

# Andres Marquez

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

165  
papers

2,160  
citations

26  
h-index

38  
g-index

231  
ext. papers

2,685  
ext. citations

2.4  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
165	Time fluctuations of the phase modulation in a liquid crystal on silicon display: characterization and effects in diffractive optics. <i>Optics Express</i> , <b>2008</b> , 16, 16711-22	3.3	111
164	Quantitative prediction of the modulation behavior of twisted nematic liquid crystal displays based on a simple physical model. <i>Optical Engineering</i> , <b>2001</b> , 40, 2558	1.1	104
163	Analytical approximations for the period of a nonlinear pendulum. <i>European Journal of Physics</i> , <b>2006</b> , 27, 539-551	0.8	79
162	Application of the homotopy perturbation method to the nonlinear pendulum. <i>European Journal of Physics</i> , <b>2007</b> , 28, 93-104	0.8	63
161	Application of Heun homotopy perturbation method to conservative truly nonlinear oscillators. <i>Chaos, Solitons and Fractals</i> , <b>2008</b> , 37, 770-780	9.3	61
160	Characterization of edge effects in twisted nematic liquid crystal displays. <i>Optical Engineering</i> , <b>2000</b> , 39, 3301	1.1	60
159	Mueller-Stokes characterization and optimization of a liquid crystal on silicon display showing depolarization. <i>Optics Express</i> , <b>2008</b> , 16, 1669-85	3.3	54
158	Physical and effective optical thickness of holographic diffraction gratings recorded in photopolymers. <i>Optics Express</i> , <b>2005</b> , 13, 1939-47	3.3	51
157	Modulation light efficiency of diffractive lenses displayed in a restricted phase-modulation display. <i>Applied Optics</i> , <b>2004</b> , 43, 6278-84	1.7	48
156	In dark analysis of PVA/AA materials at very low spatial frequencies: phase modulation evolution and diffusion estimation. <i>Optics Express</i> , <b>2009</b> , 17, 18279-91	3.3	44
155	Influence of the incident angle in the performance of liquid crystal on silicon displays. <i>Optics Express</i> , <b>2009</b> , 17, 8491-505	3.3	39
154	3 Dimensional analysis of holographic photopolymers based memories. <i>Optics Express</i> , <b>2005</b> , 13, 3543-57	3.3	36
153	First-harmonic diffusion-based model applied to a polyvinyl-alcohol/acrylamide-based photopolymer. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2003</b> , 20, 2052	1.7	36
152	Averaged Stokes polarimetry applied to evaluate retardance and flicker in PA-LCoS devices. <i>Optics Express</i> , <b>2014</b> , 22, 15064-74	3.3	35
151	Programmable apodizer to compensate chromatic aberration effects using a liquid crystal spatial light modulator. <i>Optics Express</i> , <b>2005</b> , 13, 716-30	3.3	33
150	LCoS SLM Study and Its Application in Wavelength Selective Switch. <i>Photonics</i> , <b>2017</b> , 4, 22	2.2	32
149	The minimum Euclidean distance principle applied to improve the modulation diffraction efficiency in digitally controlled spatial light modulators. <i>Optics Express</i> , <b>2010</b> , 18, 10581-93	3.3	31

148	Achromatic diffractive lens written onto a liquid crystal display. <i>Optics Letters</i> , <b>2006</b> , 31, 392-4	3	30
147	Higher accuracy analytical approximations to a nonlinear oscillator with discontinuity by He's homotopy perturbation method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2008</b> , 372, 2010-2016	2.3	29
146	Characterization of a PVA/acrylamide photopolymer. Influence of a cross-linking monomer in the final characteristics of the hologram. <i>Optics Communications</i> , <b>2003</b> , 224, 27-34	2	29
145	Amplitude Apodizers Encoded onto Fresnel Lenses Implemented on a Phase-Only Spatial Light Modulator. <i>Applied Optics</i> , <b>2001</b> , 40, 2316-22	1.7	29
144	Programmable axial apodizing and hyperresolving amplitude filters with a liquid-crystal spatial light modulator. <i>Optics Letters</i> , <b>1999</b> , 24, 628-30	3	29
143	Retardance and flicker modeling and characterization of electro-optic linear retarders by averaged Stokes polarimetry. <i>Optics Letters</i> , <b>2014</b> , 39, 1011-4	3	26
142	Combined Mueller and Jones matrix method for the evaluation of the complex modulation in a liquid-crystal-on-silicon display. <i>Optics Letters</i> , <b>2008</b> , 33, 627-9	3	26
141	Edge-enhanced imaging with polyvinyl alcohol/acrylamide photopolymer gratings. <i>Optics Letters</i> , <b>2003</b> , 28, 1510-2	3	26
140	Interferometric phase measurements for polarization eigenvectors in twisted nematic liquid crystal spatial light modulators. <i>Optics Communications</i> , <b>2000</b> , 181, 1-6	2	26
139	3-dimensional characterization of thick grating formation in PVA/AA based photopolymer. <i>Optics Express</i> , <b>2006</b> , 14, 5121-8	3.3	25
138	Compact LCOSBLM Based Polarization Pattern Beam Generator. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 2047-2055	4	24
137	Time-resolved Mueller matrix analysis of a liquid crystal on silicon display. <i>Applied Optics</i> , <b>2008</b> , 47, 4267-74	4	24
136	Direct analysis of monomer diffusion times in polyvinyl/acrylamide materials. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 073306	3.4	24
135	Wavelength dependence of polarimetric and phase-shift characterization of a liquid crystal on silicon display. <i>Journal of the European Optical Society-Rapid Publications</i> , <b>2008</b> , 3,	2.5	24
134	Anamorphic and spatial frequency dependent phase modulation on liquid crystal displays. Optimization of the modulation diffraction efficiency. <i>Optics Express</i> , <b>2005</b> , 13, 2111-9	3.3	24
133	Effect of a depth attenuated refractive index profile in the angular responses of the efficiency of higher orders in volume gratings recorded in a PVA/acrylamide photopolymer. <i>Optics Communications</i> , <b>2004</b> , 233, 311-322	2	23
132	High environmental compatibility photopolymers compared to PVA/AA based materials at zero spatial frequency limit. <i>Optical Materials</i> , <b>2011</b> , 33, 531-537	3.3	22
131	Approximate expressions for the period of a simple pendulum using a Taylor series expansion. <i>European Journal of Physics</i> , <b>2011</b> , 32, 1303-1310	0.8	21

130	Electrical dependencies of optical modulation capabilities in digitally addressed parallel aligned liquid crystal on silicon devices. <i>Optical Engineering</i> , <b>2014</b> , 53, 067104	1.1	18
129	An Improved 'Heuristic' Approximation for the Period of a Nonlinear Pendulum: Linear Analysis of a Classical Nonlinear Problem. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , <b>2007</b> , 8,	1.8	18
128	Biophotopol: A Sustainable Photopolymer for Holographic Data Storage Applications. <i>Materials</i> , <b>2012</b> , 5, 772-783	3.5	17
127	Phase measurements of a twisted nematic liquid crystal spatial light modulator with a common-path interferometer. <i>Optics Communications</i> , <b>2001</b> , 190, 129-133	2	17
126	Predictive capability of average Stokes polarimetry for simulation of phase multilevel elements onto LCoS devices. <i>Applied Optics</i> , <b>2015</b> , 54, 1379-86	1.7	16
125	Approximate solutions for the nonlinear pendulum equation using a rational harmonic representation. <i>Computers and Mathematics With Applications</i> , <b>2012</b> , 64, 1602-1611	2.7	16
124	Real-time interferometric characterization of a polyvinyl alcohol based photopolymer at the zero spatial frequency limit. <i>Applied Optics</i> , <b>2007</b> , 46, 7506-12	1.7	16
123	Roadmap on holography. <i>Journal of Optics (United Kingdom)</i> , <b>2020</b> , 22, 123002	1.7	16
122	Surface relief model for photopolymers without cover plating. <i>Optics Express</i> , <b>2011</b> , 19, 10896-906	3.3	15
121	Hybrid Ternary Modulation Applied to Multiplexing Holograms in Photopolymers for Data Page Storage. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 776-783	4	15
120	Multiplexed holographic data page storage on a polyvinyl alcohol/acrylamide photopolymer memory. <i>Applied Optics</i> , <b>2008</b> , 47, 4448-56	0.2	15
119	Holographic waveguides in photopolymers. <i>Optics Express</i> , <b>2019</b> , 27, 827-840	3.3	15
118	Hologram multiplexing in acrylamide hydrophilic photopolymers. <i>Optics Communications</i> , <b>2008</b> , 281, 1354-1357	2	14
117	Characterization of polyvinyl alcohol/acrylamide holographic memories with a first-harmonic diffusion model. <i>Applied Optics</i> , <b>2005</b> , 44, 6205-10	1.7	14
116	Two diffusion photopolymer for sharp diffractive optical elements recording. <i>Optics Letters</i> , <b>2015</b> , 40, 3221-4	3	13
115	Spatial-phase-modulation-based study of polyvinyl-alcohol/acrylamide photopolymers in the low spatial frequency range. <i>Applied Optics</i> , <b>2009</b> , 48, 4403-13	0.2	13
114	Analysis of PVA/AA based photopolymers at the zero spatial frequency limit using interferometric methods. <i>Applied Optics</i> , <b>2008</b> , 47, 2557-63	1.7	13
113	Electrical origin and compensation for two sources of degradation of the spatial frequency response exhibited by liquid crystal displays. <i>Optical Engineering</i> , <b>2007</b> , 46, 114001	1.1	13

112	Analysis of Fabry-Berot interference effects on the modulation properties of liquid crystal displays. <i>Optics Communications</i> , <b>2006</b> , 265, 84-94	2	13
111	Phasor analysis of eigenvectors generated in liquid-crystal displays. <i>Applied Optics</i> , <b>2002</b> , 41, 4579-84	1.7	13
110	Fully complex synthetic discriminant functions written onto phase-only modulators. <i>Applied Optics</i> , <b>2000</b> , 39, 5965-70	1.7	13
109	Extended linear polarimeter to measure retardance and flicker: application to liquid crystal on silicon devices in two working geometries. <i>Optical Engineering</i> , <b>2014</b> , 53, 014105	1.1	12
108	Relief diffracted elements recorded on absorbent photopolymers. <i>Optics Express</i> , <b>2012</b> , 20, 11218-31	3.3	12
107	Asymptotic representations of the period for the nonlinear oscillator. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 299, 403-408	3.9	12
106	Exploring binary and ternary modulations on a PA-LCoS device for holographic data storage in a PVA/AA photopolymer. <i>Optics Express</i> , <b>2015</b> , 23, 20459-79	3.3	11
105	Diffractive lenses recorded in absorbent photopolymers. <i>Optics Express</i> , <b>2016</b> , 24, 1559-72	3.3	11
104	Volume Holograms in Photopolymers: Comparison between Analytical and Rigorous Theories. <i>Materials</i> , <b>2012</b> , 5, 1373-1388	3.5	11
103	Performance analysis of the FDTD method applied to holographic volume gratings: Multi-core CPU versus GPU computing. <i>Computer Physics Communications</i> , <b>2013</b> , 184, 469-479	4.2	10
102	Linearity in the response of photopolymers as optical recording media. <i>Optics Express</i> , <b>2013</b> , 21, 10995-1008	3.9	10
101	Overmodulation Control in the Optimization of a H-PDLC Device with Ethyl Eosin as Dye. <i>International Journal of Polymer Science</i> , <b>2013</b> , 2013, 1-8	2.4	10
100	Generation of diffractive optical elements onto a photopolymer using a liquid crystal display <b>2010</b> ,		10
99	Accurate control of a liquid-crystal display to produce a homogenized Fourier transform for holographic memories. <i>Optics Letters</i> , <b>2007</b> , 32, 2511-3	3	10
98	Characterization of the retardance of a wave plate to increase the robustness of amplitude-only and phase-only modulations of a liquid crystal display. <i>Journal of Modern Optics</i> , <b>2005</b> , 52, 633-650	1.1	10
97	LCoS display phase self-calibration method based on diffractive lens schemes. <i>Optics and Lasers in Engineering</i> , <b>2018</b> , 106, 147-154	4.6	9
96	Peristrophic multiplexed holograms recorded in a low toxicity photopolymer. <i>Optical Materials Express</i> , <b>2017</b> , 7, 133	2.6	9
95	Acceleration of split-field finite difference time-domain method for anisotropic media by means of graphics processing unit computing. <i>Optical Engineering</i> , <b>2013</b> , 53, 011005	1.1	9

94	Influence of the temporal fluctuations phenomena on the ECB LCoS performance <b>2009</b> ,		9
93	Application of He's Homotopy Perturbation Method to the Relativistic (An)harmonic Oscillator. I: Comparison between Approximate and Exact Frequencies. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , <b>2007</b> , 8,	1.8	9
92	Diffusion-based model to predict the conservation of gratings recorded in poly(vinyl alcohol)-acrylamide photopolymer. <i>Applied Optics</i> , <b>2003</b> , 42, 5839-45	1.7	9
91	An analysis of the classical Doppler effect. <i>European Journal of Physics</i> , <b>2003</b> , 24, 497-505	0.8	9
90	Production of computer-generated phase holograms using graphic devices: application to correlation filters. <i>Optical Engineering</i> , <b>2000</b> , 39, 1612	1.1	9
89	Inherent apodization of lenses encoded on liquid-crystal spatial light modulators. <i>Applied Optics</i> , <b>2000</b> , 39, 6034-9	1.7	9
88	Effective angular and wavelength modeling of parallel aligned liquid crystal devices. <i>Optics and Lasers in Engineering</i> , <b>2015</b> , 74, 114-121	4.6	8
87	Analysis of holographic polymer-dispersed liquid crystals (HPDLCs) for tunable low frequency diffractive optical elements recording. <i>Optical Materials</i> , <b>2018</b> , 76, 295-301	3.3	8
86	Monomer diffusion in sustainable photopolymers for diffractive optics applications. <i>Optical Materials</i> , <b>2011</b> , 33, 1626-1629	3.3	8
85	Characterization of the anamorphic and spatial frequency dependent phenomenon in Liquid Crystal on Silicon displays. <i>Journal of the European Optical Society-Rapid Publications</i> , 6,	2.5	8
84	Biophotopolig energetic sensitivity improved in 300th layers by tuning the recording wavelength. <i>Optical Materials</i> , <b>2016</b> , 52, 111-115	3.3	7
83	Multi-GPU and multi-CPU accelerated FDTD scheme for vibroacoustic applications. <i>Computer Physics Communications</i> , <b>2015</b> , 191, 43-51	4.2	6
82	Tensorial split-field finite-difference time-domain approach for second- and third-order nonlinear materials. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 1711	1.7	6
81	ANALYSIS OF REFLECTION GRATINGS BY MEANS OF A MATRIX METHOD APPROACH. <i>Progress in Electromagnetics Research</i> , <b>2011</b> , 118, 167-183	3.8	6
80	Comparison of simplified theories in the analysis of the diffraction efficiency in surface-relief gratings <b>2012</b> ,		6
79	Characterization of a parallel aligned liquid crystal on silicon and its application on a Shack-Hartmann sensor <b>2010</b> ,		6
78	Pyromethene dye and non-redox initiator system in a hydrophilic binder photopolymer. <i>Optical Materials</i> , <b>2007</b> , 30, 227-230	3.3	6
77	Analysis of Second and Third Diffracted Orders in Volume Diffraction Gratings Recorded on Photopolymers. <i>Physica Scripta</i> , <b>2005</b> , 58	2.6	6

76	Copying low spatial frequency diffraction gratings in photopolymer as phase holograms. <i>Journal of Modern Optics</i> , <b>2000</b> , 47, 1089-1097	1.1	6
75	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. <i>Optics Express</i> , <b>2015</b> , 23, 18080-91	3.3	5
74	Split-field finite-difference time-domain method for second-harmonic generation in two-dimensionally periodic structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 664	1.7	5
73	Additives Type Schiff's Base as Modifiers of the Optical Response in Holographic Polymer-Dispersed Liquid Crystals. <i>Polymers</i> , <b>2017</b> , 9,	4.5	5
72	Performance analysis of SSE and AVX instructions in multi-core CPUs and GPU computing on FDTD scheme for solid and fluid vibration problems. <i>Journal of Supercomputing</i> , <b>2014</b> , 70, 514-526	2.5	5
71	Diffractive and interferometric methods to characterize photopolymers with liquid crystal molecules as holographic recording material. <i>Journal of the European Optical Society-Rapid Publications</i> , <b>2012</b> , 7,	2.5	5
70	Development of a unified FDTD-FEM library for electromagnetic analysis with CPU and GPU computing. <i>Journal of Supercomputing</i> , <b>2013</b> , 64, 28-37	2.5	5
69	An experiment in heat conduction using hollow cylinders. <i>European Journal of Physics</i> , <b>2011</b> , 32, 1065-1075	3.5	5
68	Effect of the incorporation of N,N'-methylene-bis-acrylamide on the multiplexing of holograms in a hydrophilic acrylamide photopolymer. <i>Optics Communications</i> , <b>2006</b> , 268, 133-137	2	5
67	Combining average molecular tilt and flicker for management of depolarized light in parallel-aligned liquid crystal devices for broadband and wide-angle illumination. <i>Optics Express</i> , <b>2019</b> , 27, 5238-5252	3.3	5
66	Blazed Gratings Recorded in Absorbent Photopolymers. <i>Materials</i> , <b>2016</b> , 9,	3.5	5
65	Influence of index matching on AA/PVA photopolymers for low spatial frequency recording. <i>Applied Optics</i> , <b>2015</b> , 54, 3132-40	0.2	4
64	Simplified physical modeling of parallel-aligned liquid crystal devices at highly non-linear tilt angle profiles. <i>Optics Express</i> , <b>2018</b> , 26, 12723-12741	3.3	4
63	Experimental Conditions to Obtain Photopolymerization Induced Phase Separation Process in Liquid Crystal-Photopolymer Composite Materials under Laser Exposure. <i>International Journal of Polymer Science</i> , <b>2014</b> , 2014, 1-5	2.4	4
62	Model of low spatial frequency diffractive elements recorded in photopolymers during and after recording. <i>Optical Materials</i> , <b>2014</b> , 38, 46-52	3.3	4
61	Analysis of the fabrication of diffractive optical elements in photopolymers <b>2013</b> ,		4
60	Characterization and analysis of LCoS displays: application to diffractive optics <b>2009</b> ,		4
59	Analysis of periodic anisotropic media by means of split-field FDTD method and GPU computing <b>2012</b> ,		4

58	Optimization of a holographic memory setup using an LCD and a PVA-based photopolymer. <i>Optik</i> , <b>2010</b> , 121, 151-158	2.5	4
57	Thick phase holographic gratings recorded on BB-640 and PFG-01 silver halide materials. <i>Journal of Optics</i> , <b>2003</b> , 5, S183-S188		4
56	Analytical modeling of blazed gratings on two-dimensional pixelated liquid crystal on silicon devices. <i>Optical Engineering</i> , <b>2020</b> , 59, 1	1.1	4
55	Influence of temporal averaging in the performance of a rotating retarder imaging Stokes polarimeter. <i>Optics Express</i> , <b>2020</b> , 28, 10981-11000	3.3	4
54	Misalignment error analysis in polychromatic division of focal plane Stokes polarimeters. <i>OSA Continuum</i> , <b>2019</b> , 2, 1565	1.4	4
53	Static and dynamic effects of flicker in phase multilevel elements on LCoS devices <b>2015</b> ,		3
52	Accuracy analysis of simplified and rigorous numerical methods applied to binary nanopatterning gratings in non-paraxial domain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2013</b> , 377, 2245-2250	2.3	3
51	Modeling Diffractive Lenses Recording in Environmentally Friendly Photopolymer. <i>Polymers</i> , <b>2017</b> , 9,	4.5	3
50	Classical polarimetric method revisited to analyse the modulation capabilities of parallel aligned liquid crystal on silicon displays <b>2012</b> ,		3
49	Complex Diffractive Optical Elements Stored in Photopolymers. <i>Polymers</i> , <b>2019</b> , 11,	4.5	3
48	Numerical Analysis of H-PDLC Using the Split-Field Finite-Difference Time-Domain Method. <i>Polymers</i> , <b>2018</b> , 10,	4.5	3
47	Parallel aligned liquid crystal on silicon display based optical set-up for the generation of polarization spatial distributions <b>2015</b> ,		2
46	PVA/AA photopolymers and PA-LCoS devices combined for holographic data storage <b>2016</b> ,		2
45	Influence of the set-up on the recording of diffractive optical elements into photopolymers <b>2014</b> ,		2
44	Binary Intensity Modulation and Hybrid Ternary Modulation Applied to Multiplexing Objects Using Holographic Data Storage on a PVA/AA Photopolymer. <i>International Journal of Polymer Science</i> , <b>2014</b> , 2014, 1-8	2.4	2
43	A dynamic beam splitter using polymer dispersed liquid crystal materials <b>2012</b> ,		2
42	Zero Spatial Frequency Limit: Method to Characterize Photopolymers as Optical Recording Material. <i>Research Letters in Physics</i> , <b>2012</b> , 2012, 1-9		2
41	Multiplexing holograms for data page storage as a holographic memory in a PVA/AA photopolymer <b>2008</b> ,		2



40	Characterization and optimization of liquid crystal displays for data storage applications <b>2007</b> ,		2
39	Low spatial frequency characterization of holographic recording materials applied to correlation. <i>Journal of Optics</i> , <b>2003</b> , 5, S175-S182		2
38	Maximum effective optical thickness of the gratings recorded in photopolymers <b>2005</b> ,		2
37	Computational split-field finite-difference time-domain evaluation of simplified tilt-angle models for parallel-aligned liquid-crystal devices. <i>Optical Engineering</i> , <b>2018</b> , 57, 1	1.1	2
36	Dynamic microparticle manipulation through light structures generated by a self-calibrated Liquid Crystal on Silicon display <b>2018</b> ,		2
35	Unitary matrix approach for a precise voltage dependent characterization of reflective liquid crystal devices by average Stokes polarimetry. <i>Optics Letters</i> , <b>2020</b> , 45, 5732-5735	3	2
34	Shrinkage measurement for holographic recording materials <b>2017</b> ,		1
33	Study of the index matching for different photopolymers <b>2015</b> ,		1
32	Anamorphic and Local Characterization of a Holographic Data Storage System with a Liquid-Crystal on Silicon Microdisplay as Data Pager. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 986	2.6	1
31	Influence of Thickness on the Holographic Parameters of H-PDLC Materials. <i>International Journal of Polymer Science</i> , <b>2014</b> , 2014, 1-7	2.4	1
30	Different applications of liquid crystal panels <b>2013</b> ,		1
29	Analysis of the diffraction efficiency of reflection and transmission holographic gratings by means of a parallel FDTD approach <b>2011</b> ,		1
28	Comparison of photopolymers for optical data storage applications and relief diffractive optical elements recorded onto photopolymers <b>2011</b> ,		1
27	Performance improvement of high-thickness photopolymers for holographic data storage applications <b>2011</b> ,		1
26	Multiplexing holograms for data page storage using a LCD as hybrid ternary modulation <b>2009</b> ,		1
25	Analysis of the geometry of a holographic memory setup <b>2012</b> ,		1
24	Optimization of a holographic memory setup using a LCD and a PVA based photopolymer <b>2007</b> ,		1
23	Multiplexing holograms in an acrylamide photopolymer <b>2006</b> ,		1

22	Grating matrix method to describe a volume transmission diffraction grating. <i>Optics Communications</i> , <b>2006</b> , 266, 122-128	2	1
21	Review of operating modes for twisted nematic liquid crystal displays for applications in optical image processing <b>2003</b> ,		1
20	Optimization of a PVA/acrylamide material for the recording of multiple diffraction gratings <b>2004</b> ,		1
19	Holographic Gratings with Different Spatial Frequencies Recorded on BB-640 Bleached Silver Halide Emulsions Using Reversal Bleaches. <i>Materials Science Forum</i> , <b>2005</b> , 480-481, 543-548	0.4	1
18	Programmable amplitude apodizers in liquid crystal spatial light modulators <b>2001</b> ,		1
17	Polarimetric and diffractive evaluation of 3.74 micron pixel-size LCoS in the telecommunications C-band <b>2017</b> ,		1
16	Self-addressed diffractive lens schemes for the characterization of LCoS displays <b>2018</b> ,		1
15	Characterization of the Liquid Crystal Display Modulation. Optimization for Some Applications. <i>Acta Physica Polonica A</i> , <b>2002</b> , 101, 189-200	0.6	1
14	Blazed grating theory to minimize the non-idealities in LCoS devices <b>2019</b> ,		1
13	SF-FDTD analysis of a predictive physical model for parallel aligned liquid crystal devices <b>2017</b> ,		1
12	Accurate, Efficient and Rigorous Numerical Analysis of 3D H-PDLC Gratings. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
11	Homography estimation from a single-point correspondence using template matching and particle swarm optimization.. <i>Applied Optics</i> , <b>2022</b> , 61, D63-D74	1.7	0
10	Analysis of amplitude and phase coupling in volume holography <b>2006</b> , 6252, 338		
9	Effect of the glass substrate on the efficiency of the different orders that propagate in a transmission sinusoidal diffraction grating. <i>Journal of Modern Optics</i> , <b>2006</b> , 53, 1403-1410	1.1	
8	3-dimensional analysis of holographic memories based on photopolymers using finite differences method <b>2006</b> , 6187, 307		
7	Thin and thick diffraction gratings: Thin matrix decomposition method. <i>Optik</i> , <b>2004</b> , 115, 385-392	2.5	
6	Depth attenuated refractive index profiles in holographic gratings recorded in photopolymer materials <b>2004</b> , 5456, 449		
5	Space-variant image processing with volume holography <b>2004</b> , 5456, 315		

- 4 Complementary approaches with and without a Fourier plane for optical image processing education **2005**, 9664, 124
- 3 Simultaneous encoding of amplitude apodizers and Fresnel lenses in spatial light modulators **2001**, 4419, 692
- 2 Validation of Fresnel-Kirchhoff Integral Method for the Study of Volume Dielectric Bodies. *Applied Sciences (Switzerland)*, **2021**, 11, 3800 2.6
- 1 Polarimetric analysis of cross-talk phenomena induced by the pixelation in PA-LCoS devices. *Optics and Laser Technology*, **2022**, 152, 108125 4.2