic Therapy of Neovascular Age-Related Macular Degeneration. <i>American Journal of Ophthalmology</i> , 2015, 159, 1100-1114.e1.	3.3	70
52	Biometry of cataractous eyes using partial coherence interferometry. <i>Journal of Cataract and Refractive Surgery</i> , 2002, 28, 224-229.	1.5	69
53	Imaging of Birefringent Properties of Keratoconus Corneas by Polarization-Sensitive Optical Coherence Tomography. , 2007, 48, 3551.		69
54	Total retinal blood flow measurement by three beam Doppler optical coherence tomography. <i>Biomedical Optics Express</i> , 2016, 7, 287.	2.9	69

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55	Measurement of Intraocular Optical Distances Using Partially Coherent Laser Light. Journal of Modern Optics, 1991, 38, 1327-1333.	1.3	68
56	Refractive outcome of cataract surgery using partial coherence interferometry and ultrasound biometry. Journal of Cataract and Refractive Surgery, 2002, 28, 230-234.	1.5	68
57	Measurement and imaging of water concentration in human cornea with differential absorption optical coherence tomography. Optics Express, 2003, 11, 2190.	3.4	68
58	Investigation of glass-fibre reinforced polymers by polarisation-sensitive, ultra-high resolution optical coherence tomography: Internal structures, defects and stress. Composites Science and Technology, 2007, 67, 3051-3058.	7.8	67
59	Transversal ultrahigh-resolution polarizationsensitive optical coherence tomography for strain mapping in materials. Optics Express, 2006, 14, 5945.	3.4	65
60	Polarisation-sensitive optical coherence tomography for material characterisation and strain-field mapping. Applied Physics A: Materials Science and Processing, 2003, 76, 947-951.	2.3	64
61	Differential phase contrast in optical coherence tomography. Optics Letters, 1999, 24, 622.	3.3	63
62	Three-dimensional polarization sensitive OCT imaging and interactive display of the human retina. Optics Express, 2009, 17, 4151.	3.4	63
63	Performance of Automated Drusen Detection by Polarization-Sensitive Optical Coherence Tomography. , 2011, 52, 4571.		62
64	Dispersion compensation for optical coherence tomography depth-scan signals by a numerical technique. Optics Communications, 2002, 204, 67-74.	2.1	60
65	Corneal birefringence compensation for polarization sensitive optical coherence tomography of the human retina. Journal of Biomedical Optics, 2007, 12, 041210.	2.6	58
66	<i>In vitro</i> and <i>in vivo</i> three-dimensional velocity vector measurement by three-beam spectral-domain Doppler optical coherence tomography. Journal of Biomedical Optics, 2013, 18, 116010.	2.6	54
67	Lens based adaptive optics scanning laser ophthalmoscope. Optics Express, 2012, 20, 17297.	3.4	53
68	High-speed polarization sensitive optical coherence tomography scan engine based on Fourier domain mode locked laser. Biomedical Optics Express, 2012, 3, 2987.	2.9	51
69	Spectroscopic imaging with spectral domain visible light optical coherence microscopy in Alzheimer's disease brain samples. Biomedical Optics Express, 2017, 8, 4007.	2.9	51
70	Automated measurement of choroidal thickness in the human eye by polarization sensitive optical coherence tomography. Optics Express, 2012, 20, 7564.	3.4	50
71	Measuring Retinal Nerve Fiber Layer Birefringence, Retardation, and Thickness Using Wide-Field, High-Speed Polarization Sensitive Spectral Domain OCT. , 2013, 54, 72.		50
72	<i>Complex spectral interferometry OCT</i> . , 1998, 3564, 173.		49

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73	Detection and Analysis of Hard Exudates by Polarization-Sensitive Optical Coherence Tomography in Patients With Diabetic Maculopathy. , 2014, 55, 1564.		49
74	Identification of Drusen Characteristics in Age-Related Macular Degeneration by Polarization-Sensitive Optical Coherence Tomography. American Journal of Ophthalmology, 2015, 160, 335-344.e1.	3.3	47
75	Large-field high-speed polarization sensitive spectral domain OCT and its applications in ophthalmology. Biomedical Optics Express, 2012, 3, 2720.	2.9	46
76	Dynamic optical studies in materials testing with spectral-domain polarization-sensitive optical coherence tomography. Optics Express, 2010, 18, 25712.	3.4	45
77	Motion artifact and speckle noise reduction in polarization sensitive optical coherence tomography by retinal tracking. Biomedical Optics Express, 2014, 5, 106.	2.9	44
78	Melanin Pigmentation in Rat Eyes: In Vivo Imaging by Polarization-Sensitive Optical Coherence Tomography and Comparison to Histology. , 2015, 56, 7462.		44
79	Non-destructive quantification of internal stress in polymer materials by polarisation sensitive optical coherence tomography. Acta Materialia, 2005, 53, 2785-2791.	7.9	41
80	Visualization of neuritic plaques in Alzheimerâ€™s disease by polarization-sensitive optical coherence microscopy. Scientific Reports, 2017, 7, 43477.	3.3	41
81	Signal averaging improves signal-to-noise in OCT images: But which approach works best, and when?. Biomedical Optics Express, 2019, 10, 5755.	2.9	41
82	Automated Identification and Quantification of Subretinal Fibrosis in Neovascular Age-Related Macular Degeneration Using Polarization-Sensitive OCT. , 2016, 57, 1699.		39
83	Measurements of depolarization distribution in the healthy human macula by polarization sensitive OCT. Journal of Biophotonics, 2009, 2, 426-434.	2.3	38
84	Polarimetric analysis of the human cornea measured by polarization-sensitive optical coherence tomography. Journal of Biomedical Optics, 2010, 15, 056004.	2.6	38
85	Direct curvature correction for noncontact imaging modalities applied to multispectral imaging. Journal of Biomedical Optics, 2010, 15, 046013.	2.6	38
86	Single input state polarization sensitive swept source optical coherence tomography based on an all single mode fiber interferometer. Biomedical Optics Express, 2014, 5, 2798.	2.9	38
87	Henle fiber layer phase retardation measured with polarization-sensitive optical coherence tomography. Biomedical Optics Express, 2013, 4, 2296.	2.9	36
88	En face imaging of single cell layers by differential phase-contrast optical coherence microscopy. Optics Letters, 2002, 27, 1126.	3.3	34
89	Retinal nerve fiber bundle tracing and analysis in human eye by polarization sensitive OCT. Biomedical Optics Express, 2015, 6, 1030.	2.9	34
90	Analysis of the Origin of Atypical Scanning Laser Polarimetry Patterns by Polarization-Sensitive Optical Coherence Tomography. , 2008, 49, 5366.		34

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91	Flow velocity measurements by frequency domain short coherence interferometry. , 2002, 4619, 16.		33
92	Characterization of Stargardt Disease Using Polarization-Sensitive Optical Coherence Tomography and Fundus Autofluorescence Imaging. , 2013, 54, 6416.		33
93	Peripapillary Rat Sclera Investigated In Vivo With Polarization-Sensitive Optical Coherence Tomography. , 2014, 55, 7686.		32
94	Imaging of retinal vasculature using adaptive optics SLO/OCT. Biomedical Optics Express, 2015, 6, 1407.	2.9	32
95	Lesion Size Detection in Geographic Atrophy by Polarization-Sensitive Optical Coherence Tomography and Correlation to Conventional Imaging Techniques. , 2013, 54, 739.		31
96	Multi-Functional OCT Enables Longitudinal Study of Retinal Changes in a VLDLR Knockout Mouse Model. PLoS ONE, 2016, 11, e0164419.	2.5	31
97	Three-beam Doppler optical coherence tomography using a facet prism telescope and MEMS mirror for improved transversal resolution. Journal of Modern Optics, 2015, 62, 1781-1788.	1.3	30
98	White light polarization sensitive optical coherence tomography for sub-micron axial resolution and spectroscopic contrast in the murine retina. Biomedical Optics Express, 2018, 9, 2115.	2.9	30
99	Measurement of the spatial coherence of superluminescent diodes. Journal of Modern Optics, 1999, 46, 1763-1774.	1.3	29
100	Retinal polarization-sensitive optical coherence tomography at 1060Ånm with 350ÅkHz A-scan rate using an Fourier domain mode locked laser. Journal of Biomedical Optics, 2013, 18, 026008.	2.6	29
101	Conical scan pattern for enhanced visualization of the human cornea using polarization-sensitive OCT. Biomedical Optics Express, 2017, 8, 2906.	2.9	28
102	Extended in vivo anterior eye-segment imaging with full-range complex spectral domain optical coherence tomography. Journal of Biomedical Optics, 2009, 14, 1.	2.6	27
103	Polarization properties of single layers in the posterior eyes of mice and rats investigated using high resolution polarization sensitive optical coherence tomography. Biomedical Optics Express, 2016, 7, 1479.	2.9	27
104	Increasing the field of view of adaptive optics scanning laser ophthalmoscopy. Biomedical Optics Express, 2017, 8, 4811.	2.9	26
105	Beyond backscattering: optical neuroimaging by BRAD. Biomedical Optics Express, 2018, 9, 2476.	2.9	25
106	Spatially Resolved Stress Measurements in Materials With Polarisation-Sensitive Optical Coherence Tomography: Image Acquisition and Processing Aspects. Strain, 2010, 46, 61-68.	2.4	24
107	Multi-directional optical coherence tomography for retinal imaging. Biomedical Optics Express, 2017, 8, 5560.	2.9	24
108	Identification and Quantification of the Angiofibrotic Switch in Neovascular AMD. , 2019, 60, 304.		24

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109	Retinal Pigment Epithelial Features in Central Serous Chorioretinopathy Identified by Polarization-Sensitive Optical Coherence Tomography. , 2016, 57, 1595.		23
110	Optical coherence tomography of dental structures. Proceedings of SPIE, 1998, , .	0.8	22
111	Principal component model of multispectral data for near real-time skin chromophore mapping. Journal of Biomedical Optics, 2010, 15, 046007.	2.6	22
112	Imaging Retinal Pigment Epithelial Proliferation Secondary to PASCAL Photocoagulation In Vivo by Polarization-sensitive Optical Coherence Tomography. American Journal of Ophthalmology, 2013, 155, 1058-1067.e1.	3.3	22
113	Single-camera polarization-sensitive spectral-domain OCT by spatial frequency encoding. Optics Letters, 2010, 35, 241.	3.3	21
114	Active-passive path-length encoded (APPLE) Doppler OCT. Biomedical Optics Express, 2016, 7, 5233.	2.9	21
115	Hyperspectral optical coherence tomography for in vivo visualization of melanin in the retinal pigment epithelium. Journal of Biophotonics, 2019, 12, e201900153.	2.3	21
116	Visualizing human photoreceptor and retinal pigment epithelium cell mosaics in a single volume scan over an extended field of view with adaptive optics optical coherence tomography. Biomedical Optics Express, 2020, 11, 4520.	2.9	21
117	Analysis of optimum conditions of depolarization imaging by polarization-sensitive optical coherence tomography in the human retina. Journal of Biomedical Optics, 2015, 20, 016011.	2.6	20
118	Assessment of pathological features in Alzheimer's disease brain tissue with a large field-of-view visible-light optical coherence microscope. Neurophotonics, 2018, 5, 1.	3.3	20
119	Polarization-Sensitive Optical Coherence Tomography and Conventional Retinal Imaging Strategies in Assessing Foveal Integrity in Geographic Atrophy. , 2015, 56, 5246.		19
120	Sample motion-insensitive, full-range, complex, spectral-domain optical-coherence tomography. Optics Letters, 2010, 35, 3913.	3.3	18
121	RETINAL PIGMENT EPITHELIUM FINDINGS IN PATIENTS WITH ALBINISM USING WIDE-FIELD POLARIZATION-SENSITIVE OPTICAL COHERENCE TOMOGRAPHY. Retina, 2014, 34, 2208-2217.	1.7	18
122	Polarization-sensitive optical coherence tomography imaging of the anterior mouse eye. Journal of Biomedical Optics, 2018, 23, 1.	2.6	18
123	Quantitative principal component model for skin chromophore mapping using multi-spectral images and spatial priors. Biomedical Optics Express, 2011, 2, 1040.	2.9	17
124	High-Speed Retinal Imaging with Polarization-Sensitive OCT at 1040 nm. Optometry and Vision Science, 2012, 89, 585-592.	1.2	16
125	Key Developments for Partial Coherence Biometry and Optical Coherence Tomography in the Human Eye Made in Vienna. , 2016, 57, OCT460.		16
126	Retinal pigment epithelial features indicative of neovascular progression in age-related macular degeneration. British Journal of Ophthalmology, 2017, 101, 1361-1366.	3.9	16

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127	Optical coherence tomography in Optics Express [Invited]. Optics Express, 2018, 26, 24240.	3.4	16
128	Impact of drusen and drusenoid retinal pigment epithelium elevation size and structure on the integrity of the retinal pigment epithelium layer. British Journal of Ophthalmology, 2019, 103, 227-232.	3.9	16
129	Revealing brain pathologies with multimodal visible light optical coherence microscopy and fluorescence imaging. Journal of Biomedical Optics, 2019, 24, 1.	2.6	16
130	Optical Biometry in Cataract Surgery. , 2002, 34, 131-140.		15
131	Mapping of Corneal Layer Thicknesses With Polarization-Sensitive Optical Coherence Tomography Using a Conical Scan Pattern. , 2018, 59, 5579.		15
132	In Vivo Characterization of Spontaneous Retinal Neovascularization in the Mouse Eye by Multifunctional Optical Coherence Tomography. , 2018, 59, 2054.		15
133	Identification and quantification of fibrotic areas in the human retina using polarization-sensitive OCT. Biomedical Optics Express, 2021, 12, 4380.	2.9	15
134	Generating large field of view en-face projection images from intra-acquisition motion compensated volumetric optical coherence tomography data. Biomedical Optics Express, 2020, 11, 6881.	2.9	15
135	Phase contrast coherence microscopy based on transverse scanning. Optics Letters, 2009, 34, 1750.	3.3	14
136	Posterior rat eye during acute intraocular pressure elevation studied using polarization sensitive optical coherence tomography. Biomedical Optics Express, 2017, 8, 298.	2.9	14
137	Large Field of View Corneal Epithelium and Bowman's Layer Thickness Maps in Keratoconic and Healthy Eyes. American Journal of Ophthalmology, 2020, 209, 168-177.	3.3	13
138	Optical Coherence Tomography for Examination of Parchment Degradation. Laser Chemistry, 2006, 2006, 1-6.	0.5	12
139	High sensitive measurement of the human axial eye length in vivo with Fourier domain low coherence interferometry. Optics Express, 2008, 16, 2405.	3.4	12
140	Analysis of retinal nerve fiber layer birefringence in patients with glaucoma and diabetic retinopathy by polarization sensitive OCT. Biomedical Optics Express, 2020, 11, 5488.	2.9	12
141	Baseline predictors for subretinal fibrosis in neovascular age-related macular degeneration. Scientific Reports, 2022, 12, 88.	3.3	12
142	Polarisation-sensitive OCT is useful for evaluating retinal pigment epithelial lesions in patients with neovascular AMD. British Journal of Ophthalmology, 2016, 100, 371-377.	3.9	11
143	<title>Measurements of the posterior structures of the human eye in vivo by partial-coherence interferometry using diffractive optics</title>. , 1997, , .		10
144	<title>Dispersion effects in partial coherence interferometry</title>. , 1997, , .		10

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145	Differential phase measurements in low-coherence interferometry without 2π ambiguity. Optics Letters, 2001, 26, 1864.	3.3	10
146	Ocular fundus pulsations within the posterior rat eye: Choroidal motion and response to elevated intraocular pressure. Scientific Reports, 2017, 7, 8780.	3.3	10
147	Investigating spontaneous retinal venous pulsation using Doppler optical coherence tomography. Scientific Reports, 2019, 9, 4237.	3.3	10
148	Ultrahigh Resolution Polarization Sensitive Optical Coherence Tomography of the Human Cornea with Conical Scanning Pattern and Variable Dispersion Compensation. Applied Sciences (Switzerland), 2019, 9, 4245.	2.5	10
149	Ultrahigh-resolution polarization-sensitive optical coherence tomography. , 2005, , .		9
150	Dispersion-based optical coherence tomography OCT measurement of mixture concentrations. Optics Letters, 2007, 32, 2924.	3.3	9
151	Broadband Fourier domain mode-locked laser for optical coherence tomography at 1060 nm. Proceedings of SPIE, 2012, , .	0.8	8
152	MORPHOLOGIC CHARACTERISTICS OF IDIOPATHIC JUXTAFOVEAL TELANGIECTASIA USING SPECTRAL-DOMAIN AND POLARIZATION-SENSITIVE OPTICAL COHERENCE TOMOGRAPHY. Retina, 2012, 32, 256-264.	1.7	8
153	Retinal adaptive optics imaging with a pyramid wavefront sensor. Biomedical Optics Express, 2021, 12, 5969.	2.9	8
154	Spectral degree of polarization uniformity for polarization-sensitive OCT. Journal of Modern Optics, 2015, 62, 1758-1763.	1.3	7
155	IMAGING OF VITELLIFORM MACULAR LESIONS USING POLARIZATION-SENSITIVE OPTICAL COHERENCE TOMOGRAPHY. Retina, 2019, 39, 558-569.	1.7	7
156	Three-dimensional polarization-sensitive optical coherence tomography of normal and pathologic human cornea. , 2003, , .		6
157	Adolf Friedrich Fercher: a pioneer of biomedical optics. Journal of Biomedical Optics, 2017, 22, 1.	2.6	6
158	Adaptable switching schemes for time-encoded multichannel optical coherence tomography. Journal of Biomedical Optics, 2018, 23, 1.	2.6	6
159	Analysis of longitudinal sections of retinal vessels using Doppler OCT. Biomedical Optics Express, 2020, 11, 1772.	2.9	6
160	<title>Multiple-wavelength partial coherence interferometry</title>. , 1996, , .		5
161	Special Section Guest Editorial. Journal of Biomedical Optics, 1999, 4, 94.	2.6	5
162	Polarization sensitive optical coherence tomography of melanin provides tissue inherent contrast based on depolarization. , 2010, , .		5

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163	Influence of wave-front sampling in adaptive optics retinal imaging. Biomedical Optics Express, 2017, 8, 1083.	2.9	5
164	Polarization-sensitive imaging with simultaneous bright- and dark-field optical coherence tomography. Optics Letters, 2019, 44, 4040.	3.3	5
165	<title>Ocular partial-coherence tomography</title>. , 1996, 2732, 229.		4
166	<title>In-vivo intraocular ranging by wavelength tuning interferometry</title>. , 1998, , .		4
167	Ultra-high resolution optical coherence tomography for material characterization and quality control. , 2005, 5714, 108.		4
168	Quantitative assessment of ischemia and reactive hyperemia of the dermal layers using multi - spectral imaging on the human arm. Proceedings of SPIE, 2009, , .	0.8	4
169	Spectral domain polarization sensitive optical coherence tomography at 1.55 μ m: novel developments and applications for dynamic studies in materials science. , 2011, , .		4
170	Comparison of Intensity- and Polarization-based Contrast in Amyloid-beta Plaques as Observed by Optical Coherence Tomography. Applied Sciences (Switzerland), 2019, 9, 2100.	2.5	4
171	Optical Coherence Tomography Findings in the Retinas of SOD1 Knockout Mice. Translational Vision Science and Technology, 2020, 9, 15.	2.2	4
172	Slit lamp laser doppler interferometer. Lasers in Surgery and Medicine, 1993, 13, 447-452.	2.1	3
173	Scanning laser interferometer for fundus profile measurement of the human eye. , 1994, , .		3
174	<title>OCT techniques</title>. , 1996, , .		3
175	Glucose dispersion measurement using white-light LCI. , 2003, 4956, 348.		3
176	Novel phase-shifting algorithm to achieve high-speed long-depth range probing by frequency domain optical coherence tomography. , 2003, , .		3
177	Modeling human corneal polarization properties and comparison with PS-OCT measurements. Proceedings of SPIE, 2009, , .	0.8	3
178	Relationship between morphological and vascular alterations in geographic atrophy using a multimodal imaging approach. Acta Ophthalmologica, 2020, 98, e700-e708.	1.1	3
179	Early Identification of Retinal Neuropathy in Subclinical Diabetic Eyes by Reduced Birefringence of the Peripapillary Retinal Nerve Fiber Layer. , 2021, 62, 24.		3
180	Temporal phase evolution OCT for measurement of tissue deformation in the human retina in-vivo. Biomedical Optics Express, 2021, 12, 7092.	2.9	3

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181	<title>Measurement of the axial eye length by wavelength-tuning interferometry</title>. , 1996, , .		2
182	<title>Depth-resolved spectroscopy by frequency-domain optical coherence tomography</title>. , 2000, 4160, 57.		2
183	<title>Optical coherence tomography technique for thermal light sources</title>. , 2000, 4160, 63.		2
184	Overcoming the 2π ambiguity in low-coherence interferometric differential phase measurements. , 2001, , .		2
185	<title>New dispersion compensation technique for Partial Coherence Interferometry (PCI) and Optical Coherence Tomography (OCT)</title>. , 2001, 4431, 12.		2
186	Three-dimensional optical coherence tomography of the human retina in vivo by high-speed transversal scanning. , 2004, , .		2
187	Polarization-sensitive optical coherence tomography: a comparison of methods. , 2004, , .		2
188	Optische Kohärenztomografie als neues Werkzeug für die zerstörungsfreie Werkstoffprüfung (Optical Coherence Tomography as a Novel Tool for Non-Destructive Material Characterization). TM Technisches Messen, 2007, 74, 51-56.	0.7	2
189	Imaging the human retina in vivo with combined spectral-domain polarization-sensitive optical coherence tomography and scanning laser ophthalmoscopy. , 2009, , .		2
190	High-speed polarization sensitive optical coherence tomography scan engine based on Fourier domain mode locked laser: erratum. Biomedical Optics Express, 2013, 4, 241.	2.9	2
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192	New Developments in Optical Coherence Tomography Technology. Essentials in Ophthalmology, 2010, , 201-216.	0.1	2
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