

Claudio Iemmi

List of Publications by Year in descending order

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92
papers

1,639
citations

279798

23
h-index

315739

38
g-index

92
all docs

92
docs citations

92
times ranked

766
citing authors

#	ARTICLE	IF	CITATIONS
1	Time fluctuations of the phase modulation in a liquid crystal on silicon display: characterization and effects in diffractive optics. <i>Optics Express</i> , 2008, 16, 16711.	3.4	155
2	Quantitative prediction of the modulation behavior of twisted nematic liquid crystal displays based on a simple physical model. <i>Optical Engineering</i> , 2001, 40, 2558.	1.0	137
3	Optimization and performance criteria of a Stokes polarimeter based on two variable retarders. <i>Optics Express</i> , 2010, 18, 9815.	3.4	98
4	Mueller-Stokes characterization and optimization of a liquid crystal on silicon display showing depolarization. <i>Optics Express</i> , 2008, 16, 1669.	3.4	80
5	Characterization of edge effects in twisted nematic liquid crystal displays. <i>Optical Engineering</i> , 2000, 39, 3301.	1.0	73
6	Modulation light efficiency of diffractive lenses displayed in a restricted phase-mostly modulation display. <i>Applied Optics</i> , 2004, 43, 6278.	2.1	60
7	Optical encryption using phase-shifting interferometry in a joint transform correlator. <i>Optics Letters</i> , 2006, 31, 2562.	3.3	55
8	Influence of the incident angle in the performance of Liquid Crystal on Silicon displays. <i>Optics Express</i> , 2009, 17, 8491.	3.4	52
9	Programmable apodizer to compensate chromatic aberration effects using a liquid crystal spatial light modulator. <i>Optics Express</i> , 2005, 13, 716.	3.4	43
10	Achromatic diffractive lens written onto a liquid crystal display. <i>Optics Letters</i> , 2006, 31, 392.	3.3	42
11	Preparing arbitrary pure states of spatial qubits with a single phase-only spatial light modulator. <i>Optics Letters</i> , 2013, 38, 4762.	3.3	41
12	The minimum Euclidean distance principle applied to improve the modulation diffraction efficiency in digitally controlled spatial light modulators. <i>Optics Express</i> , 2010, 18, 10581.	3.4	40
13	Depth of focus increase by multiplexing programmable diffractive lenses. <i>Optics Express</i> , 2006, 14, 10207.	3.4	39
14	Programmable axial apodizing and hyperresolving amplitude filters with a liquid-crystal spatial light modulator. <i>Optics Letters</i> , 1999, 24, 628.	3.3	38
15	Amplitude apodizers encoded onto Fresnel lenses implemented on a phase-only spatial light modulator. <i>Applied Optics</i> , 2001, 40, 2316.	2.1	38
16	Anamorphic and spatial frequency dependent phase modulation on liquid crystal displays. Optimization of the modulation diffraction efficiency. <i>Optics Express</i> , 2005, 13, 2111.	3.4	37
17	Optical simulation of quantum algorithms using programmable liquid-crystal displays. <i>Physical Review A</i> , 2004, 69, .	2.5	35
18	Combined Mueller and Jones matrix method for the evaluation of the complex modulation in a liquid-crystal-on-silicon display. <i>Optics Letters</i> , 2008, 33, 627.	3.3	35

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19	Jones matrix treatment for optical Fourier processors with structured polarization. Optics Express, 2011, 19, 4583.	3.4	34
20	Time-resolved Mueller matrix analysis of a liquid crystal on silicon display. Applied Optics, 2008, 47, 4267.	2.1	33
21	Tailoring the depth of focus for optical imaging systems using a Fourier transform approach. Optics Letters, 2007, 32, 844.	3.3	29
22	Stable, quasi-stable and unstable physicochemical hydrodynamic flows in thin-layer cell electrodeposition. Electrochimica Acta, 2006, 51, 3058-3065.	5.2	27
23	Digital holography with a point diffraction interferometer. Optics Express, 2005, 13, 1885.	3.4	25
24	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
25	Optimization, tolerance analysis and implementation of a Stokes polarimeter based on the conical refraction phenomenon. Optics Express, 2015, 23, 5636.	3.4	22
26	Optical encoding of color three-dimensional correlation. Optics Communications, 2002, 209, 35-43.	2.1	20
27	Electrical origin and compensation for two sources of degradation of the spatial frequency response exhibited by liquid crystal displays. Optical Engineering, 2007, 46, 114001.	1.0	16
28	Determination of any pure spatial qudits from a minimum number of measurements by phase-stepping interferometry. Physical Review A, 2017, 96, .	2.5	16
29	Optimized generation of spatial qudits by using a pure phase spatial light modulator. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 225504.	1.5	14
30	LCoS display phase self-calibration method based on diffractive lens schemes. Optics and Lasers in Engineering, 2018, 106, 147-154.	3.8	14
31	Inherent apodization of lenses encoded on liquid-crystal spatial light modulators. Applied Optics, 2000, 39, 6034.	2.1	13
32	Evaluation and correction of aberrations in an optical correlator by phase-shifting interferometry. Optics Letters, 2003, 28, 1117.	3.3	13
33	Optical simulation of the quantum Hadamard operator. Optics Communications, 2006, 268, 340-345.	2.1	13
34	Point diffraction interferometer with a liquid crystal monopixel. Optics Express, 2013, 21, 8116.	3.4	13
35	Multiple feature extraction by using simultaneous wavelet transforms. Journal of Optics, 2003, 5, 425-431.	1.5	11
36	Inline digital holographic movie based on a double-sideband filter. Optics Letters, 2015, 40, 4142.	3.3	11

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37	Convergent optical correlator alignment based on frequency filtering. <i>Applied Optics</i> , 2002, 41, 1505.	2.1	10
38	Table top nanopatterning with extreme ultraviolet laser illumination. <i>Microelectronic Engineering</i> , 2007, 84, 721-724.	2.4	10
39	Anamorphic zoom system based on liquid crystal displays. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	1.9	10
40	Measuring soap black films by phase shifting interferometry. <i>Measurement Science and Technology</i> , 1994, 5, 900-903.	2.6	9
41	Binary polarization pupil filter: Theoretical analysis and experimental realization with a liquid crystal display. <i>Optics Communications</i> , 2006, 264, 63-69.	2.1	8
42	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. <i>Optics Express</i> , 2015, 23, 18080.	3.4	8
43	Mueller matrix polarimeter based on twisted nematic liquid crystal devices. <i>Applied Optics</i> , 2020, 59, 8098.	1.8	8
44	Set of 4 observables to determine any pure qudit state. <i>Optics Letters</i> , 2019, 44, 2558.	3.3	8
45	Joint transform correlator architecture with a single LCTV operating in phase-mostly mode. <i>Optics Communications</i> , 1998, 151, 101-109.	2.1	7
46	Scanning mechanism based on a programmable liquid crystal display. <i>Optics Communications</i> , 2004, 232, 107-113.	2.1	7
47	Bounding the relative errors associated with a complete Stokes polarimeter. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 75.	1.5	7
48	Generalized q -plates and alternative kinds of vector and vortex beams. <i>Physical Review A</i> , 2019, 100, .	2.5	7
49	Error analysis and compensation for a discrete dual rotating retarder Mueller matrix polarimeter. <i>Applied Optics</i> , 2020, 59, 6368.	1.8	7
50	Phase-only photorefractive joint transform correlator. <i>Optics Communications</i> , 2002, 209, 255-263.	2.1	6
51	Multiplexed lenses written onto a liquid crystal display to increase depth of focus. , 2006, , .		6
52	Ghost imaging with white light speckle patterns. <i>Optik</i> , 2013, 124, 6212-6215.	2.9	6
53	Method based on the double sideband technique for the dynamic tracking of micrometric particles. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 065603.	2.2	6
54	Microparticle Manipulation and Imaging through a Self-Calibrated Liquid Crystal on Silicon Display. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2310.	2.5	6

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55	Characterizing d-dimensional quantum channels by means of quantum process tomography. Optics Letters, 2018, 43, 4398.	3.3	6
56	Wavefront imaging by using an inline holographic microscopy system based on a double-sideband filter. Optics and Lasers in Engineering, 2019, 113, 71-76.	3.8	6
57	Polarization imaging with enhanced spatial resolution. Optics Communications, 2015, 338, 95-100.	2.1	5
58	General compressor for ultrashort pulses with nonlinear chirp. Optics Letters, 1991, 16, 1704.	3.3	4
59	Pattern recognition with a phase-shifting interferometric correlator. Discrimination-capability enhancement. Applied Physics B: Lasers and Optics, 1997, 64, 331-338.	2.2	4
60	Polarization vortices generation by diffraction from a four quadrant polarization mask. Optics Communications, 2007, 276, 222-230.	2.1	4
61	Fraunhofer diffraction patterns generated by mixed Cantor gratings. Optics Communications, 1994, 112, 1-8.	2.1	3
62	Multichannel correlation by color multiplexing. Optics Communications, 1999, 166, 173-180.	2.1	3
63	Parallel classification of multiple objects using a phase-only multichannel optical correlator. Optical Engineering, 2003, 42, 2354.	1.0	2
64	Encoding 3D correlation in an optical processor. Optics Communications, 2005, 256, 279-287.	2.1	2
65	The assessment of phase only filters in imaging systems by the classical optical merit functions. , 2008, , ,		2
66	Modulation diffraction efficiency of spatial light modulators. , 2011, , ,		2
67	Phase-measurement interferometry as a simulation of optimal quantum-state tomography. Optik, 2013, 124, 5548-5552.	2.9	2
68	Image enhancement by spatial frequency post-processing of images obtained with pupil filters. Optics Communications, 2016, 380, 21-27.	2.1	2
69	Multiple quasi-perfect vector vortex beams with arbitrary 3D position on focus. Applied Optics, 2022, 61, 5926.	1.8	2
70	Polarization diffractive elements displayed with liquid crystal spatial light modulators. , 2006, , ,		1
71	Variable waveplate-based polarimeter for polarimetric metrology. , 2009, , ,		1
72	Study of Liquid Crystal on Silicon Displays for Their Application in Digital Holography. , 0, , ,		1

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73	Conditional purity and quantum correlation measures in two qubit mixed states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 215501.	1.5	1
74	Orbital Angular Momentum Tuning Using a Phase Only Parallel Aligned LCoS Display. Optik, 2020, 212, 164619.	2.9	1
75	Validity of the product rule and its impact on the accuracy of a Mueller matrix polarimeter. Applied Optics, 2021, 60, 2736.	1.8	1
76	Self-addressed diffractive lens schemes for the characterization of LCoS displays. , 2018, , .		1
77	Determination of any pure spatial qudit from $4d \hat{\sim} 3$ projective measurements. , 2018, , .		1
78	Correction of aberrations in an optical correlator by using it as a point diffraction interferometer. , 2004, , .		0
79	Simple Jones Method for describing Modulation Properties of Reflective Liquid Crystal Spatial Light Modulators. AIP Conference Proceedings, 2006, , .	0.4	0
80	Two applications of liquid crystal displays in diffractive optics under polychromatic illumination. , 2006, , .		0
81	Test images of a sector star versus radial and axial merit functions. Proceedings of SPIE, 2008, , .	0.8	0
82	A new method for three-dimensional tracking using a liquid crystal on silicon (LCoS). Journal of Optics, 2008, 10, 104001.	1.5	0
83	Analysis of polarization vortices generated from a polarization diffractive mask. , 2008, , .		0
84	Complete Stokes polarimeters based on liquid crystal displays. Proceedings of SPIE, 2010, , .	0.8	0
85	Enhancement of a PALCoS display efficiency by reducing the influence of different non-desired phenomena. Proceedings of SPIE, 2011, , .	0.8	0
86	Study of polarimeters based on liquid crystal panels. Proceedings of SPIE, 2011, , .	0.8	0
87	Some applications of liquid crystal panels in diffractive optics. Proceedings of SPIE, 2011, , .	0.8	0
88	Study of stokes polarimeters based on a single twisted nematic liquid crystal panel. , 2011, , .		0
89	Snapshot polarimeter based on the conical refraction phenomenon. Proceedings of SPIE, 2015, , .	0.8	0
90	In-line digital holography with double knife edge. , 2015, , .		0

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91	Double-sideband filter for digital holography. Proceedings of SPIE, 2017, , .	0.8	0
92	Determination of spatial quantum states by using point diffraction interferometry. Journal of Optics (United Kingdom), 2020, 22, 115201.	2.2	0