

# Joaquín Campos Acosta

## List of Publications by Year in descending order

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117  
papers

867  
citations

516710

16  
h-index

610901

24  
g-index

119  
all docs

119  
docs citations

119  
times ranked

576  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic temperature assignment to the point of inflection of the melting curve of high-temperature fixed points. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150044.	3.4	64
2	Automatic gonio-spectrophotometer for the absolute measurement of the spectral BRDF at in-out-of-plane and retroreflection geometries. <i>Metrologia</i> , 2012, 49, 213-223.	1.2	59
3	Radiometric characteristics of new diamond PIN photodiodes. <i>Measurement Science and Technology</i> , 2006, 17, 913-917.	2.6	38
4	Photocatalytic behavior of colored mortars containing TiO <sub>2</sub> and iron oxide based pigments. <i>Construction and Building Materials</i> , 2017, 144, 300-310.	7.2	28
5	Improvements for determining the modulation transfer function of charge-coupled devices by the speckle method. <i>Optics Express</i> , 2006, 14, 5928.	3.4	26
6	Spectral and geometrical variation of the bidirectional reflectance distribution function of diffuse reflectance standards. <i>Applied Optics</i> , 2012, 51, 8535.	1.8	26
7	The equilibrium liquidus temperatures of rhenium-carbon, platinum-carbon and cobalt-carbon eutectic alloys. <i>Metrologia</i> , 2017, 54, 390-398.	1.2	25
8	Anomalous non-linear behaviour of InGaAs photodiodes with overfilled illumination. <i>Metrologia</i> , 2003, 40, S150-S153.	1.2	24
9	Intrinsic Wavelength Standard Absorption Bands in Holmium Oxide Solution for UV/visible Molecular Absorption Spectrophotometry. <i>Journal of Physical and Chemical Reference Data</i> , 2005, 34, 41-56.	4.2	24
10	New model for the internal quantum efficiency of photodiodes based on photocurrent analysis. <i>Applied Optics</i> , 2005, 44, 208.	2.1	24
11	Spectral BRDF-based determination of proper measurement geometries to characterize color shift of special effect coatings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 206.	1.5	24
12	Correction of photoresponse nonuniformity for matrix detectors based on prior compensation for their nonlinear behavior. <i>Applied Optics</i> , 2006, 45, 2422.	2.1	22
13	Color representation and interpretation of special effect coatings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 436.	1.5	21
14	Low-uncertainty absolute radiometric calibration of a CCD. <i>Metrologia</i> , 2006, 43, S17-S21.	1.2	20
15	A single analytical model for sparkle and graininess patterns in texture of effect coatings. <i>Optics Express</i> , 2013, 21, 26812.	3.4	20
16	Variables separation of the spectral BRDF for better understanding color variation in special effect pigment coatings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 842.	1.5	18
17	Calibration of near-infrared transfer standards at optical-fibre communication wavelengths by direct comparison with a cryogenic radiometer. <i>Metrologia</i> , 1998, 35, 273-277.	1.2	16
18	Colorimetric and spectral evaluation of the optical anisotropy of metallic and pearlescent samples. <i>Journal of Modern Optics</i> , 2009, 56, 1457-1465.	1.3	16

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19	Visibility of sparkle in metallic paints. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 921.	1.5	16
20	Apparent violation of the radiant exposure reciprocity law in interline CCDs. <i>Applied Optics</i> , 2006, 45, 3991.	2.1	15
21	Principal components analysis of the photoresponse nonuniformity of a matrix detector. <i>Applied Optics</i> , 2007, 46, 9.	2.1	13
22	Determination of the action spectrum of the blue-light hazard for different intraocular lenses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 1545.	1.5	12
23	Principal components analysis on the spectral bidirectional reflectance distribution function of ceramic colour standards. <i>Optics Express</i> , 2011, 19, 19199.	3.4	12
24	Global color estimation of special-effect coatings from measurements by commercially available portable multiangle spectrophotometers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 1.	1.5	12
25	Radiometric calibration of charge-coupled-device video cameras. <i>Metrologia</i> , 2000, 37, 459-464.	1.2	11
26	Spectral responsivity scale in the visible range based on single silicon photodiodes. <i>Metrologia</i> , 2003, 40, S181-S184.	1.2	11
27	Color characterization of coatings with diffraction pigments. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 1978.	1.5	11
28	Measuring the Human Ultra-Weak Photon Emission Distribution Using an Electron-Multiplying, Charge-Coupled Device as a Sensor. <i>Sensors</i> , 2018, 18, 1152.	3.8	11
29	Absolute spectral irradiance scale in the 700–2400 nm spectral range. <i>Applied Optics</i> , 1990, 29, 3530.	2.1	10
30	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). <i>Metrologia</i> , 2016, 53, G1-G1.	1.2	10
31	Evaluation of uncertainties for CIELAB color coordinates. <i>Color Research and Application</i> , 2017, 42, 564-570.	1.6	10
32	Spatial characterization of cameras for low-uncertainty radiometric measurements. <i>Metrologia</i> , 2014, 51, 316-325.	1.2	9
33	Spectral responsivity uncertainty of silicon photodiodes due to calibration spectral bandwidth. <i>Measurement Science and Technology</i> , 2001, 12, 1926-1931.	2.6	8
34	Response uniformity of silicon photodiodes. <i>Applied Optics</i> , 1988, 27, 5154.	2.1	7
35	Reflectance dependencies of silicon trap detectors. <i>Metrologia</i> , 1998, 35, 455-460.	1.2	7
36	Comparison between absolute thermal radiometers at wavelengths of 1300 nm and 1550 nm. <i>Metrologia</i> , 2000, 37, 543-546.	1.2	7

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37	Spectrophotometric error in colour coordinates introduced by fluorescence of white calibration tile. <i>Color Research and Application</i> , 2004, 29, 111-114.	1.6	7
38	Index for the evaluation of the general photometric performance of photometers. <i>Optics Express</i> , 2018, 26, 18633.	3.4	7
39	Measurement of standard aluminium mirrors, reflectance versus light polarization. <i>Measurement Science and Technology</i> , 1998, 9, 256-260.	2.6	6
40	Absolute power measurements at wavelengths of 1300 nm and 1550 nm with a cryogenic radiometer and a tuneable laser diode. <i>Metrologia</i> , 2000, 37, 519-522.	1.2	6
41	An analytical method for estimating correlated colour temperature uncertainty. <i>Metrologia</i> , 2002, 39, 531-536.	1.2	6
42	"Multidimensional reflectometry for industry" (xD-Reflect) an European research project. <i>Proceedings of SPIE</i> , 2014, , .	0.8	6
43	Monochromator-Based Absolute Calibration of a Standard Radiation Thermometer. <i>International Journal of Thermophysics</i> , 2014, 35, 493-503.	2.1	6
44	Upgrade of goniospectrophotometer GEFE for near-field scattering and fluorescence radiance measurements. <i>Proceedings of SPIE</i> , 2015, , .	0.8	6
45	Performance of Different Light Sources for the Absolute Calibration of Radiation Thermometers. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	2.1	6
46	Methodologies and uncertainty estimates for $T \approx T_{90}$ measurements over the temperature range from 430 K to 1358 K under the auspices of the EMPIR InK2 project. <i>Measurement Science and Technology</i> , 0, , .	2.6	6
47	Definition of a measurement scale of graininess from reflectance and visual measurements. <i>Optics Express</i> , 2018, 26, 30116.	3.4	6
48	Variation of the luminous efficacy of direct, global and diffuse solar radiation with atmospheric parameters. <i>Lighting Research and Technology</i> , 2004, 36, 31-41.	2.7	5
49	Key Comparison EUROMET.PR-K3.b.1: Bilateral comparison on illuminance responsivity between IFA-CSIC/Spain and UME/Turkey. <i>Metrologia</i> , 2005, 42, 02002-02002.	1.2	5
50	Reflectance properties analysis of mineral based mortars for renders: Research of their energy performance. <i>Energy and Buildings</i> , 2014, 76, 615-621.	6.7	5
51	Multilateral spectral radiance factor scale comparison. <i>Applied Optics</i> , 2017, 56, 1996.	2.1	5
52	Deviation of white diffuse reflectance standards from perfect reflecting diffuser at visible and near-infrared spectral ranges. <i>Metrologia</i> , 2019, 56, 055005.	1.2	5
53	Real-time accurate rendering of color and texture of car coatings. <i>IS&amp;T International Symposium on Electronic Imaging</i> , 2019, 31, 76-1-76-6.	0.4	5
54	Fundamental scattering quantities for the determination of reflectance and transmittance. <i>Optics Express</i> , 2021, 29, 219.	3.4	5

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55	Accounting for polarization-related effects in the measurement of the bidirectional reflectance distribution function. <i>Metrologia</i> , 2020, 57, 045003.	1.2	5
56	Instrumental Factors Influencing Absorption Measurements for Fluid Food Color Determination. <i>Journal of AOAC INTERNATIONAL</i> , 2004, 87, 632-638.	1.5	4
57	Realization of the candela from a partial filteringV(Å) detector traceable to a cryogenic radiometer. <i>Metrologia</i> , 1995, 32, 675-679.	1.2	3
58	NPL-CSIC comparison of regular reflectance measurements. <i>Metrologia</i> , 2000, 37, 323-327.	1.2	3
59	Ultraviolet calibration of detectors with respect to a cryogenic radiometer. <i>Metrologia</i> , 2000, 37, 555-558.	1.2	3
60	Determining the time-frequency parameters of low-power bright picosecond optical pulses by using the interferometric technique. <i>Optik</i> , 2010, 121, 426-434.	2.9	3
61	How the method of choice to assess liquid crystal tunable filters™ bandpass function impacts the spectroradiometric measurements performed with them. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 015707.	2.2	3
62	Characterization of the train-average time-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. <i>Optik</i> , 2011, 122, 136-141.	2.9	3
63	Towards a better understanding of the color shift of effect coatings by densely sampled spectral BRDF measurement. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
64	Preliminary measurement scales for sparkle and graininess. <i>Optics Express</i> , 2021, 29, 7589.	3.4	3
65	Primary facility for traceable measurement of the BSSRDF. <i>Optics Express</i> , 2021, 29, 34175.	3.4	3
66	Description of precision colorimeter. <i>Journal of Physics E: Scientific Instruments</i> , 1987, 20, 882-884.	0.7	2
67	Spectral Responsivity Calibration of Ge Photodiodes with Respect to an Electrically-calibrated Pyroelectric Radiometer and to a Black-body Source. <i>Metrologia</i> , 1991, 28, 141-144.	1.2	2
68	Realization of an infrared spectroradiometer. <i>Applied Optics</i> , 1991, 30, 1279.	2.1	2
69	Calculation of the Field-intensity Pattern in Optical Planar Waveguide by the Finite-differences Time-domain Method. <i>Journal of Optical Communications</i> , 1999, 20, .	4.7	2
70	Experimental assessment of relative temporal fluctuation of CCD pixels. <i>EPJ Applied Physics</i> , 2006, 33, 225-228.	0.7	2
71	Differences of silicon photodiode spectral reflectance among the same batch. <i>Optoelectronics Letters</i> , 2008, 4, 347-350.	0.8	2
72	Electron-multiplying CCD astronomical photometry. , 2010, , .		2

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73	Deconvolution of non-zero solid angles effect in Bidirectional Scattering Distribution Function measurements. Proceedings of SPIE, 2011, , .	0.8	2
74	Bidirectional reflectance distribution function of diffuse reflectance standards around the retro-reflection direction. Metrologia, 2014, 51, 148-153.	1.2	2
75	Customizing plasmonic diffraction patterns by laser interference. RSC Advances, 2017, 7, 30118-30127.	3.6	2
76	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
77	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
78	<title>Germanium photodiodes calibration as standards of optical fiber systems power measurements</title>. , 1991, 1504, 66.		1
79	Measuring the reflectance and the internal quantum efficiency of silicon and InGaAs/InP photodiodes in near infrared range. , 2008, , .		1
80	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
81	An absolute radiometer based on InP photodiodes. , 2010, , .		1
82	Performing the triple auto-correlation of picosecond optical pulse train with a photo electromotive force detector. Proceedings of SPIE, 2011, , .	0.8	1
83	Photodiodes as Optical Radiation Measurement Standards. , 0, , .		1
84	Angular distribution of the averaged luminous intensity of low power LEDs transfer standards. Proceedings of SPIE, 2013, , .	0.8	1
85	Optical transmission properties of Pentelic and Paros marble. Applied Optics, 2015, 54, B251.	1.8	1
86	Consistency analysis of multidimensional gonio-spectrophotometric measurements in interlaboratory comparisons. Metrologia, 2016, 53, 1024-1030.	1.2	1
87	Zernike polynomials for photometric characterization of LEDs. Journal of Optics (United Kingdom), 2016, 18, 025605.	2.2	1
88	Unidimensional photocurrent model for induced-junction photodiodes. Journal of Physics: Conference Series, 2018, 972, 012015.	0.4	1
89	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
90	An insight into the present capabilities of national metrology institutes for measuring sparkle. Metrologia, 2020, 57, 065029.	1.2	1

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91	Challenges in appearance characterization of coatings with effect pigments. , 2016, , .		1
92	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
93	<title>Interferometric system for the inspection and measurement of the quality of optical fiber ends</title>. , 1991, 1504, 281.		0
94	<title>Anomalous performance of a QED-100 detector</title>. , 1995, , .		0
95	An Optical Method to Measure Time Response in Scanning Spectrophotometers. Applied Optics, 2000, 39, 6524.	2.1	0
96	Tristimulus weight functions to calculate musts color coordinates from 10-nm bandwidth spectral data. , 2002, , .		0
97	A new technique of measuring low-power picosecond optical pulse trains. , 2007, , .		0
98	Applying the triple correlation functions to characterizing high-frequency repetition trains of picosecond optical pulses. Proceedings of SPIE, 2008, , .	0.8	0
99	Assessment of a pixel-to-pixel metrological approach to the measurement of astronomical magnitudes. Metrologia, 2009, 46, S228-S232.	1.2	0
100	Characterization of the time-frequency parameters inherent in the radiation of semiconductor heterolasers using interferometric technique. Proceedings of SPIE, 2009, , .	0.8	0
101	Initial stage of the active mode-locking in semiconductor heterolasers. Proceedings of SPIE, 2009, , .	0.8	0
102	Characterizing the parameters of ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor laser with an external fiber cavity. , 2010, , .		0
103	Analysis of originating ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor heterolasers with an external fiber cavity. , 2010, , .		0
104	Practical aspects of applying triple correlations to the characterization of high-frequency repetition trains of picosecond optical pulses. , 2010, , .		0
105	Study of some optoelectronics characteristics of InGaAs/InP photodetectors. Proceedings of SPIE, 2010, , .	0.8	0
106	Qualitative analysis of ultra-short optical dissipative solitary pulses in the actively mode-locked semiconductor heterolasers with an external fiber cavity. , 2011, , .		0
107	Shaping triple correlations of low-power optical pulse trains and their experimental modeling via acousto-optic technique. , 2011, , .		0
108	Triple product acousto-optical processor for the astrophysical applications. , 2012, , .		0

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109	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
110	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
111	Angular and Spectral Bandwidth Considerations in BRDF Measurements of Interference- and Diffraction-Based Coatings. Coatings, 2020, 10, 1128.	2.6	0
112	Accurate physics-based digital reproduction of effect coatings. Optics Express, 2021, 29, 34671-34683.	3.4	0
113	Angular and spectral radiant intensity distribution of high brightness white LEDs. Optica Pura Y Aplicada, 2012, 45, 131-136.	0.1	0
114	The Applications Of Laser Beams To Absolute Photodetector Calibration. Proceedings of SPIE, 1988, , .	0.8	0
115	SEDOPTICA Newsletters. , 2016, 49, iii-iv.		0
116	SEDOPTICA Newsletters. Optica Pura Y Aplicada, 2016, 49, iii-v.	0.1	0
117	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