

Meritxell Vilaseca

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,212
citations

430754

18
h-index

395590

33
g-index

72
all docs

72
docs citations

72
times ranked

1003
citing authors

#	ARTICLE	IF	CITATIONS
1	Transmittance measurement of the in vivo human eye with a double-pass system. <i>Optica Applicata</i> , 2021, 51, .	0.1	0
2	Optical Technologies for the Improvement of Skin Cancer Diagnosis: A Review. <i>Sensors</i> , 2021, 21, 252.	2.1	44
3	Spectroscopic Evaluation of Red Blood Cells of Thalassemia Patients with Confocal Microscopy: A Pilot Study. <i>Sensors</i> , 2020, 20, 4039.	2.1	8
4	Texture Evaluation of Automotive Coatings by Means of a Gonio-Hyperspectral Imaging System Based on Light-Emitting Diodes. <i>Coatings</i> , 2020, 10, 320.	1.2	2
5	Experimental characterization of the speckle pattern at the output of a multimode optical fiber. <i>Optics Express</i> , 2019, 27, 27737.	1.7	6
6	Quantification of forward scattering based on the analysis of double-pass images in the frequency domain. <i>Acta Ophthalmologica</i> , 2019, 97, e1019-e1026.	0.6	3
7	Graininess characterization by multidimensional scaling. <i>Journal of Modern Optics</i> , 2019, 66, 929-938.	0.6	4
8	Speckle reduction in double-pass retinal images. <i>Scientific Reports</i> , 2019, 9, 4469.	1.6	7
9	Method to reduce undesired multiple fundus scattering effects in double-pass systems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 918.	0.8	2
10	Polarized Multispectral Imaging for the Diagnosis of Skin Cancer. <i>Color and Imaging Conference</i> , 2019, 2019, 381-385.	0.1	2
11	Terahertz-based system for dehydration analysis of hydrogel contact lenses. <i>Optica Applicata</i> , 2019, 49, .	0.1	2
12	Characterization of speckle patterns generated by a semiconductor laser with optical feedback for speckle reduction in retinal imaging instruments. , 2019, , .		0
13	Hyperspectral eye fundus imaging with extended spectral range towards the near infrared. , 2019, , .		0
14	Study of skin cancer lesions through multispectral and 3D techniques. , 2019, , .		1
15	Fast visible and extended near-infrared multispectral fundus camera. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	8
16	Visible and Extended Near-Infrared Multispectral Imaging for Skin Cancer Diagnosis. <i>Sensors</i> , 2018, 18, 1441.	2.1	34
17	System based on the contrast of Purkinje images to measure corneal and lens scattering. <i>Biomedical Optics Express</i> , 2018, 9, 4907.	1.5	3
18	Spherical subjective refraction with a novel 3D virtual reality based system. <i>Journal of Optometry</i> , 2017, 10, 43-51.	0.7	16

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19	Multispectral imaging system based on light-emitting diodes for the detection of melanomas and basal cell carcinomas: a pilot study (erratum). <i>Journal of Biomedical Optics</i> , 2017, 22, 079801.	1.4	2
20	Multispectral imaging system based on light-emitting diodes for the detection of melanomas and basal cell carcinomas: a pilot study. <i>Journal of Biomedical Optics</i> , 2017, 22, 065006.	1.4	17
21	Comparison of the Adaptive Optics Vision Analyzer and the KRél W for measuring ocular wave aberrations. <i>Australasian journal of optometry, The</i> , 2017, 100, 26-32.	0.6	6
22	Validation of a gonio-hyperspectral imaging system based on light-emitting diodes for the spectral and colorimetric analysis of automotive coatings. <i>Applied Optics</i> , 2017, 56, 7194.	0.9	4
23	Incoherent light sources for speckle reduction in double pass ocular imaging. , 2017, , .		0
24	Visual and instrumental assessments of color differences in automotive coatings. <i>Color Research and Application</i> , 2016, 41, 384-391.	0.8	19
25	Effects of aging on optical quality and visual function. <i>Australasian journal of optometry, The</i> , 2016, 99, 518-525.	0.6	41
26	Double-pass technique and compensation-comparison method in eyes with cataract. <i>Journal of Cataract and Refractive Surgery</i> , 2016, 42, 1461-1469.	0.7	27
27	The minimum number of measurements for colour, sparkle, and graininess characterisation in gonio-apparent panels. <i>Coloration Technology</i> , 2015, 131, 303-309.	0.7	10
28	Comparing Autorefractors for Measurement of Accommodation. <i>Optometry and Vision Science</i> , 2015, 92, 1003-1011.	0.6	22
29	Assessment of multifocal contact lens over-refraction using an infrared, open-field autorefractor: A preliminary study. <i>Contact Lens and Anterior Eye</i> , 2015, 38, 322-326.	0.8	3
30	Artwork imaging from 370 to 1630 nm using a novel multispectral system based on lightémitting diodes. <i>Color Research and Application</i> , 2015, 40, 398-407.	0.8	3
31	Repeatability of Aberrometric Measurements With a New Instrument for Vision Analysis Based on Adaptive Optics. <i>Journal of Refractive Surgery</i> , 2015, 31, 188-194.	1.1	18
32	Discrimination between Surgical and Nonsurgical Nuclear Cataracts Based on ROC Analysis. <i>Current Eye Research</i> , 2014, 39, 1187-1193.	0.7	11
33	Repeatability, reproducibility, and accuracy of a novel pushbroom hyperspectral system. <i>Color Research and Application</i> , 2014, 39, 549-558.	0.8	7
34	Portable multispectral imaging system based on light-emitting diodes for spectral recovery from 370 to 1630é%é%nm. <i>Applied Optics</i> , 2014, 53, 3131.	0.9	11
35	Optical quality and intraocular scattering assessed with a double-pass system in eyes with contact lens induced corneal swelling. <i>Contact Lens and Anterior Eye</i> , 2014, 37, 278-284.	0.8	10
36	Spectral LED-Based Tuneable Light Source for the Reconstruction of CIE Standard Illuminants. <i>Lecture Notes in Computer Science</i> , 2014, , 115-123.	1.0	5

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37	Handheld 3D Scanning System for In-Vivo Imaging of Skin Cancer. , 2014, , .		4
38	Age-related changes in accommodation measured with a double-pass system. Ophthalmic and Physiological Optics, 2013, 33, 508-515.	1.0	13
39	Non-cycloplegic spherical equivalent refraction in adults: comparison of the double-pass system, retinoscopy, subjective refraction and a table-mounted autorefractor. International Journal of Ophthalmology, 2013, 6, 618-25.	0.5	6
40	Comparison between an objective and a psychophysical method for the evaluation of intraocular light scattering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1293.	0.8	15
41	Grading nuclear, cortical and posterior subcapsular cataracts using an objective scatter index measured with a double-pass system. British Journal of Ophthalmology, 2012, 96, 1204-1210.	2.1	50
42	Optical quality after myopic photorefractive keratectomy and laser in situ keratomileusis: Comparison using a double-pass system. Journal of Cataract and Refractive Surgery, 2012, 38, 16-27.	0.7	43
43	Measuring the accommodative response with a double-pass system: Comparison with the Hartmann-Shack technique. Vision Research, 2012, 62, 26-34.	0.7	10
44	Blink Rate, Blink Amplitude, and Tear Film Integrity during Dynamic Visual Display Terminal Tasks. Current Eye Research, 2011, 36, 190-197.	0.7	172
45	Task oriented visual satisfaction and wearing success with two different simultaneous vision multifocal soft contact lenses. Journal of Optometry, 2011, 4, 76-84.	0.7	19
46	Objective optical assessment of tear-film quality dynamics in normal and mildly symptomatic dry eyes. Journal of Cataract and Refractive Surgery, 2011, 37, 1481-1487.	0.7	100
47	Optical quality and intraocular scattering in a healthy young population. Australasian journal of optometry, The, 2011, 94, 223-229.	0.6	81
48	Response to the Letter to the Editor by Dr van den Berg. Australasian journal of optometry, The, 2011, 94, 393-395.	0.6	3
49	Iris color and texture: A comparative analysis of real irises, ocular prostheses, and colored contact lenses. Color Research and Application, 2011, 36, 373-382.	0.8	6
50	Luminance adaptation model for increasing the dynamic range of an imaging system based on a CCD camera. Optik, 2011, 122, 1367-1372.	1.4	4
51	Use of Light-Emitting Diodes in Multispectral Systems Design: Variability of Spectral Power Distribution According to Angle and Time of Usage. Journal of Imaging Science and Technology, 2011, 55, 050501.	0.3	2
52	Automatic multispectral ultraviolet, visible and near-infrared capturing system for the study of artwork. , 2011, , .		1
53	Influence of the Number of Samples of the Training Set on Accuracy of Color Measurement and Spectral Reconstruction. Journal of Imaging Science and Technology, 2010, 54, 30501-1-30501-10.	0.3	6
54	Intra- and Intersession Repeatability of a Double-Pass Instrument. Optometry and Vision Science, 2010, 87, 675-681.	0.6	57

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55	Temporal Stability in the Perception of Dry Eye Ocular Discomfort Symptoms. <i>Optometry and Vision Science</i> , 2010, 87, 1023-1029.	0.6	14
56	Intra- and Intersession Repeatability of a Double-Pass Instrument: Erratum. <i>Optometry and Vision Science</i> , 2010, 87, 802.	0.6	2
57	Camera-based colour measurement. , 2010, , 147-e2.		2
58	Effect of laser in situ keratomileusis on vision analyzed using preoperative optical quality. <i>Journal of Cataract and Refractive Surgery</i> , 2010, 36, 1945-1953.	0.7	29
59	Optical quality of foldable monofocal intraocular lenses before and after injection. <i>Journal of Cataract and Refractive Surgery</i> , 2009, 35, 1415-1423.	0.7	54
60	Optical Quality One Month After Verisyse and Veriflex Phakic IOL Implantation and Zeiss MEL 80 LASIK for Myopia From 5.00 to 16.50 Diopters. <i>Journal of Refractive Surgery</i> , 2009, 25, 689-698.	1.1	52
61	Characterization of the human iris spectral reflectance with a multispectral imaging system. <i>Applied Optics</i> , 2008, 47, 5622.	2.1	31
62	Stray-light correction of in-water array spectroradiometers. Effects on underwater optical measurements. , 2008, , .		4
63	Optimized algorithm for the spatial nonuniformity correction of an imaging system based on a charge-coupled device color camera. <i>Applied Optics</i> , 2007, 46, 167.	2.1	22
64	A device for the color measurement and detection of spots on the skin. <i>Skin Research and Technology</i> , 2007, 14, 070309091702006-???	0.8	15
65	Multispectral system for reflectance reconstruction in the near-infrared region. <i>Applied Optics</i> , 2006, 45, 4241.	2.1	19
66	A device for the color measurement and detection of spots on the skin. <i>Proceedings of SPIE</i> , 2006, , .	0.8	0
67	Spectral-reflectance reconstruction in the near-infrared region by use of conventional charge-coupled-device camera measurements. <i>Applied Optics</i> , 2003, 42, 1788.	2.1	3
68	Characterization of a digital camera as an absolute tristimulus colorimeter. , 2003, , .		12
69	NIR spectrophotometric system based on a conventional CCD camera. , 2003, , .		0
70	Multispectral and colour imaging systems for the detection of small vertebrate fossils: A preliminary study. <i>Palaeontologia Electronica</i> , 0, , .	0.9	0