JoaquÃ-n Campos Acosta

List of Publications by Year
in descending order

117	867	516710 16	610901 24
papers	citations	h-index	g-index

119	119	119	576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary measurement scales for sparkle and graininess. Optics Express, 2021, 29, 7589.	3.4	3
2	Visual validation of the appearance of chromatic objects rendered from spectrophotometric measurements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 328.	1.5	1
3	Primary facility for traceable measurement of the BSSRDF. Optics Express, 2021, 29, 34175.	3.4	3
4	Accurate physics-based digital reproduction of effect coatings. Optics Express, 2021, 29, 34671-34683.	3.4	0
5	Fundamental scattering quantities for the determination of reflectance and transmittance. Optics Express, 2021, 29, 219.	3.4	5
6	Angular and Spectral Bandwidth Considerations in BRDF Measurements of Interference- and Diffraction-Based Coatings. Coatings, 2020, 10, 1128.	2.6	0
7	An insight into the present capabilities of national metrology institutes for measuring sparkle. Metrologia, 2020, 57, 065029.	1.2	1
8	Accounting for polarizationâ€“related effects in the measurement of the bidirectional reflectance distribution function. Metrologia, 2020, 57, 045003.	1.2	5
9	Goniochromatic assessment of gray scales for color change. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1266.	1.5	2
10	Deviation of white diffuse reflectance standards from perfect reflecting diffuser at visible and near-infrared spectral ranges. Metrologia, 2019, 56, 055005.	1.2	5
11	Real-time accurate rendering of color and texture of car coatings. IS&T International Symposium on Electronic Imaging, 2019, 31, 76-1-76-6.	0.4	5
12	Testing irradiance and radiance methods for absolute radiation thermometry based on InGaAs detectors in the NIR at CEM/CSIC. Journal of Physics: Conference Series, 2018, 1065, 122005.	0.4	2
13	Unidimensional photocurrent model for induced-junction photodiodes. Journal of Physics: Conference Series, 2018, 972, 012015.	0.4	1
14	Principal component analysis of reference sites used for calibration and validation of Earth observation satellites. Journal of Physics: Conference Series, 2018, 972, 012004.	0.4	0
15	Measuring the Human Ultra-Weak Photon Emission Distribution Using an Electron-Multiplying, Charge-Coupled Device as a Sensor. Sensors, 2018, 18, 1152.	3.8	11
16	Index for the evaluation of the general photometric performance of photometers. Optics Express, 2018, 26, 18633.	3.4	7
17	Definition of a measurement scale of graininess from reflectance and visual measurements. Optics Express, 2018, 26, 30116.	3.4	6
18	Preliminary results of feasibility of self-calibration of silicon pn photodiodes at room temperature using temperature sensors. Optica Pura Y Aplicada, 2018, 51, 50013:1-50013:8.	0.1	1

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19	Evaluation of uncertainties for CIELAB color coordinates. Color Research and Application, 2017, 42, 564-570.	1.6	10
20	Customizing plasmonic diffraction patterns by laser interference. RSC Advances, 2017, 7, 30118-30127.	3.6	2
21	Photocatalytic behavior of colored mortars containing TiO 2 and iron oxide based pigments. Construction and Building Materials, 2017, 144, 300-310.	7.2	28
22	Performance of Different Light Sources for the Absolute Calibration of Radiation Thermometers. International Journal of Thermophysics, 2017, 38, 1.	2.1	6
23	The equilibrium liquidus temperatures of rheniumâ€“carbon, platinumâ€“carbon and cobaltâ€“carbon eutectic alloys. Metrologia, 2017, 54, 390-398.	1.2	25
24	Multilateral spectral radiance factor scale comparison. Applied Optics, 2017, 56, 1996.	2.1	5
25	Preliminary results of an analytical model to determine the internal quantum efficiency of a predictable quantum efficient detector. Optica Pura Y Aplicada, 2017, 50, 401-409.	0.1	0
26	Color characterization of coatings with diffraction pigments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1978.	1.5	11
27	Consistency analysis of multidimensional gonio-spectrophotometric measurements in interlaboratory comparisons. Metrologia, 2016, 53, 1024-1030.	1.2	1
28	Mise en pratique for the definition of the candela and associated derived units for photometric and radiometric quantities in the International System of Units (SI). Metrologia, 2016, 53, G1-G1.	1.2	10
29	Thermodynamic temperature assignment to the point of inflection of the melting curve of high-temperature fixed points. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150044.	3.4	64
30	Zernike polynomials for photometric characterization of LEDs. Journal of Optics (United Kingdom), 2016, 18, 025605.	2.2	1
31	Challenges in appearance characterization of coatings with effect pigments. , 2016, , .		1
32	SEDOPTICA Newsletters. , 2016, 49, iii-iv.		0
33	SEDOPTICA Newletters. Optica Pura Y Aplicada, 2016, 49, iii-v.	0.1	0
34	Upgrade of goniospectrophtometer GEFE for near-field scattering and fluorescence radiance measurements. Proceedings of SPIE, 2015, , .	0.8	6
35	Optical transmission properties of Pentelic and Paros marble. Applied Optics, 2015, 54, B251.	1.8	1
36	Global color estimation of special-effect coatings from measurements by commercially available portable multiangle spectrophotometers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1.	1.5	12

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37	Visibility of sparkle in metallic paints. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 921.	1.5	16
38	"Multidimensional reflectometry for industry" (xD-Reflect) an European research project. Proceedings of SPIE, 2014, , .	0.8	6
39	Towards a better understanding of the color shift of effect coatings by densely sampled spectral BRDF measurement. Proceedings of SPIE, 2014, , .	0.8	3
40	Color representation and interpretation of special effect coatings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 436.	1.5	21
41	Bidirectional reflectance distribution function of diffuse reflectance standards around the retro-reflection direction. Metrologia, 2014, 51, 148-153.	1.2	2
42	Spatial characterization of cameras for low-uncertainty radiometric measurements. Metrologia, 2014, 51, 316-325.	1.2	9
43	Monochromator-Based Absolute Calibration of a Standard Radiation Thermometer. International Journal of Thermophysics, 2014, 35, 493-503.	2.1	6
44	Reflectance properties analysis of mineral based mortars for renders: Research of their energy performance. Energy and Buildings, 2014, 76, 615-621.	6.7	5
45	Angular distribution of the averaged luminous intensity of low power LEDs transfer standards. Proceedings of SPIE, 2013, , .	0.8	1
46	A single analytical model for sparkle and graininess patterns in texture of effect coatings. Optics Express, 2013, 21, 26812.	3.4	20
47	Spectral BRDF-based determination of proper measurement geometries to characterize color shift of special effect coatings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 206.	1.5	24
48	Variables separation of the spectral BRDF for better understanding color variation in special effect pigment coatings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 842.	1.5	18
49	Spectral and geometrical variation of the bidirectional reflectance distribution function of diffuse reflectance standards. Applied Optics, 2012, 51, 8535.	1.8	26
50	Automatic gonio-spectrophotometer for the absolute measurement of the spectral BRDF at in-out-of-plane and retroreflection geometries. Metrologia, 2012, 49, 213-223.	1.2	59
51	Triple product acousto-optical processor for the astrophysical applications. , 2012, , .		0
52	Arrangement of an advanced acousto-optical processor for modeling the triple correlations of low-power optical pulse trains. Proceedings of SPIE, 2012, , .	0.8	0
53	Angular and spectral radiant intensity distribution of high brightness white LEDs. Optica Pura Y Aplicada, 2012, 45, 131-136.	0.1	0
54	Principal components analysis on the spectral bidirectional reflectance distribution function of ceramic colour standards. Optics Express, 2011, 19, 19199.	3.4	12

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55	Deconvolution of non-zero solid angles effect in Bidirectional Scattering Distribution Function measurements. Proceedings of SPIE, 2011, , .	0.8	2
56	Qualitative analysis of ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor heterolasers with an external fiber cavity. , 2011, , .		0
57	Performing the triple auto-correlation of picosecond optical pulse train with a photo electromotive force detector. Proceedings of SPIE, 2011, , .	0.8	1
58	Shaping triple correlations of low-power optical pulse trains and their experimental modeling via acousto-optic technique. , 2011, , .		0
59	Characterization of the train-average timeâ€“frequency parameters inherent in the low-power picosecond optical pulses generated by the actively mode-locked semiconductor laser with an external single-mode fiber cavity. Optik, 2011, 122, 136-141.	2.9	3
60	Applying the joint Wigner time-frequency distribution to characterization of ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor laser with an external single-mode fiber cavity. , 2010, , .		1
61	Characterizing the parameters of ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor laser with an external fiber cavity. , 2010, , .		0
62	Electron-multiplying CCD astronomical photometry. , 2010, , .		2
63	Analysis of originating ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor heterolasers with an external fiber cavity. , 2010, , .		0
64	Practical aspects of applying triple correlations to the characterization of high-frequency repetition trains of picosecond optical pulses. , 2010, , .		0
65	Determining the timeâ€“frequency parameters of low-power bright picosecond optical pulses by using the interferometric technique. Optik, 2010, 121, 426-434.	2.9	3
66	How the method of choice to assess liquid crystal tunable filtersâ€™ bandpass function impacts the spectroradiometric measurements performed with them. Journal of Optics (United Kingdom), 2010, 12, 015707.	2.2	3
67	An absolute radiometer based on InP photodiodes. , 2010, , .		1
68	Study of some optoelectronics characteristics of InGaAs/InP photodetectors. Proceedings of SPIE, 2010, , .	0.8	0
69	Colorimetric and spectral evaluation of the optical anisotropy of metallic and pearlescent samples. Journal of Modern Optics, 2009, 56, 1457-1465.	1.3	16
70	Assessment of a pixel-to-pixel metrological approach to the measurement of astronomical magnitudes. Metrologia, 2009, 46, S228-S232.	1.2	0
71	Characterization of the time-frequency parameters inherent in the radiation of semiconductor heterolasers using interferometric technique. Proceedings of SPIE, 2009, , .	0.8	0
72	Initial stage of the active mode-locking in semiconductor heterolasers. Proceedings of SPIE, 2009, , .	0.8	0

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73	Differences of silicon photodiode spectral reflectance among the same batch. Optoelectronics Letters, 2008, 4, 347-350.	0.8	2
74	Measuring the reflectance and the internal quantum efficiency of silicon and InGaAs/InP photodiodes in near infrared range. , 2008, , .		1
75	Applying the triple correlation functions to characterizing high-frequency repetition trains of picosecond optical pulses. Proceedings of SPIE, 2008, , .	0.8	0
76	A new technique of measuring low-power picosecond optical pulse trains. , 2007, , .		0
77	Determination of the action spectrum of the blue-light hazard for different intraocular lenses. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1545.	1.5	12
78	Principal components analysis of the photoresponse nonuniformity of a matrix detector. Applied Optics, 2007, 46, 9.	2.1	13
79	Improvements for determining the modulation transfer function of charge-coupled devices by the speckle method. Optics Express, 2006, 14, 5928.	3.4	26
80	Correction of photoresponse nonuniformity for matrix detectors based on prior compensation for their nonlinear behavior. Applied Optics, 2006, 45, 2422.	2.1	22
81	Apparent violation of the radiant exposure reciprocity law in interline CCDs. Applied Optics, 2006, 45, 3991.	2.1	15
82	Experimental assessment of relative temporal fluctuation of CCD pixels. EPJ Applied Physics, 2006, 33, 225-228.	0.7	2
83	Radiometric characteristics of new diamond PIN photodiodes. Measurement Science and Technology, 2006, 17, 913-917.	2.6	38
84	Low-uncertainty absolute radiometric calibration of a CCD. Metrologia, 2006, 43, S17-S21.	1.2	20
85	Key Comparison EUROMET.PR-K3.b.1: Bilateral comparison on illuminance responsivity between IFA-CSIC/Spain and UME/Turkey. Metrologia, 2005, 42, 02002-02002.	1.2	5
86	Intrinsic Wavelength Standard Absorption Bands in Holmium Oxide Solution for UV/visible Molecular Absorption Spectrophotometry. Journal of Physical and Chemical Reference Data, 2005, 34, 41-56.	4.2	24
87	New model for the internal quantum efficiency of photodiodes based on photocurrent analysis. Applied Optics, 2005, 44, 208.	2.1	24
88	Instrumental Factors Influencing Absorption Measurements for Fluid Food Color Determination. Journal of AOAC INTERNATIONAL, 2004, 87, 632-638.	1.5	4
89	Variation of the luminous efficacy of direct, global and diffuse solar radiation with atmospheric parameters. Lighting Research and Technology, 2004, 36, 31-41.	2.7	5
90	Spectrophotometric error in colour coordinates introduced by fluorescence of white calibration tile. Color Research and Application, 2004, 29, 111-114.	1.6	7

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91	Spectral responsivity scale in the visible range based on single silicon photodiodes. Metrologia, 2003, 40, S181-S184.	1.2	11
92	Anomalous non-linear behaviour of InGaAs photodiodes with overfilled illumination. Metrologia, 2003, 40, S150-S153.	1.2	24
93	An analytical method for estimating correlated colour temperature uncertainty. Metrologia, 2002, 39, 531-536.	1.2	6
94	Tristimulus weight functions to calculate musts color coordinates from 10-nm bandwidth spectral data. , 2002, , .		0
95	Spectral responsivity uncertainty of silicon photodiodes due to calibration spectral bandwidth. Measurement Science and Technology, 2001, 12, 1926-1931.	2.6	8
96	Radiometric calibration of charge-coupled-device video cameras. Metrologia, 2000, 37, 459-464.	1.2	11
97	Absolute power measurements at wavelengths of 1300 nm and 1550 nm with a cryogenic radiometer and a tuneable laser diode. Metrologia, 2000, 37, 519-522.	1.2	6
98	Comparison between absolute thermal radiometers at wavelengths of 1300 nm and 1550 nm. Metrologia, 2000, 37, 543-546.	1.2	7
99	NPL-CSIC comparison of regular reflectance measurements. Metrologia, 2000, 37, 323-327.	1.2	3
100	Ultraviolet calibration of detectors with respect to a cryogenic radiometer. Metrologia, 2000, 37, 555-558.	1.2	3
101	An Optical Method to Measure Time Response in Scanning Spectrophotometers. Applied Optics, 2000, 39, 6524.	2.1	0
102	Calculation of the Field-intensity Pattern in Optical Planar Waveguide by the Finite-differences Time-domain Method. Journal of Optical Communications, 1999, 20, .	4.7	2
103	Reflectance dependencies of silicon trap detectors. Metrologia, 1998, 35, 455-460.	1.2	7
104	Measurement of standard aluminium mirrors, reflectance versus light polarization. Measurement Science and Technology, 1998, 9, 256-260.	2.6	6
105	Calibration of near-infrared transfer standards at optical-fibre communication wavelengths by direct comparison with a cryogenic radiometer. Metrologia, 1998, 35, 273-277.	1.2	16
106	<title>Anomalous performance of a QED-100 detector</title>. , 1995, , .		0
107	Realization of the candela from a partial filteringV(Â) detector traceable to a cryogenic radiometer. Metrologia, 1995, 32, 675-679.	1.2	3
108	Spectral Responsivity Calibration of Ge Photodiodes with Respect to an Electrically-calibrated Pyroelectric Radiometer and to a Black-body Source. Metrologia, 1991, 28, 141-144.	1.2	2

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109	Realization of an infrared spectroradiometer. Applied Optics, 1991, 30, 1279.	2.1	2
110	<title>Germanium photodiodes calibration as standards of optical fiber systems power measurements</title>. , 1991, 1504, 66.		1
111	<title>Interferometric system for the inspection and measurement of the quality of optical fiber ends</title>. , 1991, 1504, 281.		0
112	Absolute spectral irradiance scale in the 700â€“2400 nm spectral range. Applied Optics, 1990, 29, 3530.	2.1	10
113	Response uniformity of silicon photodiodes. Applied Optics, 1988, 27, 5154.	2.1	7
114	The Applications Of Laser Beams To Absolute Photodetector Calibration. Proceedings of SPIE, 1988, , .	0.8	0
115	Description of precision colorimeter. Journal of Physics E: Scientific Instruments, 1987, 20, 882-884.	0.7	2
116	Photodiodes as Optical Radiation Measurement Standards. , 0, , .		1
117	Methodologies and uncertainty estimates for T â€“ T 90 measurements over the temperature range from 430 K to 1358 K under the auspices of the EMPIR InK2 project. Measurement Science and Technology, 0, , .	2.6	6