Andres Marquez

List of Publications by Year in descending order

231 papers	3,037 citations	159585 30 h-index	223800 46 g-index
232 all docs	232 docs citations	232 times ranked	1098 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. Optics Express, 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. Optical Engineering, 2001, 40, 2558.	1.0	137
3	Analytical approximations for the period of a nonlinear pendulum. European Journal of Physics, 2006, 27, 539-551.	0.6	90
4	Application of Heâ€™s homotopy perturbation method to conservative truly nonlinear oscillators. Chaos, Solitons and Fractals, 2008, 37, 770-780.	5.1	85
5	Mueller-Stokes characterization and optimization of a liquid crystal on silicon display showing depolarization. Optics Express, 2008, 16, 1669.	3.4	80
6	Characterization of edge effects in twisted nematic liquid crystal displays. Optical Engineering, 2000, 39, 3301.	1.0	73
7	Application of the homotopy perturbation method to the nonlinear pendulum. European Journal of Physics, 2007, 28, 93-104.	0.6	71
8	Physical and effective optical thickness of holographic diffraction gratings recorded in photopolymers. Optics Express, 2005, 13, 1939.	3.4	66
9	Modulation light efficiency of diffractive lenses displayed in a restricted phase-mostly modulation display. Applied Optics, 2004, 43, 6278.	2.1	60
10	Roadmap on holography. Journal of Optics (United Kingdom), 2020, 22, 123002.	2.2	54
11	Influence of the incident angle in the performance of Liquid Crystal on Silicon displays. Optics Express, 2009, 17, 8491.	3.4	52
12	In dark analysis of PVA/AA materials at very low spatial frequencies: phase modulation evolution and diffusion estimation. Optics Express, 2009, 17, 18279.	3.4	52
13	First-harmonic diffusion-based model applied to a polyvinyl-alcoholâ€“acrylamide-based photopolymer. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2052.	2.1	50
14	3 Dimensional analysis of holographic photopolymers based memories. Optics Express, 2005, 13, 3543.	3.4	50
15	LCoS SLM Study and Its Application in Wavelength Selective Switch. Photonics, 2017, 4, 22.	2.0	50
16	Programmable apodizer to compensate chromatic aberration effects using a liquid crystal spatial light modulator. Optics Express, 2005, 13, 716.	3.4	43
17	Achromatic diffractive lens written onto a liquid crystal display. Optics Letters, 2006, 31, 392.	3.3	42
18	Averaged Stokes polarimetry applied to evaluate retardance and flicker in PA-LCoS devices. Optics Express, 2014, 22, 15064.	3.4	42

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19	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
20	Programmable axial apodizing and hyperresolving amplitude filters with a liquid-crystal spatial light modulator. Optics Letters, 1999, 24, 628.	3.3	38
21	Amplitude apodizers encoded onto Fresnel lenses implemented on a phase-only spatial light modulator. Applied Optics, 2001, 40, 2316.	2.1	38
22	Characterization of a PVA/acrylamide photopolymer. Influence of a cross-linking monomer in the final characteristics of the hologram. Optics Communications, 2003, 224, 27-34.	2.1	38
23	Anamorphic and spatial frequency dependent phase modulation on liquid crystal displays. Optimization of the modulation diffraction efficiency. Optics Express, 2005, 13, 2111.	3.4	37
24	Retardance and flicker modeling and characterization of electro-optic linear retarders by averaged Stokes polarimetry. Optics Letters, 2014, 39, 1011.	3.3	37
25	Holographic waveguides in photopolymers. Optics Express, 2019, 27, 827.	3.4	36
26	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
27	Edge-enhanced imaging with polyvinyl alcohol /acrylamide photopolymer gratings. Optics Letters, 2003, 28, 1510.	3.3	34
28	Time-resolved Mueller matrix analysis of a liquid crystal on silicon display. Applied Optics, 2008, 47, 4267.	2.1	33
29	Interferometric phase measurements for polarization eigenvectors in twisted nematic liquid crystal spatial light modulators. Optics Communications, 2000, 181, 1-6.	2.1	32
30	Biophotopol: A Sustainable Photopolymer for Holographic Data Storage Applications. Materials, 2012, 5, 772-783.	2.9	31
31	Compact LCOSâ€“SLM Based Polarization Pattern Beam Generator. Journal of Lightwave Technology, 2015, 33, 2047-2055.	4.6	31
32	Higher accuracy analytical approximations to a nonlinear oscillator with discontinuity by He's homotopy perturbation method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2010-2016.	2.1	30
33	Direct analysis of monomer diffusion times in polyvinyl/acrylamide materials. Applied Physics Letters, 2008, 92, .	3.3	30
34	High environmental compatibility photopolymers compared to PVA/AA based materials at zero spatial frequency limit. Optical Materials, 2011, 33, 531-537.	3.6	30
35	3-dimensional characterization of thick grating formation in PVA/AA based photopolymer. Optics Express, 2006, 14, 5121.	3.4	29
36	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, .	1.9	29

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37	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. Optics Communications, 2004, 233, 311-322.	2.1	28
38	Characterization of polyvinyl alcohol/acrylamide holographic memories with a first-harmonic diffusion model. Applied Optics, 2005, 44, 6205.	2.1	27
39	An Improved 'Heuristic' Approximation for the Period of a Nonlinear Pendulum: Linear Analysis of a Classical Nonlinear Problem. International Journal of Nonlinear Sciences and Numerical Simulation, 2007, 8, .	1.0	24
40	Approximate expressions for the period of a simple pendulum using a Taylor series expansion. European Journal of Physics, 2011, 32, 1303-1310.	0.6	24
41	Surface relief model for photopolymers without cover plating. Optics Express, 2011, 19, 10896.	3.4	24
42	Electrical dependencies of optical modulation capabilities in digitally addressed parallel aligned liquid crystal on silicon devices. Optical Engineering, 2014, 53, 067104.	1.0	24
43	Predictive capability of average Stokes polarimetry for simulation of phase multilevel elements onto LCoS devices. Applied Optics, 2015, 54, 1379.	1.8	24
44	Real-time interferometric characterization of a polyvinyl alcohol based photopolymer at the zero spatial frequency limit. Applied Optics, 2007, 46, 7506.	2.1	23
45	Approximate solutions for the nonlinear pendulum equation using a rational harmonic representation. Computers and Mathematics With Applications, 2012, 64, 1602-1611.	2.7	23
46	Extended linear polarimeter to measure retardance and flicker: application to liquid crystal on silicon devices in two working geometries. Optical Engineering, 2014, 53, 014105.	1.0	23
47	Phase measurements of a twisted nematic liquid crystal spatial light modulator with a common-path interferometer. Optics Communications, 2001, 190, 129-133.	2.1	22
48	Hybrid Ternary Modulation Applied to Multiplexing Holograms in Photopolymers for Data Page Storage. Journal of Lightwave Technology, 2010, 28, 776-783.	4.6	22
49	Two diffusion photopolymer for sharp diffractive optical elements recording. Optics Letters, 2015, 40, 3221.	3.3	22
50	Diffractive lenses recorded in absorbent photopolymers. Optics Express, 2016, 24, 1559.	3.4	22
51	Fully complex synthetic discriminant functions written onto phase-only modulators. Applied Optics, 2000, 39, 5965.	2.1	21
52	Multiplexed holographic data page storage on a polyvinyl alcohol/acrylamide photopolymer memory. Applied Optics, 2008, 47, 4448.	2.1	21
53	Exploring binary and ternary modulations on a PA-LCoS device for holographic data storage in a PVA/AA photopolymer. Optics Express, 2015, 23, 20459.	3.4	21
54	Peristrophic multiplexed holograms recorded in a low toxicity photopolymer. Optical Materials Express, 2017, 7, 133.	3.0	20

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55	An analysis of the classical Doppler effect. European Journal of Physics, 2003, 24, 497-505.	0.6	19
56	Analysis of Fabryâ€“Perot interference effects on the modulation properties of liquid crystal displays. Optics Communications, 2006, 265, 84-94.	2.1	19
57	Analysis of PVA/AA based photopolymers at the zero spatial frequency limit using interferometric methods. Applied Optics, 2008, 47, 2557.	2.1	19
58	Relief diffracted elements recorded on absorbent photopolymers. Optics Express, 2012, 20, 11218.	3.4	19
59	Application of He's Homotopy Perturbation Method to the Relativistic (An)harmonic Oscillator. I: Comparison between Approximate and Exact Frequencies. International Journal of Nonlinear Sciences and Numerical Simulation, 2007, 8, .	1.0	17
60	Asymptotic representations of the period for the nonlinear oscillator. Journal of Sound and Vibration, 2007, 299, 403-408.	3.9	17
61	Spatial-phase-modulation-based study of polyvinyl-alcohol/acrylamide photopolymers in the low spatial frequency range. Applied Optics, 2009, 48, 4403.	2.1	17
62	Generation of diffractive optical elements onto a photopolymer using a liquid crystal display. , 2010, , .		17
63	Linearity in the response of photopolymers as optical recording media. Optics Express, 2013, 21, 10995.	3.4	17
64	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
65	Hologram multiplexing in acrylamide hydrophilic photopolymers. Optics Communications, 2008, 281, 1354-1357.	2.1	16
66	Volume Holograms in Photopolymers: Comparison between Analytical and Rigorous Theories. Materials, 2012, 5, 1373-1388.	2.9	16
67	Biophotopolâ€™s energetic sensitivity improved in 300Î¼m layers by tuning the recording wavelength. Optical Materials, 2016, 52, 111-115.	3.6	16
68	Overmodulation Control in the Optimization of a H-PDLC Device with Ethyl Eosin as Dye. International Journal of Polymer Science, 2013, 2013, 1-8.	2.7	15
69	Phasor analysis of eigenvectors generated in liquid-crystal displays. Applied Optics, 2002, 41, 4579.	2.1	14
70	Accurate control of a liquid-crystal display to produce a homogenized Fourier transform for holographic memories. Optics Letters, 2007, 32, 2511.	3.3	14
71	Influence of the temporal fluctuations phenomena on the ECB LCoS performance. , 2009, , .		14
72	LCoS display phase self-calibration method based on diffractive lens schemes. Optics and Lasers in Engineering, 2018, 106, 147-154.	3.8	14

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73	Inherent apodization of lenses encoded on liquid-crystal spatial light modulators. Applied Optics, 2000, 39, 6034.	2.1	13
74	Diffusion-based model to predict the conservation of gratings recorded in poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (alcoh	2.1	13
75	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.	1.3	13
76	Production of computer-generated phase holograms using graphic devices: application to correlation filters. Optical Engineering, 2000, 39, 1612.	1.0	12
77	Comparison of simplified theories in the analysis of the diffraction efficiency in surface-relief gratings. , 2012, , .		12
78	Effective angular and wavelength modeling of parallel aligned liquid crystal devices. Optics and Lasers in Engineering, 2015, 74, 114-121.	3.8	12
79	Analysis of holographic polymer-dispersed liquid crystals (HPDLCs) for tunable low frequency diffractive optical elements recording. Optical Materials, 2018, 76, 295-301.	3.6	12
80	Performance analysis of the FDTD method applied to holographic volume gratings: Multi-core CPU versus GPU computing. Computer Physics Communications, 2013, 184, 469-479.	7.5	11
81	Acceleration of split-field finite difference time-domain method for anisotropic media by means of graphics processing unit computing. Optical Engineering, 2013, 53, 011005.	1.0	11
82	Combining average molecular tilt and flicker for management of depolarized light in parallel-aligned liquid crystal devices for broadband and wide-angle illumination. Optics Express, 2019, 27, 5238.	3.4	11
83	Influence of temporal averaging in the performance of a rotating retarder imaging Stokes polarimeter. Optics Express, 2020, 28, 10981.	3.4	11
84	Pyrromethene dye and non-redox initiator system in a hydrophilic binder photopolymer. Optical Materials, 2007, 30, 227-230.	3.6	10
85	Blazed Gratings Recorded in Absorbent Photopolymers. Materials, 2016, 9, 195.	2.9	10
86	ANALYSIS OF REFLECTION GRATINGS BY MEANS OF A MATRIX METHOD APPROACH. Progress in Electromagnetics Research, 2011, 118, 167-183.	4.4	9
87	Monomer diffusion in sustainable photopolymers for diffractive optics applications. Optical Materials, 2011, 33, 1626-1629.	3.6	9
88	Influence of index matching on AA/PVA photopolymers for low spatial frequency recording. Applied Optics, 2015, 54, 3132.	2.1	9
89	Copying low spatial frequency diffraction gratings in photopolymer as phase holograms. Journal of Modern Optics, 2000, 47, 1089-1097.	1.3	8
90	Tensorial split-field finite-difference time-domain approach for second- and third-order nonlinear materials. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1711.	2.1	8

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91	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. Optics Express, 2015, 23, 18080.	3.4	8
92	Complex Diffractive Optical Elements Stored in Photopolymers. Polymers, 2019, 11, 1920.	4.5	8
93	Characterization of the anamorphic and spatial frequency dependent phenomenon in Liquid Crystal on Silicon displays. Journal of the European Optical Society-Rapid Publications, 0, 6, .	1.9	8
94	Unitary matrix approach for a precise voltage dependent characterization of reflective liquid crystal devices by average Stokes polarimetry. Optics Letters, 2020, 45, 5732.	3.3	8
95	Classical polarimetric method revisited to analyse the modulation capabilities of parallel aligned liquid crystal on silicon displays. , 2012, , .		7
96	Diffractive and interferometric methods to characterize photopolymers with liquid crystal molecules as holographic recording material. Journal of the European Optical Society-Rapid Publications, 0, 7, .	1.9	7
97	Analytical modeling of blazed gratings on two-dimensional pixelated liquid crystal on silicon devices. Optical Engineering, 2020, 59, 1.	1.0	7
98	Homography estimation from a single-point correspondence using template matching and particle swarm optimization. Applied Optics, 2022, 61, D63.	1.8	7
99	Analysis of Second and Third Diffracted Orders in Volume Diffraction Gratings Recorded on Photopolymers. Physica Scripta, 2005, , 58.	2.5	6
100	Effect of the incorporation of N,Nâ€²-methylene-bis-acrylamide on the multiplexing of holograms in a hydrophilic acrylamide photopolymer. Optics Communications, 2006, 268, 133-137.	2.1	6
101	Characterization of a parallel aligned liquid crystal on silicon and its application on a Shack-Hartmann sensor. , 2010, , .		6
102	Optimization of a holographic memory setup using an LCD and a PVA-based photopolymer. Optik, 2010, 121, 151-158.	2.9	6
103	An experiment in heat conduction using hollow cylinders. European Journal of Physics, 2011, 32, 1065-1075.	0.6	6
104	Development of a unified FDTD-FEM library for electromagnetic analysis with CPU and GPU computing. Journal of Supercomputing, 2013, 64, 28-37.	3.6	6
105	Performance analysis of SSE and AVX instructions in multi-core CPUs and GPU computing on FDTD scheme for solid and fluid vibration problems. Journal of Supercomputing, 2014, 70, 514-526.	3.6	6
106	Multi-GPU and multi-CPU accelerated FDTD scheme for vibroacoustic applications. Computer Physics Communications, 2015, 191, 43-51.	7.5	6
107	Special Issue on Liquid Crystal on Silicon Devices: Modeling and Advanced Spatial Light Modulation Applications. Applied Sciences (Switzerland), 2019, 9, 3049.	2.5	6
108	Thick phase holographic gratings recorded on BB-640 and PFG-01 silver halide materials. Journal of Optics, 2003, 5, S183-S188.	1.5	5

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109	Characterization and analysis of LCoS displays: application to diffractive optics. , 2009, , .		5
110	Analysis of periodic anisotropic media by means of split-field FDTD method and GPU computing. , 2012, , .		5
111	Analysis of the fabrication of diffractive optical elements in photopolymers. Proceedings of SPIE, 2013, , .	0.8	5
112	Model of low spatial frequency diffractive elements recorded in photopolymers during and after recording. Optical Materials, 2014, 38, 46-52.	3.6	5
113	Split-field finite-difference time-domain method for second-harmonic generation in two-dimensionally periodic structures. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 664.	2.1	5
114	Additives Type Schiffâ€™s Base as Modifiers of the Optical Response in Holographic Polymer-Dispersed Liquid Crystals. Polymers, 2017, 9, 298.	4.5	5
115	Simplified physical modeling of parallel-aligned liquid crystal devices at highly non-linear tilt angle profiles. Optics Express, 2018, 26, 12723.	3.4	5
116	Low spatial frequency characterization of holographic recording materials applied to correlation. , 2003, , .		4
117	Characterization and optimization of liquid crystal displays for data storage applications. , 2007, , .		4
118	Accuracy analysis of simplified and rigorous numerical methods applied to binary nanopatterning gratings in non-paraxial domain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2245-2250.	2.1	4
119	Experimental Conditions to Obtain Photopolymerization Induced Phase Separation Process in Liquid Crystal-Photopolymer Composite Materials under Laser Exposure. International Journal of Polymer Science, 2014, 2014, 1-5.	2.7	4
120	Numerical Analysis of H-PDLC Using the Split-Field Finite-Difference Time-Domain Method. Polymers, 2018, 10, 465.	4.5	4
121	Accurate, Efficient and Rigorous Numerical Analysis of 3D H-PDLC Gratings. Materials, 2020, 13, 3725.	2.9	4
122	Misalignment error analysis in polychromatic division of focal plane Stokes polarimeters. OSA Continuum, 2019, 2, 1565.	1.8	4
123	Polarimetric analysis of cross-talk phenomena induced by the pixelation in PA-LCoS devices. Optics and Laser Technology, 2022, 152, 108125.	4.6	4
124	Effective physical optics hands-on experience through the characterization of a CD and a DVD. Proceedings of SPIE, 2005, , .	0.8	3
125	Multiplexing holograms for data page storage as a holographic memory in a PVA/AA photopolymer. Proceedings of SPIE, 2008, , .	0.8	3
126	Zero Spatial Frequency Limit: Method to Characterize Photopolymers as Optical Recording Material. Research Letters in Physics, 2012, 2012, 1-9.	0.2	3

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127	Binary Intensity Modulation and Hybrid Ternary Modulation Applied to Multiplexing Objects Using Holographic Data Storage on a PVA/AA Photopolymer. International Journal of Polymer Science, 2014, 2014, 1-8.	2.7	3
128	Static and dynamic effects of flicker in phase multilevel elements on LCoS devices. , 2015, , .		3
129	Modeling Diffractive Lenses Recording in Environmentally Friendly Photopolymer. Polymers, 2017, 9, 278.	4.5	3
130	Computational split-field finite-difference time-domain evaluation of simplified tilt-angle models for parallel-aligned liquid-crystal devices. Optical Engineering, 2018, 57, 1.	1.0	3
131	Copying low spatial frequency diffraction gratings in photopolymer as phase holograms. Journal of Modern Optics, 2000, 47, 1089-1097.	1.3	2
132	Low spatial frequency characterization of holographic recording materials applied to correlation. Journal of Optics, 2003, 5, S175-S182.	1.5	2
133	Optimization of a PVA/acrylamide material for the recording of multiple diffraction gratings. , 2004, , .		2
134	Analysis of Bragg Diffraction Filters Applied to Image Processing. Physica Scripta, 2005, , 54.	2.5	2
135	Maximum effective optical thickness of the gratings recorded in photopolymers. , 2005, , .		2
136	Multiplexing holograms for data page storage using a LCD as hybrid ternary modulation. Proceedings of SPIE, 2009, , .	0.8	2
137	Modulation diffraction efficiency of spatial light modulators. , 2011, , .		2
138	A dynamic beam splitter using polymer dispersed liquid crystal materials. , 2012, , .		2
139	Influence of the set-up on the recording of diffractive optical elements into photopolymers. , 2014, , .		2
140	Parallel aligned liquid crystal on silicon display based optical set-up for the generation of polarization spatial distributions. , 2015, , .		2
141	PVA/AA photopolymers and PA-LCoS devices combined for holographic data storage. Proceedings of SPIE, 2016, , .	0.8	2
142	Anamorphic and Local Characterization of a Holographic Data Storage System with a Liquid-Crystal on Silicon Microdisplay as Data Pager. Applied Sciences (Switzerland), 2018, 8, 986.	2.5	2
143	Polarimetric and diffractive evaluation of 3.74 micron pixel-size LCoS in the telecommunications C-band. , 2017, , .		2
144	Dynamic microparticle manipulation through light structures generated by a self-calibrated Liquid Crystal on Silicon display. , 2018, , .		2

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145	Characterization of the anamorphic and spatial frequency dependent phenomenon in Liquid Crystal on Silicon displays. Journal of the European Optical Society-Rapid Publications, 0, 6, .	1.9	2
146	<title>Programmable amplitude apodizers in liquid crystal spatial light modulators</title>. , 2001, , .		1
147	Optimization of liquid crystal displays behavior in optical image processing and in diffractive optics. , 2001, , .		1
148	Review of operating modes for twisted nematic liquid crystal displays for applications in optical image processing. , 2003, , .		1
149	Holographic optical elements for Bragg image processing. , 2005, , .		1
150	Finite difference time domain method (FDTD) to predict the efficiencies of the different orders inside a volume grating. , 2005, , .		1
151	Holographic Gratings with Different Spatial Frequencies Recorded on BB-640 Bleached Silver Halide Emulsions Using Reversal Bleaches. Materials Science Forum, 2005, 480-481, 543-548.	0.3	1
152	Multiplexing holograms in an acrylamide photopolymer. , 2006, , .		1
153	<title>3D behaviour of photopolymers as holographic recording material</title>. , 2006, , .		1
154	Grating matrix method to describe a volume transmission diffraction grating. Optics Communications, 2006, 266, 122-128.	2.1	1
155	Optimization of a holographic memory setup using a LCD and a PVA based photopolymer. , 2007, , .		1
156	Variable waveplate-based polarimeter for polarimetric metrology. , 2009, , .		1
157	Analysis of the diffraction efficiency of reflection and transmission holographic gratings by means of a parallel FDTD approach. , 2011, , .		1
158	Comparison of photopolymers for optical data storage applications and relief diffractive optical elements recorded onto photopolymers. Proceedings of SPIE, 2011, , .	0.8	1
159	Study of Liquid Crystal on Silicon Displays for Their Application in Digital Holography. , 0, , .		1
160	Performance improvement of high-thickness photopolymers for holographic data storage applications. Proceedings of SPIE, 2011, , .	0.8	1
161	Corrected coupled-wave theory for non-slanted reflection gratings. , 2011, , .		1
162	Analysis of the geometry of a holographic memory setup. , 2012, , .		1

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163	Analysis of PEA photopolymers at zero spatial frequency limit. Proceedings of SPIE, 2012, , .	0.8	1
164	Super-resolution imaging based on liquid crystal on silicon displays technology. Proceedings of SPIE, 2013, , .	0.8	1
165	Different applications of liquid crystal panels. Proceedings of SPIE, 2013, , .	0.8	1
166	Study of the modulation capabilities of parallel aligned liquid crystal on silicon displays. , 2013, , .		1
167	Influence of Thickness on the Holographic Parameters of H-PDLC Materials. International Journal of Polymer Science, 2014, 2014, 1-7.	2.7	1
168	Averaged Stokes polarimetry applied to characterize parallel-aligned liquid crystal on silicon displays. , 2014, , .		1
169	Influence of the photopolymer properties in the fabrication of diffractive optical elements. , 2014, , .		1
170	Study of the index matching for different photopolymers. , 2015, , .		1
171	Shrinkage measurement for holographic recording materials. , 2017, , .		1
172	Self-addressed diffractive lens schemes for the characterization of LCoS displays. , 2018, , .		1
173	Characterization of the Liquid Crystal Display Modulation. Optimization for Some Applications. Acta Physica Polonica A, 2002, 101, 189-200.	0.5	1
174	SF-FDTD analysis of a predictive physical model for parallel aligned liquid crystal devices. , 2017, , .		1
175	Blazed grating theory to minimize the non-idealities in LCoS devices. , 2019, , .		1
176	3-dimensional modelling of the DOEs formation in PVA/AA photopolymers. , 2020, , .		1
177	Precise-Integration Time-Domain Formulation for Optical Periodic Media. Materials, 2021, 14, 7896.	2.9	1
178	<title>Adapting the input scene and the filter to the operating curves of the modulators in real-time correlators</title>. , 1999, , .		0
179	<title>Fabrication of computer-generated phase holograms using photopolymers as holographic recording material</title>. , 1999, , .		0
180	Optical correlator as a tool for physicists and engineers training in signal processing. , 2000, , .		0

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181	<title>Simultaneous encoding of amplitude apodizers and Fresnel lenses in spatial light modulators</title>. , 2001, 4419, 692.		0
182	Thick phase holographic gratings recorded on Agfa 8E75 HD, BB-640 and PFG-01 red sensitive silver halide materials. , 2003, , .		0
183	Thin and thick diffraction gratings: Thin matrix decomposition method. Optik, 2004, 115, 385-392.	2.9	0
184	Depth attenuated refractive index profiles in holographic gratings recorded in photopolymer materials. , 2004, 5456, 449.		0
185	Space-variant image processing with volume holography. , 2004, 5456, 315.		0
186	Diffraction efficiency of phase-only diffractive elements displayed onto twisted nematic liquid crystal displays. , 2004, , .		0
187	Comparison of electromagnetic theories to predict the efficiencies of the different orders inside a volume grating. , 2004, , .		0
188	Effects in reconstruction of diffraction gratings multiplexed in acrylamide photopolymers. , 2005, , .		0
189	Diffusion parameters estimation of holographic memories based in PVA/acrylamide photopolymer. , 2005, , .		0
190	Operation of liquid-crystal displays for optical computing. , 2005, , .		0
191	Complementary approaches with and without a Fourier plane for optical image processing education. Proceedings of SPIE, 2005, 9664, 124.	0.8	0
192	Simple Jones Method for describing Modulation Properties of Reflective Liquid Crystal Spatial Light Modulators. AIP Conference Proceedings, 2006, , .	0.4	0
193	Effect of the glass substrate on the efficiency of the different orders that propagate in a transmission sinusoidal diffraction grating. Journal of Modern Optics, 2006, 53, 1403-1410.	1.3	0
194	Two applications of liquid crystal displays in diffractive optics under polychromatic illumination. , 2006, , .		0
195	3-dimensional analysis of holographic memories based on photopolymers using finite differences method. , 2006, 6187, 307.		0
196	<title>High thickness acrylamide photopolymer for peristrophic multiplexing</title>. , 2006, , .		0
197	<title>Analysis of amplitude and phase coupling in volume holography</title>. , 2006, 6252, 338.		0
198	Low-cost liquid crystal display optimized as a monopixel coherent modulator. , 2007, , .		0

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199	New trends on photopolymers. Proceedings of SPIE, 2008, , .	0.8	0
200	Real-time interferometric characterization of a PVA based photopolymer. , 2008, , .		0
201	Influence of the incident angle in the performance of LCoS displays. Proceedings of SPIE, 2008, , .	0.8	0
202	Properties of PVA/AA photopolymers at very low spatial frequencies. , 2009, , .		0
203	Initiator system in holographic photopolymer materials. Proceedings of SPIE, 2010, , .	0.8	0
204	New photopolymers with high environmental compatibility: biophotopol compared to PVA/AA materials at zero spatial frequency limit. , 2010, , .		0
205	Analysis, optimization and implementation of a variable retardance based polarimeter. EPJ Web of Conferences, 2010, 5, 06008.	0.3	0
206	Analysis of LCoS displays performance in diffractive optics. EPJ Web of Conferences, 2010, 5, 06004.	0.3	0
207	Enhancement of a PALCoS display efficiency by reducing the influence of different non-desired phenomena. Proceedings of SPIE, 2011, , .	0.8	0
208	Some applications of liquid crystal panels in diffractive optics. Proceedings of SPIE, 2011, , .	0.8	0
209	Reduction of zero-order spatial frequencies by using binary intensity and phase modulations in holographic data storage. , 2011, , .		0
210	Study of the stability in holographic reflection gratings recorded in PVA/AA-based photopolymer. , 2012, , .		0
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