

Juan M Bueno

List of Publications by Year in descending order

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87
papers

1,792
citations

331670

21
h-index

345221

36
g-index

90
all docs

90
docs citations

90
times ranked

1334
citing authors

#	ARTICLE	IF	CITATIONS
1	Monochromatic Aberrations as a Function of Age, from Childhood to Advanced Age. , 2003, 44, 5438.		127
2	Polarimetry using liquid-crystal variable retarders: theory and calibration. Journal of Optics, 2000, 2, 216-222.	1.5	123
3	Double-pass imaging polarimetry in the human eye. Optics Letters, 1999, 24, 64.	3.3	101
4	Multiphoton Microscopy of Ex Vivo Corneas after Collagen Cross-Linking. , 2011, 52, 5325.		71
5	Spatially resolved polarization properties for <i>in vitro</i> corneas. Ophthalmic and Physiological Optics, 2001, 21, 384-392.	2.0	66
6	Measurements of the corneal birefringence with a liquid-crystal imaging polariscope. Applied Optics, 2002, 41, 116.	2.1	64
7	Analysis of Corneal Stroma Organization With Wavefront Optimized Nonlinear Microscopy. Cornea, 2011, 30, 692-701.	1.7	59
8	Confocal scanning laser ophthalmoscopy improvement by use of Mueller-matrix polarimetry. Optics Letters, 2002, 27, 830.	3.3	56
9	Measurement of parameters of polarization in the living human eye using imaging polarimetry. Vision Research, 2000, 40, 3791-3799.	1.4	51
10	Analysis and quantification of collagen organization with the structure tensor in second harmonic microscopy images of ocular tissues. Applied Optics, 2015, 54, 9848.	2.1	47
11	Adaptive optics multiphoton microscopy to study ex vivo ocular tissues. Journal of Biomedical Optics, 2010, 15, 066004.	2.6	44
12	Three-dimensional spatiotemporal pulse characterization with an acousto-optic pulse shaper and a Hartmann-Shack wavefront sensor. Optics Letters, 2012, 37, 3291.	3.3	43
13	The wide-angle point spread function of the human eye reconstructed by a new optical method. Journal of Vision, 2012, 12, 20-20.	0.3	42
14	Polarization properties of the <i>in vitro</i> old human crystalline lens. Ophthalmic and Physiological Optics, 2003, 23, 109-118.	2.0	39
15	Improved scanning laser fundus imaging using polarimetry. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1337.	1.5	37
16	Wavefront optimized nonlinear microscopy of ex vivo human retinas. Journal of Biomedical Optics, 2010, 15, 026007.	2.6	35
17	In vivo two-photon microscopy of the human eye. Scientific Reports, 2019, 9, 10121.	3.3	33
18	Performance evaluation of a sensorless adaptive optics multiphoton microscope. Journal of Microscopy, 2016, 261, 249-258.	1.8	30

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19	Depolarization effects in the human eye. <i>Vision Research</i> , 2001, 41, 2687-2696.	1.4	28
20	Polarization and retinal image quality estimates in the human eye. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001, 18, 489.	1.5	25
21	Antixenosis and Antibiosis of Common Beans to Thrips palmi Karny (Thysanoptera: Thripidae). <i>Journal of Economic Entomology</i> , 2003, 96, 1577-1584.	1.8	25
22	Analysis of the chicken retina with an adaptive optics multiphoton microscope. <i>Biomedical Optics Express</i> , 2011, 2, 1637.	2.9	25
23	Optical Quality of the Eye with the Artisan Phakic Lens for the Correction of High Myopia. <i>Optometry and Vision Science</i> , 2003, 80, 167-174.	1.2	24
24	A Study on Image Quality in Polarization-Resolved Second Harmonic Generation Microscopy. <i>Scientific Reports</i> , 2017, 7, 15476.	3.3	24
25	Indices of linear polarization for an optical system. <i>Journal of Optics</i> , 2001, 3, 470-476.	1.5	23
26	Degree of polarization as an objective method of estimating scattering. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 1316.	1.5	23
27	Fluorescent bicolour sensor for low-background neutrinoless double $\hat{1}^2$ decay experiments. <i>Nature</i> , 2020, 583, 48-54.	27.8	23
28	Polarization dependence of aligned collagen tissues imaged with second harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2015, 20, 086001.	2.6	22
29	Wavefront correction in two-photon microscopy with a multi-actuator adaptive lens. <i>Optics Express</i> , 2018, 26, 14278.	3.4	21
30	The influence of depolarization and corneal birefringence on ocular polarization. <i>Journal of Optics</i> , 2004, 6, S91-S99.	1.5	20
31	Temporal wavefront stability of an ultrafast high-power laser beam. <i>Applied Optics</i> , 2009, 48, 770.	2.1	20
32	Quantitative Analysis of the Corneal Collagen Distribution after <i>In Vivo</i> Cross-Linking with Second Harmonic Microscopy. <i>BioMed Research International</i> , 2019, 2019, 1-12.	1.9	20
33	Quantifying external and internal collagen organization from Stokes-vector-based second harmonic generation imaging polarimetry. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 105301.	2.2	19
34	Characterizing image quality in a scanning laser ophthalmoscope with differing pinholes and induced scattered light. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1284.	1.5	18
35	Analysis of spatial lamellar distribution from adaptive-optics second harmonic generation corneal images. <i>Biomedical Optics Express</i> , 2013, 4, 1006.	2.9	17
36	Second harmonic generation signal in collagen fibers: role of polarization, numerical aperture, and wavelength. <i>Journal of Biomedical Optics</i> , 2012, 17, 045005.	2.6	16

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37	Multiphoton imaging microscopy at deeper layers with adaptive optics control of spherical aberration. <i>Journal of Biomedical Optics</i> , 2013, 19, 011007.	2.6	15
38	Quantitative Discrimination of Healthy and Diseased Corneas With Second Harmonic Generation Microscopy. <i>Translational Vision Science and Technology</i> , 2019, 8, 51.	2.2	15
39	Aberro-pola rscope for the human eye. <i>Optics Letters</i> , 2003, 28, 1209.	3.3	14
40	Wavefront measurements of phase plates combining a point-diffraction interferometer and a Hartmann-Shack sensor. <i>Applied Optics</i> , 2010, 49, 450.	2.1	14
41	Polarimetric high-resolution confocal scanning laser ophthalmoscope. <i>Vision Research</i> , 2005, 45, 3526-3534.	1.4	13
42	Enhancement of confocal microscopy images using Mueller's matrix polarimetry. <i>Journal of Microscopy</i> , 2009, 235, 84-93.	1.8	13
43	Multiphoton Microscopy of Oral Tissues: Review. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	13
44	Scattering and Depolarization in a Polymer Dispersed Liquid Crystal Cell. <i>Ferroelectrics</i> , 2008, 370, 18-28.	0.6	12
45	Femtosecond infrared intrastromal ablation and backscattering-mode adaptive-optics multiphoton microscopy in chicken corneas. <i>Biomedical Optics Express</i> , 2011, 2, 2950.	2.9	12
46	Impact of scatter on double-pass image quality and contrast sensitivity measured with a single instrument. <i>Biomedical Optics Express</i> , 2015, 6, 4841.	2.9	12
47	Second-harmonic generation microscopy of photocurable polymer intrastromal implants in ex-vivo corneas. <i>Biomedical Optics Express</i> , 2015, 6, 2211.	2.9	12
48	Polarization response of second-harmonic images for different collagen spatial distributions. <i>Journal of Biomedical Optics</i> , 2016, 21, 066015.	2.6	12
49	Second Harmonic Generation Microscopy: A Tool for Quantitative Analysis of Tissues. , 0, , .		11
50	Relationship between wave aberrations and histological features in ex vivo porcine crystalline lenses. <i>Journal of Biomedical Optics</i> , 2010, 15, 055001.	2.6	10
51	Wavefront retrieval of amplified femtosecond beams by second-harmonic generation. <i>Optics Express</i> , 2011, 19, 22851.	3.4	10
52	Enhancement of filamentation postcompression by astigmatic focusing. <i>Optics Letters</i> , 2011, 36, 3867.	3.3	10
53	Objective analysis of collagen organization in thyroid nodule capsules using second harmonic generation microscopy images and the Hough transform. <i>Applied Optics</i> , 2020, 59, 6925.	1.8	10
54	Polarimetry in the human eye using an imaging linear polariscope. <i>Journal of Optics</i> , 2002, 4, 553-561.	1.5	9

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55	Transmission imaging polarimetry for a linear birefringent medium using a carrier fringe method. Applied Optics, 2006, 45, 5489.	2.1	9
56	Nonlinear registration for scanned retinal images: application to ocular polarimetry. Applied Optics, 2008, 47, 5341.	2.1	9
57	Average double-pass ocular diattenuation using foveal fixation. Journal of Modern Optics, 2008, 55, 849-859.	1.3	9
58	Comparison of second harmonic microscopy images of collagen-based ocular tissues with 800 and 1045 nm. Biomedical Optics Express, 2017, 8, 5065.	2.9	8
59	Galvanic current activates the NLRP3 inflammasome to promote Type I collagen production in tendon. ELife, 2022, 11, .	6.0	8
60	Improved multiphoton imaging in biological samples by using variable pulse compression and wavefront assessment. Optics Communications, 2018, 422, 44-51.	2.1	7
61	Corneal polarimetry after LASIK refractive surgery. Journal of Biomedical Optics, 2006, 11, 014001.	2.6	6
62	Purkinje imaging system to measure anterior segment scattering in the human eye. Optics Letters, 2007, 32, 3447.	3.3	6
63	Combined effect of wavelength and polarization in double-pass retinal images in the human eye. Vision Research, 2010, 50, 2439-2444.	1.4	6
64	Perspectives on combining Nonlinear Laser Scanning Microscopy and Bag-of-Features data classification strategies for automated disease diagnostics. Optical and Quantum Electronics, 2016, 48, 1.	3.3	5
65	Arrangement of the photoreceptor mosaic in a diabetic rat model imaged with multiphoton microscopy. Biomedical Optics Express, 2020, 11, 4901.	2.9	5
66	Depolarization properties of the optic nerve head: the effect of age. Ophthalmic and Physiological Optics, 2009, 29, 247-255.	2.0	4
67	Retinal cell imaging in myopic chickens using adaptive optics multiphoton microscopy. Biomedical Optics Express, 2014, 5, 664.	2.9	4
68	Enhancement of second harmonic microscopy images in collagen-based thick samples using radially polarized laser beams. Optics Communications, 2021, 499, 127273.	2.1	4
69	Tear-film dynamics by combining double-pass images, pupil retro-illumination, and contrast sensitivity. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, B138.	1.5	4
70	Analysis of the central corneal birefringence with double-pass polarimetric images. Journal of Modern Optics, 2011, 58, 1864-1870.	1.3	3
71	Assessment of the corneal collagen organization after chemical burn using second harmonic generation microscopy. Biomedical Optics Express, 2021, 12, 756.	2.9	3
72	Retinal and Choroidal Thickness in Myopic Young Adults. Photonics, 2022, 9, 328.	2.0	3

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73	Novel Scanning Characterization Approaches for the Accurate Understanding and Successful Treatment of Oral and Maxillofacial Pathologies. Scanning, 2020, 2020, 1-2.	1.5	2
74	Visual Adaptation to Scattering in Myopes. Photonics, 2021, 8, 274.	2.0	2
75	Enhanced confocal microscopy and ophthalmoscopy with polarization imaging. , 2005, 5969, 611.		1
76	Passive and active light scattering obstacles. , 2005, 9664, 54.		1
77	Comparing the performance of a femto fiber-based laser and a Ti:sapphire used for multiphoton microscopy applications. Applied Optics, 2019, 58, 3830.	1.8	1
78	Improving Multiphoton Microscopy by Combining Spherical Aberration Patterns and Variable Axicons. Photonics, 2021, 8, 573.	2.0	1
79	Aberration Structure of the Human Eye. , 2005, , 31-61.		0
80	Spatial and temporal control of laser beams for biomedical multiphoton imaging. , 2016, , .		0
81	Analysis of the Ocular Refractive State in Fighting Bulls: Astigmatism Prevalence. BioMed Research International, 2017, 2017, 1-7.	1.9	0
82	Which Information Can Be Obtained from Collagen-Based Tissues Imaged with Polarization-Sensitive Second Harmonic Microscopy?. , 2018, , .		0
83	Adaptive Optics in Multiphoton Microscopy. Progress in Optical Science and Photonics, 2019, , 277-294.	0.5	0
84	Corneal Structure Assessed with Adaptive Optics Second-Harmonic Generation Imaging. , 2012, , .		0
85	28. Polarization properties. , 2016, , 413-430.		0
86	In vivo multiphoton imaging of the human ocular anterior segment. , 2021, , .		0
87	Multiphoton image enhancement with variable squared cubic phase masks. , 2021, , .		0