

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	Galvanic current activates the NLRP3 inflammasome to promote Type I collagen production in tendon. <i>ELife</i> , 2022, 11, .	6.0	8
2	Retinal and Choroidal Thickness in Myopic Young Adults. <i>Photonics</i> , 2022, 9, 328.	2.0	3
3	Assessment of the corneal collagen organization after chemical burn using second harmonic generation microscopy. <i>Biomedical Optics Express</i> , 2021, 12, 756.	2.9	3
4	Visual Adaptation to Scattering in Myopes. <i>Photonics</i> , 2021, 8, 274.	2.0	2
5	Enhancement of second harmonic microscopy images in collagen-based thick samples using radially polarized laser beams. <i>Optics Communications</i> , 2021, 499, 127273.	2.1	4
6	In vivo multiphoton imaging of the human ocular anterior segment. , 2021, , .		0
7	Multiphoton image enhancement with variable squared cubic phase masks. , 2021, , .		0
8	Improving Multiphoton Microscopy by Combining Spherical Aberration Patterns and Variable Axicons. <i>Photonics</i> , 2021, 8, 573.	2.0	1
9	Fluorescent bicolour sensor for low-background neutrinoless double $\hat{1}^2$ decay experiments. <i>Nature</i> , 2020, 583, 48-54.	27.8	23
10	Multiphoton Microscopy of Oral Tissues: Review. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	13
11	Novel Scanning Characterization Approaches for the Accurate Understanding and Successful Treatment of Oral and Maxillofacial Pathologies. <i>Scanning</i> , 2020, 2020, 1-2.	1.5	2
12	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
13	Arrangement of the photoreceptor mosaic in a diabetic rat model imaged with multiphoton microscopy. <i>Biomedical Optics Express</i> , 2020, 11, 4901.	2.9	5
14	Adaptive Optics in Multiphoton Microscopy. <i>Progress in Optical Science and Photonics</i> , 2019, , 277-294.	0.5	0
15	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
16	In vivo two-photon microscopy of the human eye. <i>Scientific Reports</i> , 2019, 9, 10121.	3.3	33
17	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
18	Tear-film dynamics by combining double-pass images, pupil retro-illumination, and contrast sensitivity. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, B138.	1.5	4

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19	Comparing the performance of a femto fiber-based laser and a Ti:sapphire used for multiphoton microscopy applications. <i>Applied Optics</i> , 2019, 58, 3830.	1.8	1
20	Improved multiphoton imaging in biological samples by using variable pulse compression and wavefront assessment. <i>Optics Communications</i> , 2018, 422, 44-51.	2.1	7
21	Which Information Can Be Obtained from Collagen-Based Tissues Imaged with Polarization-Sensitive Second Harmonic Microscopy?. , 2018, , .		0
22	Wavefront correction in two-photon microscopy with a multi-actuator adaptive lens. <i>Optics Express</i> , 2018, 26, 14278.	3.4	21
23	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
24	A Study on Image Quality in Polarization-Resolved Second Harmonic Generation Microscopy. <i>Scientific Reports</i> , 2017, 7, 15476.	3.3	24
25	Comparison of second harmonic microscopy images of collagen-based ocular tissues with 800 and 1045 nm. <i>Biomedical Optics Express</i> , 2017, 8, 5065.	2.9	8
26	Analysis of the Ocular Refractive State in Fighting Bulls: Astigmatism Prevalence. <i>BioMed Research International</i> , 2017, 2017, 1-7.	1.9	0
27	Performance evaluation of a sensorless adaptive optics multiphoton microscope. <i>Journal of Microscopy</i> , 2016, 261, 249-258.	1.8	30
28	Perspectives on combining Nonlinear Laser Scanning Microscopy and Bag-of-Features data classification strategies for automated disease diagnostics. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	5
29	Spacial and temporal control of laser beams for biomedical multiphoton imaging. , 2016, , .		0
30	Polarization response of second-harmonic images for different collagen spatial distributions. <i>Journal of Biomedical Optics</i> , 2016, 21, 066015.	2.6	12
31	28. Polarization properties. , 2016, , 413-430.		0
32	Analysis and quantification of collagen organization with the structure tensor in second harmonic microscopy images of ocular tissues. <i>Applied Optics</i> , 2015, 54, 9848.	2.1	47
33	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
34	Second-harmonic generation microscopy of photocurable polymer intrastromal implants in ex-vivo corneas. <i>Biomedical Optics Express</i> , 2015, 6, 2211.	2.9	12
35	Polarization dependence of aligned collagen tissues imaged with second harmonic generation microscopy. <i>Journal of Biomedical Optics</i> , 2015, 20, 086001.	2.6	22
36	Retinal cell imaging in myopic chickens using adaptive optics multiphoton microscopy. <i>Biomedical Optics Express</i> , 2014, 5, 664.	2.9	4

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37	Analysis of spatial lamellar distribution from adaptive-optics second harmonic generation corneal images. Biomedical Optics Express, 2013, 4, 1006.	2.9	17
38	Multiphoton imaging microscopy at deeper layers with adaptive optics control of spherical aberration. Journal of Biomedical Optics, 2013, 19, 011007.	2.6	15
39	Second harmonic generation signal in collagen fibers: role of polarization, numerical aperture, and wavelength. Journal of Biomedical Optics, 2012, 17, 045005.	2.6	16
40	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
41	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
42	Corneal Structure Assessed with Adaptive Optics Second-Harmonic Generation Imaging. , 2012, , .		0
43	Analysis of the chicken retina with an adaptive optics multiphoton microscope. Biomedical Optics Express, 2011, 2, 1637.	2.9	25
44	Femtosecond infrared intrastromal ablation and backscattering-mode adaptive-optics multiphoton microscopy in chicken corneas. Biomedical Optics Express, 2011, 2, 2950.	2.9	12
45	Wavefront retrieval of amplified femtosecond beams by second-harmonic generation. Optics Express, 2011, 19, 22851.	3.4	10
46	Enhancement of filamentation postcompression by astigmatic focusing. Optics Letters, 2011, 36, 3867.	3.3	10
47	Analysis of Corneal Stroma Organization With Wavefront Optimized Nonlinear Microscopy. Cornea, 2011, 30, 692-701.	1.7	59
48	Multiphoton Microscopy of Ex Vivo Corneas after Collagen Cross-Linking. , 2011, 52, 5325.		71
49	Analysis of the central corneal birefringence with double-pass polarimetric images. Journal of Modern Optics, 2011, 58, 1864-1870.	1.3	3
50	Combined effect of wavelength and polarization in double-pass retinal images in the human eye. Vision Research, 2010, 50, 2439-2444.	1.4	6
51	Relationship between wave aberrations and histological features in ex vivo porcine crystalline lenses. Journal of Biomedical Optics, 2010, 15, 055001.	2.6	10
52	Wavefront optimized nonlinear microscopy of ex vivo human retinas. Journal of Biomedical Optics, 2010, 15, 026007.	2.6	35
53	Adaptive optics multiphoton microscopy to study ex vivo ocular tissues. Journal of Biomedical Optics, 2010, 15, 066004.	2.6	44
54	Wavefront measurements of phase plates combining a point-diffraction interferometer and a Hartmann-Shack sensor. Applied Optics, 2010, 49, 450.	2.1	14

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55	Enhancement of confocal microscopy images using Mueller's matrix polarimetry. Journal of Microscopy, 2009, 235, 84-93.	1.8	13
56	Depolarization properties of the optic nerve head: the effect of age. Ophthalmic and Physiological Optics, 2009, 29, 247-255.	2.0	4
57	Temporal wavefront stability of an ultrafast high-power laser beam. Applied Optics, 2009, 48, 770.	2.1	20
58	Nonlinear registration for scanned retinal images: application to ocular polarimetry. Applied Optics, 2008, 47, 5341.	2.1	9
59	Average double-pass ocular diattenuation using foveal fixation. Journal of Modern Optics, 2008, 55, 849-859.	1.3	9
60	Scattering and Depolarization in a Polymer Dispersed Liquid Crystal Cell. Ferroelectrics, 2008, 370, 18-28.	0.6	12
61	Purkinje imaging system to measure anterior segment scattering in the human eye. Optics Letters, 2007, 32, 3447.	3.3	6
62	Characterizing image quality in a scanning laser ophthalmoscope with differing pinholes and induced scattered light. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1284.	1.5	18
63	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
64	Transmission imaging polarimetry for a linear birefringent medium using a carrier fringe method. Applied Optics, 2006, 45, 5489.	2.1	9
65	Corneal polarimetry after LASIK refractive surgery. Journal of Biomedical Optics, 2006, 11, 014001.	2.6	6
66	Aberration Structure of the Human Eye. , 2005, , 31-61.		0
67	Enhanced confocal microscopy and ophthalmoscopy with polarization imaging. , 2005, 5969, 611.		1
68	Passive and active light scattering obstacles. , 2005, 9664, 54.		1
69	Polarimetric high-resolution confocal scanning laser ophthalmoscope. Vision Research, 2005, 45, 3526-3534.	1.4	13
70	The influence of depolarization and corneal birefringence on ocular polarization. Journal of Optics, 2004, 6, S91-S99.	1.5	20
71	Degree of polarization as an objective method of estimating scattering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 1316.	1.5	23
72	Polarization properties of the <i>in vitro</i> old human crystalline lens. Ophthalmic and Physiological Optics, 2003, 23, 109-118.	2.0	39

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73	Aberro-pola rscope for the human eye. Optics Letters, 2003, 28, 1209.	3.3	14
74	Antixenosis and Antibiosis of Common Beans to Thrips palmi Karny (Thysanoptera: Thripidae). Journal of Economic Entomology, 2003, 96, 1577-1584.	1.8	25
75	Optical Quality of the Eye with the Artisan Phakic Lens for the Correction of High Myopia. Optometry and Vision Science, 2003, 80, 167-174.	1.2	24
76	Monochromatic Aberrations as a Function of Age, from Childhood to Advanced Age. , 2003, 44, 5438.		127
77	Polarimetry in the human eye using an imaging linear polariscope. Journal of Optics, 2002, 4, 553-561.	1.5	9
78	Confocal scanning laser ophthalmoscopy improvement by use of Mueller-matrix polarimetry. Optics Letters, 2002, 27, 830.	3.3	56
79	Measurements of the corneal birefringence with a liquid-crystal imaging polariscope. Applied Optics, 2002, 41, 116.	2.1	64
80	Polarization and retinal image quality estimates in the human eye. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 489.	1.5	25
81	Depolarization effects in the human eye. Vision Research, 2001, 41, 2687-2696.	1.4	28
82	Spatially resolved polarization properties for <i>in vitro</i> corneas. Ophthalmic and Physiological Optics, 2001, 21, 384-392.	2.0	66
83	Indices of linear polarization for an optical system. Journal of Optics, 2001, 3, 470-476.	1.5	23
84	Measurement of parameters of polarization in the living human eye using imaging polarimetry. Vision Research, 2000, 40, 3791-3799.	1.4	51
85	Polarimetry using liquid-crystal variable retarders: theory and calibration. Journal of Optics, 2000, 2, 216-222.	1.5	123
86	Double-pass imaging polarimetry in the human eye. Optics Letters, 1999, 24, 64.	3.3	101
87	Second Harmonic Generation Microscopy: A Tool for Quantitative Analysis of Tissues. , 0, , .		11