Juan Campos

List of Publications by Year in descending order

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267	3,672	172207	189595
papers	citations	29 h-index	50 g-index

269	269	269	1602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Encoding amplitude information onto phase-only filters. Applied Optics, 1999, 38, 5004.	2.1	392
2	Image processing with the radial Hilbert transform:â€ƒtheory and experiments. Optics Letters, 2000, 25, 99.	1.7	250
3	Time fluctuations of the phase modulation in a liquid crystal on silicon display: characterization and effects in diffractive optics. Optics Express, 2008, 16, 16711.	1.7	155
4	Optimization and performance criteria of a Stokes polarimeter based on two variable retarders. Optics Express, 2010, 18, 9815.	1.7	98
5	Mueller-Stokes characterization and optimization of a liquid crystal on silicon display showing depolarization. Optics Express, 2008, 16, 1669.	1.7	80
6	Accuracy of location measurement of a noisy target in a nonoverlapping background. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1996, 13, 1653.	0.8	64
7	Modulation light efficiency of diffractive lenses displayed in a restricted phase-mostly modulation display. Applied Optics, 2004, 43, 6278.	2.1	60
8	Matched filter and phase only filter performance in colour image recognition. Optics Communications, 1989, 73, 277-284.	1.0	59
9	Phase and amplitude modulation of elliptic polarization states by nonabsorbing anisotropic elements: application to liquid-crystal devices. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1013.	0.8	55
10	Conical refraction as a tool for polarization metrology. Optics Letters, 2013, 38, 4100.	1.7	53
11	Influence of the incident angle in the performance of Liquid Crystal on Silicon displays. Optics Express, 2009, 17, 8491.	1.7	52
12	Implementation of bipolar real-valued input scenes in a real-time optical correlator: application to color pattern recognition. Optical Engineering, 1998, 37, 144.	0.5	49
13	Effects of Amplitude and Phase Mismatching Errors in the Generation of a Kinoform for Pattern Recognition. Japanese Journal of Applied Physics, 1995, 34, 6423-6432.	0.8	46
14	Programmable apodizer to compensate chromatic aberration effects using a liquid crystal spatial light modulator. Optics Express, 2005, 13, 716.	1.7	43
15	Achromatic diffractive lens written onto a liquid crystal display. Optics Letters, 2006, 31, 392.	1.7	42
16	The minimum Euclidean distance principle applied to improve the modulation diffraction efficiency in digitally controlled spatial light modulators. Optics Express, 2010, 18, 10581.	1.7	40
17	Depth of focus increase by multiplexing programmable diffractive lenses. Optics Express, 2006, 14, 10207.	1.7	39
18	Programmable axial apodizing and hyperresolving amplitude filters with a liquid-crystal spatial light modulator. Optics Letters, 1999, 24, 628.	1.7	38

#	Article	IF	Citations
19	Amplitude apodizers encoded onto Fresnel lenses implemented on a phase-only spatial light modulator. Applied Optics, 2001, 40, 2316.	2.1	38
20	Anamorphic and spatial frequency dependent phase modulation on liquid crystal displays. Optimization of the modulation diffraction efficiency. Optics Express, 2005, 13, 2111.	1.7	37
21	Combined Mueller and Jones matrix method for the evaluation of the complex modulation in a liquid-crystal-on-silicon display. Optics Letters, 2008, 33, 627.	1.7	35
22	Jones matrix treatment for optical Fourier processors with structured polarization. Optics Express, 2011, 19, 4583.	1.7	34
23	Polarization tailored novel vector beams based on conical refraction. Optics Express, 2015, 23, 5704.	1.7	34
24	Time-resolved Mueller matrix analysis of a liquid crystal on silicon display. Applied Optics, 2008, 47, 4267.	2.1	33
25	Optical image encryption technique based on deterministic phase masks. Optical Engineering, 2016, 55, 103108.	0.5	33
26	Different strategies in optical recognition of polychromatic images. Applied Optics, 1992, 31, 2560.	2.1	31
27	Compact LCOSâ€“SLM Based Polarization Pattern Beam Generator. Journal of Lightwave Technology, 2015, 33, 2047-2055.	2.7	31
28	Fractional derivativesâ€”analysis and experimental implementation. Applied Optics, 2001, 40, 5943.	2.1	30
29	Tailoring the depth of focus for optical imaging systems using a Fourier transform approach. Optics Letters, 2007, 32, 844.	1.7	29
30	Wavelength dependence of polarimetric and phase-shift characterization of a liquid crystal on silicon display. Journal of the European Optical Society-Rapid Publications, 0, 3, .	0.9	29
31	Polarimetric method for liquid crystal displays characterization in presence of phase fluctuations. Optics Express, 2013, 21, 3182.	1.7	29
32	Synthesis and characterization of depolarizing samples based on the indices of polarimetric purity. Optics Letters, 2017, 42, 4155.	1.7	29
33	Polarimetric imaging of biological tissues based on the indices of polarimetric purity. Journal of Biophotonics, 2018, 11, e201700189.	1.1	28
34	Circular-harmonic minimum average correlation energy filter for color pattern recognition. Applied Optics, 1994, 33, 2180.	2.1	27
35	Two-zone pupil filters. Optics Communications, 2008, 281, 913-922.	1.0	27
36	Depolarizing metrics for plant samples imaging. PLoS ONE, 2019, 14, e0213909.	1.1	27

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37	Simple expressions for performance parameters of complex filters, with applications to super-Gaussian phase filters. Optics Letters, 2004, 29, 932.	1.7	26
38	Three-zone pupil filters. Optics Communications, 2008, 281, 3623-3630.	1.0	26
39	Experimental results in color pattern recognition by multichannel matched filtering. Optical Engineering, 1992, 31, 2231.	0.5	25
40	Phase-only filter with improved discrimination. Optics Letters, 1994, 19, 1340.	1.7	25
41	Color pattern recognition with circular component whitening. Optics Letters, 1996, 21, 498.	1.7	25
42	Digital holography with a point diffraction interferometer. Optics Express, 2005, 13, 1885.	1.7	25
43	Frequency responses and resolving power of numerical integration of sampled data. Optics Express, 2005, 13, 2892.	1.7	25
44	Optimization and tolerance analysis of a polarimeter with ferroelectric liquid crystals. Applied Optics, 2013, 52, 5748.	0.9	25
45	Polychromatic axial behavior of axial apodizing and hyperresolving filters. Applied Optics, 1990, 29, 1631.	2.1	24
46	Optimized Stokes polarimeters based on a single twisted nematic liquid-crystal device for the minimization of noise propagation. Applied Optics, 2011, 50, 5437.	2.1	24
47	Optimal filter approximation by means of a phase-only filter with quantization. Optics Letters, 1994, 19, 978.	1.7	22
48	Optimization, tolerance analysis and implementation of a Stokes polarimeter based on the conical refraction phenomenon. Optics Express, 2015, 23, 5636.	1.7	22
49	Polarimetric imaging microscopy for advanced inspection of vegetal tissues. Scientific Reports, 2021, 11, 3913.	1.6	22
50	Fully complex synthetic discriminant functions written onto phase-only modulators. Applied Optics, 2000, 39, 5965.	2.1	21
51	Jones matrix treatment for polarization fourier optics. Journal of Modern Optics, 2004, 51, 2031-2038.	0.6	21
52	Super resolution imaging achieved by using on-axis interferometry based on a Spatial Light Modulator. Optics Express, 2013, 21, 9615.	1.7	21
53	CAROTENOID AND CONJUGATED POLYAMINE LEVELS AS INDICATORS OF ULTRAVIOLETâ€C INDUCED STRESS IN Arabidopsis thaliana*. Photochemistry and Photobiology, 1991, 53, 689-693.	1.3	20
54	Axially invariant pupil filters. Journal of Modern Optics, 2000, 47, 57-68.	0.6	20

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55	Integration in the Fourier domain for restoration of a function from its slope:â€ƒcomparison of four methods. Optics Letters, 2002, 27, 1986.	1.7	20
56	Optical encoding of color three-dimensional correlation. Optics Communications, 2002, 209, 35-43.	1.0	20
57	Evolution of the transverse response of an optical system with complex filters. Optics Communications, 2005, 249, 183-192.	1.0	20
58	Polarization gating based on Mueller matrices. Journal of Biomedical Optics, 2017, 22, 1.	1.4	20
59	Analysis of Fabryâ€“Perot interference effects on the modulation properties of liquid crystal displays. Optics Communications, 2006, 265, 84-94.	1.0	19
60	Computation of arbitrarily constrained synthetic discriminant functions. Applied Optics, 1995, 34, 3904.	2.1	17
61	Redundancy of stereoscopic images: Experimental evaluation. Optics Express, 2005, 13, 10895.	1.7	16
62	Electrical origin and compensation for two sources of degradation of the spatial frequency response exhibited by liquid crystal displays. Optical Engineering, 2007, 46, 114001.	0.5	16
63	Mueller Matrix Polarimetric Imaging Analysis of Optical Components for the Generation of Cylindrical Vector Beams. Crystals, 2020, 10, 1155.	1.0	16
64	Axial and Extra-axial Responses in Aberrated Optical Systems with Apodizers. Optimization of the Strehl Ratio. Journal of Modern Optics, 1989, 36, 733-749.	0.6	15
65	The role of amplitude and phase of the Fourier transform in the digital image processing. American Journal of Physics, 1991, 59, 744-748.	0.3	15
66	Real-time binary-amplitude phase-only filters. Applied Optics, 1997, 36, 7428.	2.1	15
67	Rotation invariant color pattern recognition by use of a three-dimensional Fourier transform. Applied Optics, 2003, 42, 1434.	2.1	15
68	Calibrating the Elements of a Multispectral Imaging System. Journal of Imaging Science and Technology, 2009, 53, 31102-1-31102-10.	0.3	15
69	Polarimetric data-based model for tissue recognition. Biomedical Optics Express, 2021, 12, 4852.	1.5	15
70	Optical triple random-phase encryption. Optical Engineering, 2017, 56, 1.	0.5	15
71	Colour pattern recognition by three-dimensional correlation. Optics Communications, 2000, 184, 335-343.	1.0	14
72	Arbitrary state of polarization with customized degree of polarization generator. Optics Letters, 2015, 40, 3790.	1.7	14

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73	LCoS display phase self-calibration method based on diffractive lens schemes. Optics and Lasers in Engineering, 2018, 106, 147-154.	2.0	14
74	Depolarization metric spaces for biological tissues classification. Journal of Biophotonics, 2020, 13, e202000083.	1.1	14
75	Super-broadband geometric phase devices based on circular polarization converter with mirror symmetry. Applied Physics Letters, 2021, 119, .	1.5	14
76	Completeness condition for unambiguous profile reconstruction by sub-aperture stitching. Optics Express, 2018, 26, 27212.	1.7	14
77	Recognition of partially occluded objects by correlation methods. Optics Communications, 1994, 106, 45-51.	1.0	13
78	New arrangement for limited intensity invariance pattern recognition with high diffraction efficiency. Optics Communications, 1995, 118, 193-198.	1.0	13
79	Color component transformations for optical pattern recognition. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2656.	0.8	13
80	One-step multichannel pattern recognition based on the pixelated structure of a spatial light modulator. Applied Optics, 1998, 37, 2063.	2.1	13
81	Bessel function output from an optical correlator with a phase-only encoded inverse filter. Applied Optics, 1999, 38, 6709.	2.1	13
82	Inherent apodization of lenses encoded on liquid-crystal spatial light modulators. Applied Optics, 2000, 39, 6034.	2.1	13
83	Evaluation and correction of aberrations in an optical correlator by phase-shifting interferometry. Optics Letters, 2003, 28, 1117.	1.7	13
84	Characterization of the retardance of a wave plate to increase the robustness of amplitude-only and phase-only modulations of a liquid crystal display. Journal of Modern Optics, 2005, 52, 633-650.	0.6	13
85	Point diffraction interferometer with a liquid crystal monopixel. Optics Express, 2013, 21, 8116.	1.7	13
86	Quantitative performance of a polarization diffraction grating polarimeter encoded onto two liquid-crystal-on-silicon displays. Optics and Laser Technology, 2017, 96, 219-226.	2.2	13
87	Comparison of computer-generated holograms produced by laser printers and lithography: application to pattern recognition. Optical Engineering, 1995, 34, 3520.	0.5	12
88	Production of computer-generated phase holograms using graphic devices: application to correlation filters. Optical Engineering, 2000, 39, 1612.	0.5	12
89	Use of ferroelectric liquid crystal panels to control state and degree of polarization in light beams. Optics Letters, 2014, 39, 659.	1.7	12
90	Detection theory approach to multichannel pattern location. Optics Letters, 1997, 22, 1887.	1.7	11

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91	Holographic superresolution using spatial light modulator. Journal of the European Optical Society-Rapid Publications, 0, 8, .	0.9	11
92	Inline digital holographic movie based on a double-sideband filter. Optics Letters, 2015, 40, 4142.	1.7	11
93	Influence of temporal averaging in the performance of a rotating retarder imaging Stokes polarimeter. Optics Express, 2020, 28, 10981.	1.7	11
94	Derivation of weighting coefficients for multiplexed phase-diffractive elements. Optics Letters, 1995, 20, 2360.	1.7	10
95	Gray-level computer-generated hologram filters for multiple-object correlation. Applied Optics, 2000, 39, 1233.	2.1	10
96	Convergent optical correlator alignment based on frequency filtering. Applied Optics, 2002, 41, 1505.	2.1	10
97	High depth of focus by combining annular lenses. Optics Communications, 2006, 266, 6-12.	1.0	10
98	Improved expressions for performance parameters for complex filters. Optics Letters, 2007, 32, 1713.	1.7	10
99	Anamorphic zoom system based on liquid crystal displays. Journal of the European Optical Society-Rapid Publications, 0, 4, .	0.9	10
100	Customized depolarization spatial patterns with dynamic retardance functions. Scientific Reports, 2021, 11, 9415.	1.6	10
101	Displacement-free stereoscopic phase measuring deflectometry based on phase difference minimization. Optics Express, 2020, 28, 31658.	1.7	10
102	Optoelectronic pure phase correlator. Optics Communications, 1994, 110, 27-32.	1.0	9
103	Influence of nonuniform pupils in imaging periodical structures by photolithographic systems. Optical Engineering, 1998, 37, 1353.	0.5	9
104	Symmetry properties with pupil phase-filters. Optics Express, 2004, 12, 2548.	1.7	9
105	Optical retarder system with programmable spectral retardance. Optics Letters, 2014, 39, 5483.	1.7	9
106	Complete snapshot Stokes polarimeter based on a single biaxial crystal. Optics Letters, 2016, 41, 4566.	1.7	9
107	Dual polarization split lenses. Optics Express, 2017, 25, 23773.	1.7	9
108	Generation of reconfigurable optical traps for microparticles spatial manipulation through dynamic split lens inspired light structures. Scientific Reports, 2018, 8, 11263.	1.6	9

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109	Phase-only filters codified with Burckhardtâ€™s method. Applied Optics, 1990, 29, 5232.	2.1	8
110	Optical pattern recognition in defocused images using correlation filters. Optics Communications, 1991, 82, 370-379.	1.0	8
111	Analytical and Numerical Approximations in Fresnel Diffraction. Journal of Modern Optics, 1993, 40, 1091-1106.	0.6	8
112	Coherent recognition of colored patterns. Optics Communications, 1997, 133, 77-81.	1.0	8
113	Invariant pattern recognition against defocus based on subband decomposition of the filter. Optics Communications, 2000, 185, 33-40.	1.0	8
114	Copying low spatial frequency diffraction gratings in photopolymer as phase holograms. Journal of Modern Optics, 2000, 47, 1089-1097.	0.6	8
115	Binary polarization pupil filter: Theoretical analysis and experimental realization with a liquid crystal display. Optics Communications, 2006, 264, 63-69.	1.0	8
116	New method to improve the accuracy in a sequential lateral shearing interferometer. Optical Engineering, 2011, 50, 115601.	0.5	8
117	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. Optics Express, 2015, 23, 18080.	1.7	8
118	Contrast performance of pure phase correlation. Journal of Optics, 1993, 24, 71-75.	0.3	7
119	Design of correlation filters invariant to degradations characterizable by an optical transfer function. Optics Communications, 1996, 129, 337-343.	1.0	7
120	Joint transform correlator architecture with a single LCTV operating in phase-mostly mode. Optics Communications, 1998, 151, 101-109.	1.0	7
121	Nanofabrication of Fresnel zone plate lenses for X-ray optics. Microelectronic Engineering, 2006, 83, 1355-1359.	1.1	7
122	Implementation and performance of an in-line incomplete Stokes polarimeter based on a single biaxial crystal. Applied Optics, 2015, 54, 8758.	2.1	7
123	Nanometer accuracy with continuous scans at the ALBA-NOM. , 2016, , .		7
124	Influence of Amplitude-only Filters in Optical Systems with Residual Longitudinal Chromatic Aberration. Journal of Modern Optics, 1991, 38, 1703-1720.	0.6	6
125	Phase quantization effects on Fresnel lenses encoded in low resolution devices. Optics Communications, 1996, 132, 35-40.	1.0	6
126	Phase-only filtering on the three-dimensional Fourier spectrum of color images. Applied Optics, 2003, 42, 1426.	2.1	6

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127	Multiplexed lenses written onto a liquid crystal display to increase depth of focus. , 2006, , .		6
128	Method based on the double sideband technique for the dynamic tracking of micrometric particles. Journal of Optics (United Kingdom), 2016, 18, 065603.	1.0	6
129	Microparticle Manipulation and Imaging through a Self-Calibrated Liquid Crystal on Silicon Display. Applied Sciences (Switzerland), 2018, 8, 2310.	1.3	6
130	Wavefront imaging by using an inline holographic microscopy system based on a double-sideband filter. Optics and Lasers in Engineering, 2019, 113, 71-76.	2.0	6
131	Unraveling the physical information of depolarizers. Optics Express, 2021, 29, 38811.	1.7	6
132	Jones matrix treatment for polarization fourier optics. , 0, .		6
133	Experimental implementation of correlation filters for optical pattern recognition in defocused images. Journal of Optics, 1994, 25, 25-31.	0.3	5
134	Fullin-situcharacterization of spatial light modulators in an optical correlator. Filter adaptation to operating curves. Journal of Modern Optics, 1998, 45, 2461-2472.	0.6	5
135	A parallel implementation of the optical Gabor-wavelet transform. Journal of Optics, 1999, 1, 116-120.	1.5	5
136	Filter design of composite trade-off filter with support regions to obtain invariant pattern recognition with defocused images. Optics and Lasers in Engineering, 2003, 40, 67-79.	2.0	5
137	Complex encoding of rotation-invariant filters onto a single phase-only spatial light modulator. Applied Optics, 2003, 42, 1973.	2.1	5
138	Analysis of the positioning error on lateral shearing surface reconstruction with a Fizeau interferometer. Proceedings of SPIE, 2009, , .	0.8	5
139	Methods to improve the accuracy of the surface reconstruction with a Fizeau interferometer. Proceedings of SPIE, 2009, , .	0.8	5
140	Simple spectral technique to identify the ordinary and extraordinary axes of a liquid crystal retarder. Optics Communications, 2015, 349, 105-111.	1.0	5
141	Transformation of vector beams with radial and azimuthal polarizations in biaxial crystals. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1012.	0.8	5
142	Polarization imaging with enhanced spatial resolution. Optics Communications, 2015, 338, 95-100.	1.0	5
143	Resolving power and encircled energy in aberrated optical systems with filters optimized for the Strehl ratio. Journal of Optics, 1988, 19, 135-144.	0.3	4
144	Three-dimensional Differences in the Polychromatic Responses of Non-uniform Transmission Filters and Equivalent Pupils. Journal of Modern Optics, 1989, 36, 1341-1351.	0.6	4

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145	Recognition Of Polychromatic Test By Multi-Channel Correlation Filtering. , 1989, , .		4
146	Multichannel rotation-invariant pattern recognition for polychromatic objects using circular harmonic filters. Optics Communications, 1992, 91, 425-432.	1.0	4
147	Control of the polychromatic response of an optical system through the use of annular color filters. Applied Optics, 1995, 34, 1655.	2.1	4
148	Pattern recognition with a phase-shifting interferometric correlator. Discrimination-capability enhancement. Applied Physics B: Lasers and Optics, 1997, 64, 331-338.	1.1	4
149	Binary amplitude phase-only filter with high multiobject discrimination capability. Optical Engineering, 1998, 37, 2351.	0.5	4
150	Optical Color Pattern Recognition with High Discrimination Capability Using Binary Amplitude Phase-Only Filters. Optical Review, 1999, 6, 42-48.	1.2	4
151	Shift-invariant optoelectronic associative memory by using a cascade of correlators. Optical Engineering, 2000, 39, 993.	0.5	4
152	Low spatial frequency characterization of holographic recording materials applied to correlation. , 2003, , .		4
153	Polarization vortices generation by diffraction from a four quadrant polarization mask. Optics Communications, 2007, 276, 222-230.	1.0	4
154	Misalignment error analysis in polychromatic division of focal plane Stokes polarimeters. OSA Continuum, 2019, 2, 1565.	1.8	4
155	Design of polarimeters based on liquid crystals and biaxial crystals for polarization metrology. Optica Pura Y Aplicada, 2016, 49, 167-177.	0.0	4
156	An Approximate Method to Obtain the Amplitude Distribution on the Exit Reference Sphere Due to a Non-uniform Transmission Filter. Journal of Modern Optics, 1989, 36, 531-544.	0.6	3
157	Implementation of real filters in a joint transform correlator using a positive-only display. Journal of Optics, 1994, 25, 33-40.	0.3	3
158	Sidelobe elimination for generalized synthetic discriminant functions by a two-filter correlation and subsequent postprocessing of the intensity distributions. Applied Optics, 1994, 33, 3050.	2.1	3
159	Pure phase correlation with improved discrimination capability. Optical Review, 1996, 3, 177-183.	1.2	3
160	Minimum mean square error filters for spatially non-overlapping phase target and input scene noise. Optics Communications, 1996, 127, 325-333.	1.0	3
161	Optoelectronic Thresholder for Pattern Recognition with Double Feedback Module. Optical Review, 1997, 4, 572-577.	1.2	3
162	Multichannel correlation by color multiplexing. Optics Communications, 1999, 166, 173-180.	1.0	3

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163	Optimization of the polychromatic discrimination capability in multichannel pattern recognition. Optical Engineering, 2002, 41, 3250.	0.5	3
164	Enhancement of the broadband modulation diffraction efficiency of liquid-crystal displays. Optics Letters, 2012, 37, 52.	1.7	3
165	Design of correlation filters invariant to degradations characterizable by an optical transfer function. , 1996, 129, 337-337.		3
166	Indices of polarimetric purity for biological tissues inspection. , 2018, , .		3
167	Aberrated Optical Systems with Optimum Apodizers for the Strehl Ratio: Axial and Extra-axial Point-spread Function and Modulation-transfer Function. Journal of Modern Optics, 1989, 36, 1513-1526.	0.6	2
168	MarÃ©chal Intensity Criteria for Apertures with Polynomial Non-uniform Transmission. Evaluation of the Diffraction Focus and the Strehl Ratio. Journal of Modern Optics, 1991, 38, 349-362.	0.6	2
169	Pattern recognition with quantized computer-generated filters. Applied Optics, 1992, 31, 3337.	2.1	2
170	<title>Study of the influence of nonuniform pupils in photolithographic systems through the apparent transfer function</title>. , 1996, , .		2
171	Input-image homogenization as a method to improve a correlatorâ€™s discrimination capability. Optics Letters, 1998, 23, 1129.	1.7	2
172	Pattern location estimation for multichannel images. Optics Communications, 1999, 165, 107-117.	1.0	2
173	Optical codification for multiclass pattern recognition using a parallel correlator. Optics Communications, 1999, 162, 121-129.	1.0	2
174	Parallel classification of multiple objects using a phase-only multichannel optical correlator. Optical Engineering, 2003, 42, 2354.	0.5	2
175	Encoding 3D correlation in an optical processor. Optics Communications, 2005, 256, 279-287.	1.0	2
176	The assessment of phase only filters in imaging systems by the classical optical merit functions. , 2008, , .		2
177	Modulation diffraction efficiency of spatial light modulators. , 2011, , .		2
178	Error compensation for the calibration of mechanical mirror benders. Proceedings of SPIE, 2013, , .	0.8	2
179	Design of a polarimeter with two ferroelectric liquid crystal panels. , 2013, , .		2
180	Multidisciplinary educational activity based on optical experiments conducted within an art context. , 2015, , .		2

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181	Parallel aligned liquid crystal on silicon display based optical set-up for the generation of polarization spatial distributions. , 2015, , .		2
182	Image enhancement by spatial frequency post-processing of images obtained with pupil filters. Optics Communications, 2016, 380, 21-27.	1.0	2
183	Deflectometry encoding the measured angle in a time-dependent intensity signal. Review of Scientific Instruments, 2019, 90, 021707.	0.6	2
184	Dynamic microparticle manipulation through light structures generated by a self-calibrated Liquid Crystal on Silicon display. , 2018, , .		2
185	Super-resolution imaging technique based on a LCoS display: Increase of CCD resolution limit. Optica Pura Y Aplicada, 2013, 46, 223-230.	0.0	2
186	Optical edge detection by a holographic filtering method. Optics Communications, 1988, 68, 334-338.	1.0	1
187	Pupil symmetries for identical axial response. Microwave and Optical Technology Letters, 1994, 7, 174-178.	0.9	1
188	<title>Improvement of light efficiency of the optimal filter for optical pattern recognition</title>. , 1995, , .		1
189	<title>Application of the Gabor multiscale decomposition of an image to pattern recognition</title>. , 1996, 2730, 622.		1
190	Pure phase correlation applied to multi-object colour scenes. Journal of Optics, 1997, 28, 112-117.	0.3	1
191	Multichannel pattern recognition of color images. , 1999, 3904, 216.		1
192	<title>Programmable amplitude apodizers in liquid crystal spatial light modulators</title>. , 2001, , .		1
193	<title>Real-time correlator with liquid crystal panels: modulation optimization</title>. , 2001, , .		1
194	Optimization of liquid crystal displays behavior in optical image processing and in diffractive optics. , 2001, , .		1
195	<title>Phase filter multiplexing for pattern recognition process</title>. , 2001, , .		1
196	<title>Invariant pattern recognition with defocused images</title>. , 2001, , .		1
197	Multichannel optical correlator for texture classification. Optical Engineering, 2003, 42, 2062.	0.5	1
198	Review of operating modes for twisted nematic liquid crystal displays for applications in optical image processing. , 2003, , .		1

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199	Image Pattern Recognition with Separable Trade-Off Correlation Filters. Lecture Notes in Computer Science, 2005, , 162-169.	1.0	1
200	Polarization diffractive elements displayed with liquid crystal spatial light modulators. , 2006, , .		1
201	Variable waveplate-based polarimeter for polarimetric metrology. , 2009, , .		1
202	Edge detector tolerant to object defocusing. Optics Communications, 2010, 283, 3639-3645.	1.0	1
203	Study of Liquid Crystal on Silicon Displays for Their Application in Digital Holography. , 0, , .		1
204	Uses of spatial light modulators for colour optical processing. Proceedings of SPIE, 2013, , .	0.8	1
205	Methods to obtain the waveform profile from slope measurements. Proceedings of SPIE, 2013, , .	0.8	1
206	Super-resolution imaging based on liquid crystal on silicon displays technology. Proceedings of SPIE, 2013, , .	0.8	1
207	Different applications of liquid crystal panels. Proceedings of SPIE, 2013, , .	0.8	1
208	Flexible polarimeter architecture based on a birefringent grating. Applied Optics, 2014, 53, 5585.	0.9	1
209	Labeling technique for nonplanar surfaces based on the combination of a diffractive axilens with digital holography methods. Optical Engineering, 2015, 54, 054109.	0.5	1
210	Digital holographic movie by using a point diffraction interferometer. Optical Engineering, 2015, 54, 1.	0.5	1
211	Self-addressed diffractive lens schemes for the characterization of LCoS displays. , 2018, , .		1
212	Correlation filters with carrier frequency for multiclass pattern recognition. , 1998, , .		1
213	Indices of polarimetric purity to enhance the image quality in biophotonics applications. , 2018, , .		1
214	Limited impulse response circular harmonic phase-only filter. Optics Communications, 1993, 96, 13-20.	1.0	0
215	<title>Computation of phase-only synthetic discriminant fubctions: a new algorithm</title>. , 1994, , .		0
216	<title>Correlation methods in polychromatic objects recognition: application of lithographic filters</title>. , 1995, , .		0

#	Article	IF	Citations
217	<title>Whitening preprocessing of color components for pattern recognition</title>. , 1996, , .		0
218	<title>Design of phase-only filters with binary amplitude optimizing the discrimination: direct search or simulated annealing?</title>. , 1996, 2730, 51.		0
219	Complex sidelobe removal by a multichannel procedure. Optical Engineering, 1996, 35, 514.	0.5	0
220	<title>Implementation of optimized binary amplitude phase-only filters in phase-only modulators</title>. , 1997, , .		0
221	Full in-situ characterization of spatial light modulators in an optical correlator. Filter adaptation to operating curves. Journal of Modern Optics, 1998, 45, 2461-2472.	0.6	0
222	Pure phase correlation in a phase-only joint transform correlator. , 1998, 3490, 492.		0
223	Correlation enhancement by adapting the filter to in-situ measured operating curves of the SLMs. , 1998, , .		0
224	<title>Image segmentation with a white light optical correlator</title>. , 1999, 3749, 775.		0
225	<title>Optical architectures for real-time image processing and pattern recognition</title>. , 1999, , .		0
226	<title>Optical classification employing composed gray-level CGH filters</title>. , 1999, , .		0
227	<title>Adapting the input scene and the filter to the operating curves of the modulators in real-time correlators</title>. , 1999, , .		0
228	<title>Use of the periodic structure of spatial light modulators for parallel pattern recognition</title>. , 1999, 3572, 305.		0
229	<title>Fabrication of computer-generated phase holograms using photopolymers as holographic recording material</title>. , 1999, , .		0
230	Optical correlator as a tool for physicists and engineers training in signal processing. , 2000, , .		0
231	Optimal multichannel estimation of the location of a target with nonoverlapping noise. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 2140.	0.8	0
232	<title>Simultaneous encoding of amplitude apodizers and Fresnel lenses in spatial light modulators</title>. , 2001, 4419, 692.		0
233	<title>3D filter design for color pattern recognition</title>. , 2001, , .		0
234	<title>Parallel multichannel optical correlator for frequency subband decomposition</title>. , 2001, , .		0

#	Article	IF	Citations
235	Multichannel analysis to obtain invariant pattern recognition with defocused images. , 2003, 4829, 247.		0
236	Elliptic light polarization modulation of liquid crystal panels. , 2003, , .		0
237	Filtering tests for the alignment of a convergent correlator. , 2003, 4829, 423.		0
238	Real time texture classification with convregent diffractometer. , 2003, , .		0
239	Diffraction efficiency of phase-only diffractive elements displayed onto twisted nematic liquid crystal displays. , 2004, , .		0
240	<title>Simple method for multiplexing channels in a Fourier optical processor</title>. , 2004, 5622, 1434.		0
241	Simple Jones Method for describing Modulation Properties of Reflective Liquid Crystal Spatial Light Modulators. AIP Conference Proceedings, 2006, , .	0.3	0
242	Two applications of liquid crystal displays in diffractive optics under polychromatic illumination. , 2006, , .		0
243	Two-dimensional method for surface determination by optical deflectometry. , 2007, , .		0
244	Test images of a sector star versus radial and axial merit functions. Proceedings of SPIE, 2008, , .	0.8	0
245	Two Dimensional integration methods in polar coordinates system to measure the surface topography by optical deflectometry. AIP Conference Proceedings, 2008, , .	0.3	0
246	Analysis of polarization vortices generated from a polarization diffractive mask. , 2008, , .		0
247	Influence of the incident angle in the performance of LCoS displays. Proceedings of SPIE, 2008, , .	0.8	0
248	Complete Stokes polarimeters based on liquid crystal displays. Proceedings of SPIE, 2010, , .	0.8	0
249	Enhancement of a PALCoS display efficiency by reducing the influence of different non-desired phenomena. Proceedings of SPIE, 2011, , .	0.8	0
250	Study of polarimeters based on liquid crystal panels. Proceedings of SPIE, 2011, , .	0.8	0
251	Some applications of liquid crystal panels in diffractive optics. Proceedings of SPIE, 2011, , .	0.8	0
252	Study of stokes polarimeters based on a single twisted nematic liquid crystal panel. , 2011, , .		0

#	Article	IF	Citations
253	Teaching Fraunhofer diffraction via experimental and simulated images in the laboratory. Proceedings of SPIE, 2012, , .	0.8	0
254	Programmable color tuning of a multiline laser by means of a twisted nematic liquid crystal display. Applied Optics, 2012, 51, 6368.	0.9	0
255	Diffraction efficiency considerations and experimental realization for adaptive phase gratings with liquid crystal panels. , 2012, , .		0
256	Building polarimeters with liquid crystal cells. , 2013, , .		0
257	Snapshot polarimeter based on the conical refraction phenomenon. Proceedings of SPIE, 2015, , .	0.8	0
258	In-line digital holography with double knife edge. , 2015, , .		0
259	Single biaxial crystal based polarimeters. , 2016, , .		0
260	Snapshot Stokes polarimeters based on a single biaxial crystal. , 2017, , .		0
261	Double-sideband filter for digital holography. Proceedings of SPIE, 2017, , .	0.8	0
262	Multiplexing structured illumination in spatial light modulators to achieve superresolution. Optica Pura Y Aplicada, 2013, 46, 165-171.	0.0	0
263	Comparison of Two Methods to Design Computer Generated Holograms of Discrete Points Objects. , 2014, , 563-566.		0
264	Non Ripple-Effect Discrete Fourier Integration Method. , 2014, , 297-300.		0
265	<title>Transverse and axial response of super-Gaussian rings</title>. , 1999, , .		0
266	Optics LAB as a base for transdisciplinary knowledge between Art and Science. , 2021, , .		0
267	Organic tissue recognition through polarimetric-based algorithm. , 2022, , .		0