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	Homography estimation from a single-point correspondence using template matching and particle swarm optimization. Applied Optics, 2022, 61, D63.	1.8	7
2	Polarimetric analysis of cross-talk phenomena induced by the pixelation in PA-LCoS devices. Optics and Laser Technology, 2022, 152, 108125.	4.6	4
3	Validation of Fresnelâ€“Kirchhoff Integral Method for the Study of Volume Dielectric Bodies. Applied Sciences (Switzerland), 2021, 11, 3800.	2.5	0
4	Voltage dependence of retardance, flicker, and director angle orientation in reflective liquid crystal devices by average Stokes polarimetry. , 2021, , .		0
5	Modeling liquid crystal on silicon microdisplays for holographic storage and polarization control. , 2021, , .		0
6	Precise-Integration Time-Domain Formulation for Optical Periodic Media. Materials, 2021, 14, 7896.	2.9	1
7	Phase-Shift Optimization in AA/PVA Photopolymers by High-Frequency Pulsed Laser. Polymers, 2020, 12, 1887.	4.5	0
8	Accurate, Efficient and Rigorous Numerical Analysis of 3D H-PDLC Gratings. Materials, 2020, 13, 3725.	2.9	4
9	Roadmap on holography. Journal of Optics (United Kingdom), 2020, 22, 123002.	2.2	54
10	Analytical modeling of blazed gratings on two-dimensional pixelated liquid crystal on silicon devices. Optical Engineering, 2020, 59, 1.	1.0	7
11	Influence of temporal averaging in the performance of a rotating retarder imaging Stokes polarimeter. Optics Express, 2020, 28, 10981.	3.4	11
12	3-dimensional modelling of the DOEs formation in PVA/AA photopolymers. , 2020, , .		1
13	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
14	Special Issue on Liquid Crystal on Silicon Devices: Modeling and Advanced Spatial Light Modulation Applications. Applied Sciences (Switzerland), 2019, 9, 3049.	2.5	6
15	Complex Diffractive Optical Elements Stored in Photopolymers. Polymers, 2019, 11, 1920.	4.5	8
16	Holographic waveguides in photopolymers. Optics Express, 2019, 27, 827.	3.4	36
17	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
18	Misalignment error analysis in polychromatic division of focal plane Stokes polarimeters. OSA Continuum, 2019, 2, 1565.	1.8	4

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19	Study of the imaging characteristics of holographic waveguides. , 2019, , .		0
20	Blazed grating theory to minimize the non-idealities in LCoS devices. , 2019, , .		1
21	Predictive management of polarized light in liquid crystal devices based on average and flicker molecular tilt. , 2019, , .		0
22	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
23	LCoS display phase self-calibration method based on diffractive lens schemes. Optics and Lasers in Engineering, 2018, 106, 147-154.	3.8	14
24	Numerical Analysis of H-PDLC Using the Split-Field Finite-Difference Time-Domain Method. Polymers, 2018, 10, 465.	4.5	4
25	Simplified physical modeling of parallel-aligned liquid crystal devices at highly non-linear tilt angle profiles. Optics Express, 2018, 26, 12723.	3.4	5
26	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
27	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
28	Self-addressed diffractive lens schemes for the characterization of LCoS displays. , 2018, , .		1
29	Dynamic microparticle manipulation through light structures generated by a self-calibrated Liquid Crystal on Silicon display. , 2018, , .		2
30	Anamorphic characterization of a PA-LCoS based holographic data storage system. , 2018, , .		0
31	Versatile simplified physical model for parallel aligned liquid crystal devices. , 2018, , .		0
32	Multiplexed holograms recorded in a low toxicity Biophotopol photopolymer. Proceedings of SPIE, 2017, , .	0.8	0
33	Shrinkage measurement for holographic recording materials. , 2017, , .		1
34	Generation of diffractive optical elements onto photopolymer using liquid crystal on silicon displays. , 2017, , .		0
35	Peristrophic multiplexed holograms recorded in a low toxicity photopolymer. Optical Materials Express, 2017, 7, 133.	3.0	20
36	LCoS SLM Study and Its Application in Wavelength Selective Switch. Photonics, 2017, 4, 22.	2.0	50

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37	Modeling Diffractive Lenses Recording in Environmentally Friendly Photopolymer. Polymers, 2017, 9, 278.	4.5	3
38	Additives Type Schiffâ€™s Base as Modifiers of the Optical Response in Holographic Polymer-Dispersed Liquid Crystals. Polymers, 2017, 9, 298.	4.5	5
39	Polarimetric and diffractive evaluation of 3.74 micron pixel-size LCoS in the telecommunications C-band. , 2017, , .		2
40	Diffractive lenses in biocompatible photopolymers using LCoS. , 2017, , .		0
41	Front Matter: Volume 10395. , 2017, , .		0
42	SF-FDTD analysis of a predictive physical model for parallel aligned liquid crystal devices. , 2017, , .		1
43	Blazed Gratings Recorded in Absorbent Photopolymers. Materials, 2016, 9, 195.	2.9	10
44	Analysis of volume holograms using the technique of Green's tensor. , 2016, , .		0
45	Effective modeling of PA-LCoS devices and application in data storage in photopolymers. , 2016, , .		0
46	Cylindrical diffractive lenses recorded on PVA/AA photopolymers. Proceedings of SPIE, 2016, , .	0.8	0
47	Analysis of holographic data storage using a PA-LCoS device. Proceedings of SPIE, 2016, , .	0.8	0
48	Influence of the spatial frequency on the diffractive optical elements fabrication in PDLCs. , 2016, , .		0
49	PVA/AA photopolymers and PA-LCoS devices combined for holographic data storage. Proceedings of SPIE, 2016, , .	0.8	2
50	Biophotopolâ€™s energetic sensitivity improved in 300Î¼m layers by tuning the recording wavelength. Optical Materials, 2016, 52, 111-115.	3.6	16
51	Diffractive lenses recorded in absorbent photopolymers. Optics Express, 2016, 24, 1559.	3.4	22
52	Front Matter: Volume 9970. Proceedings of SPIE, 2016, , .	0.8	0
53	Multi-GPU and multi-CPU accelerated FDTD scheme for vibroacoustic applications. Computer Physics Communications, 2015, 191, 43-51.	7.5	6
54	Compact LCOSâ€“SLM Based Polarization Pattern Beam Generator. Journal of Lightwave Technology, 2015, 33, 2047-2055.	4.6	31

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55	Influence of index matching on AA/PVA photopolymers for low spatial frequency recording. Applied Optics, 2015, 54, 3132.	2.1	9
56	Predictive capability of average Stokes polarimetry for simulation of phase multilevel elements onto LCoS devices. Applied Optics, 2015, 54, 1379.	1.8	24
57	Interferometric characterization of the structured polarized light beam produced by the conical refraction phenomenon. Optics Express, 2015, 23, 18080.	3.4	8
58	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
59	Effective angular and wavelength modeling of parallel aligned liquid crystal devices. Optics and Lasers in Engineering, 2015, 74, 114-121.	3.8	12
60	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
61	Static and dynamic effects of flicker in phase multilevel elements on LCoS devices. , 2015, , .		3
62	Study of the index matching for different photopolymers. , 2015, , .		1
63	Two diffusion photopolymer for sharp diffractive optical elements recording. Optics Letters, 2015, 40, 3221.	3.3	22
64	Parallel aligned liquid crystal on silicon display based optical set-up for the generation of polarization spatial distributions. , 2015, , .		2
65	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
66	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
67	Influence of Thickness on the Holographic Parameters of H-PDLC Materials. International Journal of Polymer Science, 2014, 2014, 1-7.	2.7	1
68	Averaged Stokes polarimetry applied to characterize parallel-aligned liquid crystal on silicon displays. , 2014, , .		1
69	Front Matter: Volume 9216. , 2014, , .		0
70	Influence of the photopolymer properties in the fabrication of diffractive optical elements. , 2014, , .		1
71	Retardance and flicker modeling and characterization of electro-optic linear retarders by averaged Stokes polarimetry. Optics Letters, 2014, 39, 1011.	3.3	37
72	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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73	Model of low spatial frequency diffractive elements recorded in photopolymers during and after recording. Optical Materials, 2014, 38, 46-52.	3.6	5
74	Electrical dependencies of optical modulation capabilities in digitally addressed parallel aligned liquid crystal on silicon devices. Optical Engineering, 2014, 53, 067104.	1.0	24
75	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
76	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
77	Influence of a bleaching post-exposure treatment in the performance of H-PDLC devices with high electric conductivity. Proceedings of SPIE, 2014, , .	0.8	0
78	Influence of the set-up on the recording of diffractive optical elements into photopolymers. , 2014, , .		2
79	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
80	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
81	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
82	Analysis of the fabrication of diffractive optical elements in photopolymers. Proceedings of SPIE, 2013, , .	0.8	5
83	Linearity in the response of photopolymers as optical recording media. Optics Express, 2013, 21, 10995.	3.4	17
84	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
85	Super-resolution imaging based on liquid crystal on silicon displays technology. Proceedings of SPIE, 2013, , .	0.8	1
86	Different applications of liquid crystal panels. Proceedings of SPIE, 2013, , .	0.8	1
87	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
88	Study of the modulation capabilities of parallel aligned liquid crystal on silicon displays. , 2013, , .		1
89	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
90	Design and optoelectronic evaluation of a holographic polymer dispersed liquid crystal device. Optica Pura Y Aplicada, 2013, 46, 131-136.	0.1	0

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91	Biophotopol: A Sustainable Photopolymer for Holographic Data Storage Applications. Materials, 2012, 5, 772-783.	2.9	31
92	Volume Holograms in Photopolymers: Comparison between Analytical and Rigorous Theories. Materials, 2012, 5, 1373-1388.	2.9	16
93	Analysis of periodic anisotropic media by means of split-field FDTD method and GPU computing. , 2012, , .		5
94	Relief diffracted elements recorded on absorbent photopolymers. Optics Express, 2012, 20, 11218.	3.4	19
95	Zero Spatial Frequency Limit: Method to Characterize Photopolymers as Optical Recording Material. Research Letters in Physics, 2012, 2012, 1-9.	0.2	3
96	Classical polarimetric method revisited to analyse the modulation capabilities of parallel aligned liquid crystal on silicon displays. , 2012, , .		7
97	Analysis of the geometry of a holographic memory setup. , 2012, , .		1
98	Comparison of simplified theories in the analysis of the diffraction efficiency in surface-relief gratings. , 2012, , .		12
99	Study of the stability in holographic reflection gratings recorded in PVA/AA-based photopolymer. , 2012, , .		0
100	Analysis of PEA photopolymers at zero spatial frequency limit. Proceedings of SPIE, 2012, , .	0.8	1
101	Approximate solutions for the nonlinear pendulum equation using a rational harmonic representation. Computers and Mathematics With Applications, 2012, 64, 1602-1611.	2.7	23
102	A dynamic beam splitter using polymer dispersed liquid crystal materials. , 2012, , .		2
103	Analysis of the diffraction efficiency of reflection and transmission holographic gratings by means of a parallel FDTD approach. , 2011, , .		1
104	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
105	Comparison of photopolymers for optical data storage applications and relief diffractive optical elements recorded onto photopolymers. Proceedings of SPIE, 2011, , .	0.8	1
106	Surface relief model for photopolymers without cover plating. Optics Express, 2011, 19, 10896.	3.4	24
107	ANALYSIS OF REFLECTION GRATINGS BY MEANS OF A MATRIX METHOD APPROACH. Progress in Electromagnetics Research, 2011, 118, 167-183.	4.4	9
108	Enhancement of a PALCoS display efficiency by reducing the influence of different non-desired phenomena. Proceedings of SPIE, 2011, , .	0.8	0

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109	Performance improvement of high-thickness photopolymers for holographic data storage applications. Proceedings of SPIE, 2011, , .	0.8	1
110	Some applications of liquid crystal panels in diffractive optics. Proceedings of SPIE, 2011, , .	0.8	0
111	Corrected coupled-wave theory for non-slanted reflection gratings. , 2011, , .		1
112	Monomer diffusion in sustainable photopolymers for diffractive optics applications. Optical Materials, 2011, 33, 1626-1629.	3.6	9
113	High environmental compatibility photopolymers compared to PVA/AA based materials at zero spatial frequency limit. Optical Materials, 2011, 33, 531-537.	3.6	30
114	Modulation diffraction efficiency of spatial light modulators. , 2011, , .		2
115	An experiment in heat conduction using hollow cylinders. European Journal of Physics, 2011, 32, 1065-1075.	0.6	6
116	Reduction of zero-order spatial frequencies by using binary intensity and phase modulations in holographic data storage. , 2011, , .		0
117	Generation of diffractive optical elements onto a photopolymer using a liquid crystal display. , 2010, , .		17
118	Initiator system in holographic photopolymer materials. Proceedings of SPIE, 2010, , .	0.8	0
119	New photopolymers with high environmental compatibility: biophotopol compared to PVA/AA materials at zero spatial frequency limit. , 2010, , .		0
120	Characterization of a parallel aligned liquid crystal on silicon and its application on a Shack-Hartmann sensor. , 2010, , .		6
121	Optimization of a holographic memory setup using an LCD and a PVA-based photopolymer. Optik, 2010, 121, 151-158.	2.9	6
122	Analysis, optimization and implementation of a variable retardance based polarimeter. EPJ Web of Conferences, 2010, 5, 06008.	0.3	0
123	Analysis of LCoS displays performance in diffractive optics. EPJ Web of Conferences, 2010, 5, 06004.	0.3	0
124	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
125	Hybrid Ternary Modulation Applied to Multiplexing Holograms in Photopolymers for Data Page Storage. Journal of Lightwave Technology, 2010, 28, 776-783.	4.6	22
126	Multiplexing holograms for data page storage using a LCD as hybrid ternary modulation. Proceedings of SPIE, 2009, , .	0.8	2

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127	Characterization and analysis of LCoS displays: application to diffractive optics. , 2009, , .		5
128	Properties of PVA/AA photopolymers at very low spatial frequencies. , 2009, , .		0
129	Influence of the incident angle in the performance of Liquid Crystal on Silicon displays. Optics Express, 2009, 17, 8491.	3.4	52
130	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
131	Spatial-phase-modulation-based study of polyvinyl-alcohol/acrylamide photopolymers in the low spatial frequency range. Applied Optics, 2009, 48, 4403.	2.1	17
132	Variable waveplate-based polarimeter for polarimetric metrology. , 2009, , .		1
133	Influence of the temporal fluctuations phenomena on the ECB LCoS performance. , 2009, , .		14
134	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
135	Hologram multiplexing in acrylamide hydrophilic photopolymers. Optics Communications, 2008, 281, 1354-1357.	2.1	16
136	Application of Heâ€™s homotopy perturbation method to conservative truly nonlinear oscillators. Chaos, Solitons and Fractals, 2008, 37, 770-780.	5.1	85
137	New trends on photopolymers. Proceedings of SPIE, 2008, , .	0.8	0
138	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
139	Analysis of PVA/AA based photopolymers at the zero spatial frequency limit using interferometric methods. Applied Optics, 2008, 47, 2557.	2.1	19
140	Time-resolved Mueller matrix analysis of a liquid crystal on silicon display. Applied Optics, 2008, 47, 4267.	2.1	33
141	Multiplexed holographic data page storage on a polyvinyl alcohol/acrylamide photopolymer memory. Applied Optics, 2008, 47, 4448.	2.1	21
142	Mueller-Stokes characterization and optimization of a liquid crystal on silicon display showing depolarization. Optics Express, 2008, 16, 1669.	3.4	80
143	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
144	Real-time interferometric characterization of a PVA based photopolymer. , 2008, , .		0

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145	Multiplexing holograms for data page storage as a holographic memory in a PVA/AA photopolymer. Proceedings of SPIE, 2008, , .	0.8	3
146	Direct analysis of monomer diffusion times in polyvinyl/acrylamide materials. Applied Physics Letters, 2008, 92, .	3.3	30
147	Influence of the incident angle in the performance of LCoS displays. Proceedings of SPIE, 2008, , .	0.8	0
148	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
149	Characterization and optimization of liquid crystal displays for data storage applications. , 2007, , .		4
150	Optimization of a holographic memory setup using a LCD and a PVA based photopolymer. , 2007, , .		1
151	Low-cost liquid crystal display optimized as a monopixel coherent modulator. , 2007, , .		0
152	Accurate control of a liquid-crystal display to produce a homogenized Fourier transform for holographic memories. Optics Letters, 2007, 32, 2511.	3.3	14
153	Real-time interferometric characterization of a polyvinyl alcohol based photopolymer at the zero spatial frequency limit. Applied Optics, 2007, 46, 7506.	2.1	23
154	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
155	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
156	Pyrromethene dye and non-redox initiator system in a hydrophilic binder photopolymer. Optical Materials, 2007, 30, 227-230.	3.6	10
157	Asymptotic representations of the period for the nonlinear oscillator. Journal of Sound and Vibration, 2007, 299, 403-408.	3.9	17
158	Application of the homotopy perturbation method to the nonlinear pendulum. European Journal of Physics, 2007, 28, 93-104.	0.6	71
159	Simple Jones Method for describing Modulation Properties of Reflective Liquid Crystal Spatial Light Modulators. AIP Conference Proceedings, 2006, , .	0.4	0
160	Analytical approximations for the period of a nonlinear pendulum. European Journal of Physics, 2006, 27, 539-551.	0.6	90
161	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
162	Achromatic diffractive lens written onto a liquid crystal display. Optics Letters, 2006, 31, 392.	3.3	42

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163	3-dimensional characterization of thick grating formation in PVA/AA based photopolymer. Optics Express, 2006, 14, 5121.	3.4	29
164	Multiplexing holograms in an acrylamide photopolymer. , 2006, , .		1
165	Two applications of liquid crystal displays in diffractive optics under polychromatic illumination. , 2006, , .		0
166	<title>3D behaviour of photopolymers as holographic recording material</title>. , 2006, , .		1
167	3-dimensional analysis of holographic memories based on photopolymers using finite differences method. , 2006, 6187, 307.		0
168	<title>High thickness acrylamide photopolymer for peristrophic multiplexing</title>. , 2006, , .		0
169	Analysis of Fabryâ€“Perot interference effects on the modulation properties of liquid crystal displays. Optics Communications, 2006, 265, 84-94.	2.1	19
170	Grating matrix method to describe a volume transmission diffraction grating. Optics Communications, 2006, 266, 122-128.	2.1	1
171	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
172	<title>Analysis of amplitude and phase coupling in volume holography</title>. , 2006, 6252, 338.		0
173	Effects in reconstruction of diffraction gratings multiplexed in acrylamide photopolymers. , 2005, , .		0
174	Holographic optical elements for Bragg image processing. , 2005, , .		1
175	Finite difference time domain method (FDTD) to predict the efficiencies of the different orders inside a volume grating. , 2005, , .		1
176	Analysis of Second and Third Diffracted Orders in Volume Diffraction Gratings Recorded on Photopolymers. Physica Scripta, 2005, , 58.	2.5	6
177	Analysis of Bragg Diffraction Filters Applied to Image Processing. Physica Scripta, 2005, , 54.	2.5	2
178	Maximum effective optical thickness of the gratings recorded in photopolymers. , 2005, , .		2
179	Diffusion parameters estimation of holographic memories based in PVA/acrylamide photopolymer. , 2005, , .		0
180	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

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181	Operation of liquid-crystal displays for optical computing. , 2005, , .		0
182	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
183	Complementary approaches with and without a Fourier plane for optical image processing education. Proceedings of SPIE, 2005, 9664, 124.	0.8	0
184	Effective physical optics hands-on experience through the characterization of a CD and a DVD. Proceedings of SPIE, 2005, , .	0.8	3
185	Characterization of polyvinyl alcohol/acrylamide holographic memories with a first-harmonic diffusion model. Applied Optics, 2005, 44, 6205.	2.1	27
186	Programmable apodizer to compensate chromatic aberration effects using a liquid crystal spatial light modulator. Optics Express, 2005, 13, 716.	3.4	43
187	Physical and effective optical thickness of holographic diffraction gratings recorded in photopolymers. Optics Express, 2005, 13, 1939.	3.4	66
188	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
189	3 Dimensional analysis of holographic photopolymers based memories. Optics Express, 2005, 13, 3543.	3.4	50
190	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
191	Thin and thick diffraction gratings: Thin matrix decomposition method. Optik, 2004, 115, 385-392.	2.9	0
192	Depth attenuated refractive index profiles in holographic gratings recorded in photopolymer materials. , 2004, 5456, 449.		0
193	Modulation light efficiency of diffractive lenses displayed in a restricted phase-mostly modulation display. Applied Optics, 2004, 43, 6278.	2.1	60
194	Optimization of a PVA/acrylamide material for the recording of multiple diffraction gratings. , 2004, , .		2
195	Space-variant image processing with volume holography. , 2004, 5456, 315.		0
196	Diffraction efficiency of phase-only diffractive elements displayed onto twisted nematic liquid crystal displays. , 2004, , .		0
197	Comparison of electromagnetic theories to predict the efficiencies of the different orders inside a volume grating. , 2004, , .		0
198	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

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199	Diffusion-based model to predict the conservation of gratings recorded in poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742	2.1	13
200	Edge-enhanced imaging with polyvinyl alcohol /acrylamide photopolymer gratings. Optics Letters, 2003, 28, 1510.	3.3	34
201	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
202	An analysis of the classical Doppler effect. European Journal of Physics, 2003, 24, 497-505.	0.6	19
203	Review of operating modes for twisted nematic liquid crystal displays for applications in optical image processing. , 2003, , .		1
204	Low spatial frequency characterization of holographic recording materials applied to correlation. Journal of Optics, 2003, 5, S175-S182.	1.5	2
205	Thick phase holographic gratings recorded on BB-640 and PFG-01 silver halide materials. Journal of Optics, 2003, 5, S183-S188.	1.5	5
206	Low spatial frequency characterization of holographic recording materials applied to correlation. , 2003, , .		4
207	Thick phase holographic gratings recorded on Agfa 8E75 HD, BB-640 and PFG-01 red sensitive silver halide materials. , 2003, , .		0
208	Phasor analysis of eigenvectors generated in liquid-crystal displays. Applied Optics, 2002, 41, 4579.	2.1	14
209	Characterization of the Liquid Crystal Display Modulation. Optimization for Some Applications. Acta Physica Polonica A, 2002, 101, 189-200.	0.5	1
210	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
211	Amplitude apodizers encoded onto Fresnel lenses implemented on a phase-only spatial light modulator. Applied Optics, 2001, 40, 2316.	2.1	38
212	<title>Simultaneous encoding of amplitude apodizers and Fresnel lenses in spatial light modulators</title>. , 2001, 4419, 692.		0
213	<title>Programmable amplitude apodizers in liquid crystal spatial light modulators</title>. , 2001, , .		1
214	Optimization of liquid crystal displays behavior in optical image processing and in diffractive optics. , 2001, , .		1
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