Martin Hammer

List of Publications by Year
in descending order

64 papers	2,372 citations	257101 24 h-index	253896 43 g-index
69 all docs	69 docs citations	69 times ranked	1672 citing authors

#	Article	IF	Citations
1	Spectral and lifetime resolution of fundus autofluorescence in advanced ageâ€related macular degeneration revealing different signal sources. Acta Ophthalmologica, 2022, 100, .	0.6	6
2	Impact of cataract on the spectral measurement of fundus autofluorescence. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, , 1.	1.0	1
3	Fluorescence lifetime and peak emission wavelength differ between <scp>AMD</scp> patients with soft drusen and subâ€retinal drusenoid deposits. Acta Ophthalmologica, 2022, 100, .	0.6	2
4	Optic disc blood perfusion and oxygenation in glaucoma. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, 260, 3587-3595.	1.0	2
5	Spectral calibration of fluorescence lifetime imaging ophthalmoscopy. Acta Ophthalmologica, 2021, , .	0.6	5
6	Changes of retinal oxygen saturation during treatment of diabetic macular edema with a pre-defined regimen of aflibercept: a prospective study. Graefe's Archive for Clinical and Experimental Ophthalmology, 2021, , 1.	1.0	0
7	Progressive Dysmorphia of Retinal Pigment Epithelium in Age-Related Macular Degeneration Investigated by Fluorescence Lifetime Imaging. , 2021, 62, 2.		8
8	Fluorescence lifetimes increase over time in ageâ€related macular degeneration. Acta Ophthalmologica, 2021, 99, e970-e972.	0.6	7
9	Spectral fundus autofluorescence peak emission wavelength in ageing and AMD. Acta Ophthalmologica, 2021, , .	0.6	4
10	Fluorescence Lifetimes and Spectra of RPE and Sub-RPE Deposits in Histology of Control and AMD Eyes. , 2020, 61, 9.		10
11	Influence of Lens Fluorescence on Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) Fundus Imaging and Strategies for Its Compensation. Translational Vision Science and Technology, 2020, 9, 13.	1.1	8
12	Fundus Autofluorescence Lifetimes and Spectral Features of Soft Drusen and Hyperpigmentation in Age-Related Macular Degeneration. Translational Vision Science and Technology, 2020, 9, 20.	1.1	15
13	Comparison of algorithms to suppress artifacts from the natural lens in fluorescence lifetime imaging ophthalmoscopy (FLIO). Biomedical Optics Express, 2020, 11, 5586.	1.5	6
14	Retinal oximetry: Metabolic imaging for diseases of the retina and brain. Progress in Retinal and Eye Research, 2019, 70, 1-22.	7.3	89
15	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO). , 2019, , 213-235.		5
16	Bleaching effects and fluorescence lifetime imaging ophthalmoscopy. Biomedical Optics Express, 2019, 10, 1446.	1.5	7
17	FLIO in Diabetic Retinopathy. , 2019, , 65-70.		0
18	FLIO Historical Background. , 2019, , 7-11.		0

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19	Simplified approach to least-square fitting of fluorescence lifetime ophthalmoscopy (FLIO) data by fixating lifetimes. Biomedical Optics Express, 2019, 10, 5996.	1.5	1
20	Fluorescence Lifetime Imaging Ophthalmoscopy: A Novel Way to Assess Macular Telangiectasia Type 2. Ophthalmology Retina, 2018, 2, 587-598.	1.2	58
21	Monitoring foveal sparing in geographic atrophy with fluorescence lifetime imaging ophthalmoscopy â€“ a novel approach. Acta Ophthalmologica, 2018, 96, 257-266.	0.6	34
22	Patterns of Fundus Autofluorescence Lifetimes In Eyes of Individuals With Nonexudative Age-Related Macular Degeneration. , 2018, 59, AMD65.		54
23	Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO) of Macular Pigment. , 2018, 59, 3094.		49
24	Characterization of Retinitis Pigmentosa Using Fluorescence Lifetime Imaging Ophthalmoscopy (FLIO). Translational Vision Science and Technology, 2018, 7, 20.	1.1	29
25	Fundus autofluorescence beyond lipofuscin: lesson learned from ex vivo fluorescence lifetime imaging in porcine eyes. Biomedical Optics Express, 2018, 9, 3078.	1.5	17
26	Review of clinical approaches in fluorescence lifetime imaging ophthalmoscopy. Journal of Biomedical Optics, 2018, 23, 1.	1.4	43
27	Hydrogen peroxide modulates energy metabolism and oxidative stress in cultures of permanent human MÃ¼ller cells MIOâ€M1. Journal of Biophotonics, 2017, 10, 1180-1188.	1.1	6
28	Assessment of Optic Nerve Head Pallor in Primary Open-Angle Glaucoma Patients and Healthy Subjects. Current Eye Research, 2017, 42, 1313-1318.	0.7	9
29	Hypoxiaâ€induced redox signalling in MÃ¼ller cells. Acta Ophthalmologica, 2017, 95, e337-e339.	0.6	3
30	Fluorescence lifetime imaging ophthalmoscopy. Progress in Retinal and Eye Research, 2017, 60, 120-143.	7.3	161
31	Monitoring macular pigment changes in macular holes using fluorescence lifetime imaging ophthalmoscopy. Acta Ophthalmologica, 2017, 95, 481-492.	0.6	38
32	Fundus autofluorescence lifetimes are increased in nonâ€proliferative diabetic retinopathy. Acta Ophthalmologica, 2017, 95, 33-40.	0.6	43
33	Combination of confocal principle and aperture stop separation improves suppression of crystalline lens fluorescence in an eye model. Biomedical Optics Express, 2016, 7, 3198.	1.5	10
34	Venous retinal oxygen saturation is independent from nerve fibre layer thickness in glaucoma patients. Acta Ophthalmologica, 2016, 94, e243-4.	0.6	9
35	Dependence of diameters and oxygen saturation of retinal vessels on visual field damage and age in primary openâ€angle glaucoma. Acta Ophthalmologica, 2016, 94, 276-281.	0.6	17
36	Impact of Macular Pigment on Fundus Autofluorescence Lifetimes. , 2015, 56, 4668.		66

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37	FLIMX: A Software Package to Determine and Analyze the Fluorescence Lifetime in Time-Resolved Fluorescence Data from the Human Eye. PLoS ONE, 2015, 10, e0131640.	1.1	41
38	Fluorescence lifetime imaging ophthalmoscopy in type 2 diabetic patients who have no signs of diabetic retinopathy. Journal of Biomedical Optics, 2015, 20, 061106.	1.4	74
39	Retinal fluorescence lifetime imaging ophthalmoscopy measures depend on the severity of Alzheimer's disease. Acta Ophthalmologica, 2015, 93, e241-7.	0.6	74
40	Repeatability of Autofluorescence Lifetime Imaging at the Human Fundus in Healthy Volunteers. Current Eye Research, 2013, 38, 793-801.	0.7	37
41	Measurement of Retinal Oxygen Saturation in Patients with Chronic Obstructive Pulmonary Disease. , 2013, 54, 1008.		31
42	Time-Resolved Autofluorescence Imaging of Human Donor Retina Tissue from Donors with Significant Extramacular Drusen. , 2012, 53, 3376.		52
43	Retinal Vessel Oxygen Saturation under Flicker Light Stimulation in Patients with Nonproliferative Diabetic Retinopathy. , 2012, 53, 4063.		45
44	Retinal Venous Oxygen Saturation Increases by Flicker Light Stimulation. , 2011, 52, 274.		59
45	Simple and objective method for routine detection of the macular pigment xanthophyll. Journal of Biomedical Optics, 2010, 15, 061714.	1.4	34
46	Diabetic patients with retinopathy show increased retinal venous oxygen saturation. Graefe's Archive for Clinical and Experimental Ophthalmology, 2009, 247, 1025-1030.	1.0	157
47	Intrinsic tissue fluorescence in an organotypic perfusion culture of the porcine ocular fundus exposed to blue light and free radicals. Graefe's Archive for Clinical and Experimental Ophthalmology, 2008, 246, 979-988.	1.0	18
48	Retinal vessel oximetry-calibration, compensation for vessel diameter and fundus pigmentation, and reproducibility. Journal of Biomedical Optics, 2008, 13, 054015.	1.4	151
49	Ocular fundus auto-fluorescence observations at different wavelengths in patients with age-related macular degeneration and diabetic retinopathy. Graefe's Archive for Clinical and Experimental Ophthalmology, 2007, 246, 105-114.	1.0	36
50	Retinal pigment epithelium cell damage by A2-E and its photo-derivatives. Molecular Vision, 2006, 12, 1348-54.	1.1	23
51	Sodium fluorescein as a retinal pH indicator?. Physiological Measurement, 2005, 26, N9-N12.	1.2	31
52	In vivo measurement of time-resolved autofluorescence at the human fundus. Journal of Biomedical Optics, 2004, 9, 1214.	1.4	144
53	Evaluation of time-resolved autofluorescence images of the ocular fundus. , 2003, , .		9
54	Quantitative reflection spectroscopy at the human ocular fundus. Physics in Medicine and Biology, 2002, 47, 179-191.	1.6	77

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55	A simple algorithm forin vivoocular fundus oximetry compensating for non-haemoglobin absorption and scattering. Physics in Medicine and Biology, 2002, 47, N233-N238.	1.6	39
56	A scattering phase function for blood with physiological haematocrit. Physics in Medicine and Biology, 2001, 46, N65-N69.	1.6	59
57	Non-invasive measurement of the concentration of melanin, xanthophyll, and hemoglobin in single fundus layers in vivo by fundus reflectometry. International Ophthalmology, 2001, 23, 279-289.	0.6	10
58	Light paths in retinal vessel oximetry. IEEE Transactions on Biomedical Engineering, 2001, 48, 592-598.	2.5	53
59	‹title›Autofluorescence lifetime measurements in images of the human ocular fundus‹/title›. , 2001, 4432, 29.		14
60	Ï„ mapping of the autofluorescence of the human ocular fundus. , 2000, 4164, 79.		15
61	Single scattering by red blood cells. Applied Optics, 1998, 37, 7410.	2.1	188
62	Imaging spectroscopy of the human ocular fundus in vivo. Journal of Biomedical Optics, 1997, 2, 418.	1.4	28
63	Calibration-free measurement of the oxygen saturation in human retinal vessels. , 1995, , .		23
64	Spectrometric investigations in ocular hypertension and early stages of primary open angle glaucoma and of low tension glaucoma ? multisubstance analysis. International Ophthalmology, 1992, 16, 251-257.	0.6	13