

# 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	Multiple quasi-perfect vector vortex beams with arbitrary 3D position on focus. Applied Optics, 2022, 61, 5926.	1.8	2
2	Validity of the product rule and its impact on the accuracy of a Mueller matrix polarimeter. Applied Optics, 2021, 60, 2736.	1.8	1
3	Orbital Angular Momentum Tuning Using a Phase Only Parallel Aligned LCoS Display. Optik, 2020, 212, 164619.	2.9	1
4	Error analysis and compensation for a discrete dual rotating retarder Mueller matrix polarimeter. Applied Optics, 2020, 59, 6368.	1.8	7
5	Mueller matrix polarimeter based on twisted nematic liquid crystal devices. Applied Optics, 2020, 59, 8098.	1.8	8
6	Determination of spatial quantum states by using point diffraction interferometry. Journal of Optics (United Kingdom), 2020, 22, 115201.	2.2	0
7	Generalized $q$ -plates and alternative kinds of vector and vortex beams. Physical Review A, 2019, 100, .	2.5	7
8	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
9	Set of $4d-3$ observables to determine any pure qudit state. Optics Letters, 2019, 44, 2558.	3.3	8
10	LCoS display phase self-calibration method based on diffractive lens schemes. Optics and Lasers in Engineering, 2018, 106, 147-154.	3.8	14
11	Microparticle Manipulation and Imaging through a Self-Calibrated Liquid Crystal on Silicon Display. Applied Sciences (Switzerland), 2018, 8, 2310.	2.5	6
12	Characterizing $d$ -dimensional quantum channels by means of quantum process tomography. Optics Letters, 2018, 43, 4398.	3.3	6
13	Self-addressed diffractive lens schemes for the characterization of LCoS displays. , 2018, , .		1
14	Determination of any pure spatial qudit from $4d-3$ projective measurements. , 2018, , .		1
15	Double-sideband filter for digital holography. Proceedings of SPIE, 2017, , .	0.8	0
16	Determination of any pure spatial qudits from a minimum number of measurements by phase-stepping interferometry. Physical Review A, 2017, 96, .	2.5	16
17	Method based on the double sideband technique for the dynamic tracking of micrometric particles. Journal of Optics (United Kingdom), 2016, 18, 065603.	2.2	6
18	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

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19	Image enhancement by spatial frequency post-processing of images obtained with pupil filters. Optics Communications, 2016, 380, 21-27.	2.1	2
20	Optimization, tolerance analysis and implementation of a Stokes polarimeter based on the conical refraction phenomenon. Optics Express, 2015, 23, 5636.	3.4	22
21	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. Optics Express, 2015, 23, 18080.	3.4	8
22	Snapshot polarimeter based on the conical refraction phenomenon. Proceedings of SPIE, 2015, , .	0.8	0
23	In-line digital holography with double knife edge. , 2015, , .		0
24	Inline digital holographic movie based on a double-sideband filter. Optics Letters, 2015, 40, 4142.	3.3	11
25	Polarization imaging with enhanced spatial resolution. Optics Communications, 2015, 338, 95-100.	2.1	5
26	Bounding the relative errors associated with a complete Stokes polarimeter. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 75.	1.5	7
27	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
28	Ghost imaging with white light speckle patterns. Optik, 2013, 124, 6212-6215.	2.9	6
29	Phase-measurement interferometry as a simulation of optimal quantum-state tomography. Optik, 2013, 124, 5548-5552.	2.9	2
30	Preparing arbitrary pure states of spatial qudits with a single phase-only spatial light modulator. Optics Letters, 2013, 38, 4762.	3.3	41
31	Point diffraction interferometer with a liquid crystal monapixel. Optics Express, 2013, 21, 8116.	3.4	13
32	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
33	Jones matrix treatment for optical Fourier processors with structured polarization. Optics Express, 2011, 19, 4583.	3.4	34
34	Enhancement of a PALCoS display efficiency by reducing the influence of different non-desired phenomena. Proceedings of SPIE, 2011, , .	0.8	0
35	Study of polarimeters based on liquid crystal panels. Proceedings of SPIE, 2011, , .	0.8	0
36	Some applications of liquid crystal panels in diffractive optics. Proceedings of SPIE, 2011, , .	0.8	0

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37	Modulation diffraction efficiency of spatial light modulators. , 2011, , .		2
38	Study of stokes polarimeters based on a single twisted nematic liquid crystal panel. , 2011, , .		0
39	Complete Stokes polarimeters based on liquid crystal displays. Proceedings of SPIE, 2010, , .	0.8	0
40	Optimization and performance criteria of a Stokes polarimeter based on two variable retarders. Optics Express, 2010, 18, 9815.	3.4	98
41	The minimum Euclidean distance principle applied to improve the modulation diffraction efficiency in digitally controlled spatial light modulators. Optics Express, 2010, 18, 10581.	3.4	40
42	Influence of the incident angle in the performance of Liquid Crystal on Silicon displays. Optics Express, 2009, 17, 8491.	3.4	52
43	Variable waveplate-based polarimeter for polarimetric metrology. , 2009, , .		1
44	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.	3.3	35
45	Time-resolved Mueller matrix analysis of a liquid crystal on silicon display. Applied Optics, 2008, 47, 4267.	2.1	33
46	Mueller-Stokes characterization and optimization of a liquid crystal on silicon display showing depolarization. Optics Express, 2008, 16, 1669.	3.4	80
47	Time fluctuations of the phase modulation in a liquid crystal on silicon display: characterization and effects in diffractive optics. Optics Express, 2008, 16, 16711.	3.4	155
48	Test images of a sector star versus radial and axial merit functions. Proceedings of SPIE, 2008, , .	0.8	0
49	A new method for three-dimensional tracking using a liquid crystal on silicon (LCoS). Journal of Optics, 2008, 10, 104001.	1.5	0
50	The assessment of phase only filters in imaging systems by the classical optical merit functions. , 2008, , .		2
51	Analysis of polarization vortices generated from a polarization diffractive mask. , 2008, , .		0
52	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
53	Tailoring the depth of focus for optical imaging systems using a Fourier transform approach. Optics Letters, 2007, 32, 844.	3.3	29
54	Polarization vortices generation by diffraction from a four quadrant polarization mask. Optics Communications, 2007, 276, 222-230.	2.1	4

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55	Table top nanopatterning with extreme ultraviolet laser illumination. <i>Microelectronic Engineering</i> , 2007, 84, 721-724.	2.4	10
56	Simple Jones Method for describing Modulation Properties of Reflective Liquid Crystal Spatial Light Modulators. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
57	Achromatic diffractive lens written onto a liquid crystal display. <i>Optics Letters</i> , 2006, 31, 392.	3.3	42
58	Optical encryption using phase-shifting interferometry in a joint transform correlator. <i>Optics Letters</i> , 2006, 31, 2562.	3.3	55
59	Depth of focus increase by multiplexing programmable diffractive lenses. <i>Optics Express</i> , 2006, 14, 10207.	3.4	39
60	Polarization diffractive elements displayed with liquid crystal spatial light modulators. , 2006, , .		1
61	Two applications of liquid crystal displays in diffractive optics under polychromatic illumination. , 2006, , .		0
62	Multiplexed lenses written onto a liquid crystal display to increase depth of focus. , 2006, , .		6
63	Stable, quasi-stable and unstable physicochemical hydrodynamic flows in thin-layer cell electrodeposition. <i>Electrochimica Acta</i> , 2006, 51, 3058-3065.	5.2	27
64	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
65	Optical simulation of the quantum Hadamard operator. <i>Optics Communications</i> , 2006, 268, 340-345.	2.1	13
66	Encoding 3D correlation in an optical processor. <i>Optics Communications</i> , 2005, 256, 279-287.	2.1	2
67	Programmable apodizer to compensate chromatic aberration effects using a liquid crystal spatial light modulator. <i>Optics Express</i> , 2005, 13, 716.	3.4	43
68	Digital holography with a point diffraction interferometer. <i>Optics Express</i> , 2005, 13, 1885.	3.4	25
69	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
70	Scanning mechanism based on a programmable liquid crystal display. <i>Optics Communications</i> , 2004, 232, 107-113.	2.1	7
71	Optical simulation of quantum algorithms using programmable liquid-crystal displays. <i>Physical Review A</i> , 2004, 69, .	2.5	35
72	Modulation light efficiency of diffractive lenses displayed in a restricted phase-mostly modulation display. <i>Applied Optics</i> , 2004, 43, 6278.	2.1	60

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73	Correction of aberrations in an optical correlator by using it as a point diffraction interferometer. , 2004, , .		0
74	Evaluation and correction of aberrations in an optical correlator by phase-shifting interferometry. Optics Letters, 2003, 28, 1117.	3.3	13
75	Parallel classification of multiple objects using a phase-only multichannel optical correlator. Optical Engineering, 2003, 42, 2354.	1.0	2
76	Multiple feature extraction by using simultaneous wavelet transforms. Journal of Optics, 2003, 5, 425-431.	1.5	11
77	Convergent optical correlator alignment based on frequency filtering. Applied Optics, 2002, 41, 1505.	2.1	10
78	Optical encoding of color three-dimensional correlation. Optics Communications, 2002, 209, 35-43.	2.1	20
79	Phase-only photorefractive joint transform correlator. Optics Communications, 2002, 209, 255-263.	2.1	6
80	Quantitative prediction of the modulation behavior of twisted nematic liquid crystal displays based on a simple physical model. Optical Engineering, 2001, 40, 2558.	1.0	137
81	Amplitude apodizers encoded onto Fresnel lenses implemented on a phase-only spatial light modulator. Applied Optics, 2001, 40, 2316.	2.1	38
82	Characterization of edge effects in twisted nematic liquid crystal displays. Optical Engineering, 2000, 39, 3301.	1.0	73
83	Inherent apodization of lenses encoded on liquid-crystal spatial light modulators. Applied Optics, 2000, 39, 6034.	2.1	13
84	Multichannel correlation by color multiplexing. Optics Communications, 1999, 166, 173-180.	2.1	3
85	Programmable axial apodizing and hyperresolving amplitude filters with a liquid-crystal spatial light modulator. Optics Letters, 1999, 24, 628.	3.3	38
86	Joint transform correlator architecture with a single LCTV operating in phase-mostly mode. Optics Communications, 1998, 151, 101-109.	2.1	7
87	Pattern recognition with a phase-shifting interferometric correlator. Discrimination-capability enhancement. Applied Physics B: Lasers and Optics, 1997, 64, 331-338.	2.2	4
88	Measuring soap black films by phase shifting interferometry. Measurement Science and Technology, 1994, 5, 900-903.	2.6	9
89	Fraunhofer diffraction patterns generated by mixed Cantor gratings. Optics Communications, 1994, 112, 1-8.	2.1	3
90	General compressor for ultrashort pulses with nonlinear chirp. Optics Letters, 1991, 16, 1704.	3.3	4

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91	Anamorphic zoom system based on liquid crystal displays. Journal of the European Optical Society-Rapid Publications, 0, 4, .	1.9	10
92	Study of Liquid Crystal on Silicon Displays for Their Application in Digital Holography. , 0, , .		1