

Luis Carretero

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104
papers

743
citations

15
h-index

21
g-index

123
ext. papers

843
ext. citations

2.3
avg, IF

3.43
L-index

#	Paper	IF	Citations
104	Optimization of an acrylamide-based dry film used for holographic recording. <i>Applied Optics</i> , 1998 , 37, 7604-10	1.7	42
103	Photopolymerization model for holographic gratings formation in photopolymers. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 639-662	1.9	40
102	Nonparaxial diffraction analysis of Airy and SAiry beams. <i>Optics Express</i> , 2009 , 17, 22432-41	3.3	33
101	Highly sensitive photopolymerizable dry film for use in real time holography. <i>Applied Physics Letters</i> , 1998 , 73, 1628-1630	3.4	31
100	Study of angular responses of mixed amplitude--phase holographic gratings: shifted Borrmann effect. <i>Optics Letters</i> , 2001 , 26, 786-8	3	28
99	Acrylamide-N,N'-methylenebisacrylamide silica glass holographic recording material. <i>Optics Express</i> , 2004 , 12, 1780-7	3.3	25
98	The use of partially coherent light to reduce the efficiency of silver halide noise gratings. <i>Optics Communications</i> , 1993 , 98, 236-240	2	25
97	Holography as a technique for the study of photopolymerization kinetics in dry polymeric films with a nonlinear response. <i>Applied Optics</i> , 1999 , 38, 955-62	1.7	24
96	Theoretical and experimental study of the bleaching of a dye in a film-polymerization process. <i>Applied Optics</i> , 1998 , 37, 4496-9	1.7	23
95	Pyromethene-HEMA-based photopolymerizable holographic recording material. <i>Optics Communications</i> , 2003 , 228, 55-61	2	20
94	Self-induced phase gratings due to the inhomogeneous structure of acrylamide photopolymer systems used as holographic recording materials. <i>Applied Physics Letters</i> , 1995 , 67, 3856-3858	3.4	18
93	Matrix method for the study of wave propagation in one-dimensional general media. <i>Optics Express</i> , 2006 , 14, 11385-91	3.3	17
92	A theoretical model for noise gratings recorded in acrylamide photopolymer materials used in real-time holography. <i>Journal of Modern Optics</i> , 1998 , 45, 2345-2354	1.1	17
91	Ab initio study of absorption and emission spectra of PM567. <i>Chemical Physics Letters</i> , 2003 , 374, 206-214	4.5	15
90	Optimization of a photopolymerizable holographic recording material based on polyvinylalcohol using angular responses. <i>Optical Materials</i> , 2003 , 23, 529-538	3.3	15
89	Multiple band holographic reflection gratings recorded in new ultra-fine grain emulsion BBVPan. <i>Optics Express</i> , 2003 , 11, 3385-92	3.3	13
88	Periodic Trajectories Obtained With an Active Tractor Beam Using Azimuthal Polarization: Design of Particle Exchanger. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-12	1.8	12

87	Theoretical model of holographic grating formation in photopolymerizable dry films in slanted geometry. <i>Optics Communications</i> , 2000 , 173, 423-433	2	12
86	Three-dimensional analysis of optical forces generated by an active tractor beam using radial polarization. <i>Optics Express</i> , 2014 , 22, 3284-95	3.3	11
85	Diffraction gratings and diffusion coefficient determination of acrylamide and polyacrylamide in sol-gel glass. <i>Applied Physics Letters</i> , 2004 , 84, 4765-4767	3.4	11
84	DipyrrometheneBF ₂ complexes with optimized electrooptic properties. <i>Chemical Physics Letters</i> , 2003 , 382, 489-495	2.5	11
83	Hologram multiplexing in a highly photosensitive photopolymerizable material in a sol-gel matrix. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 167-169	1.9	11
82	Design of an optical conveyor for selective separation of a mixture of enantiomers. <i>Optics Express</i> , 2017 , 25, 32290	3.3	10
81	An explanation for the non-uniform grating effects during recording of diffraction gratings in photopolymers. <i>Optics Express</i> , 2010 , 18, 799-808	3.3	10
80	Theoretical study of second-order non-linear optical properties of pyrromethene dyes for photonic application. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 2445-2454	1.3	10
79	Noise sources in silver halide volume diffuse-object holograms. <i>Optical Engineering</i> , 1995 , 34, 1108	1.1	10
78	Holographic Noise Gratings for Analysing and Optimizing Photochemical Processings in Bleached Silver Halide Emulsions. <i>Journal of Modern Optics</i> , 1993 , 40, 687-697	1.1	10
77	Nonlinear effects on holographic reflection gratings recorded with BB640 emulsions. <i>Optics Express</i> , 2003 , 11, 1906-17	3.3	9
76	Entropy-based study of imaging quality in holographic optical elements. <i>Optics Letters</i> , 1994 , 19, 1355-73		9
75	Near-Field Electromagnetic Analysis of Perfect Black Fresnel Zone Plates Using Radial Polarization. <i>Journal of Lightwave Technology</i> , 2011 , 29, 2585-2591	4	8
74	Optical singularities and power flux in the near-field region of planar evanescent-field superlenses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008 , 25, 2865-74	1.8	8
73	Holographic study of chain length in photopolymerizable compositions. <i>Applied Physics B: Lasers and Optics</i> , 2002 , 74, 243-251	1.9	8
72	Holographic reflection gratings in photopolymerizable solgel materials. <i>Optics Letters</i> , 2006 , 31, 2317-93		7
71	Study of Effect of Bifunctional Crosslinking Agent in Polyvinylalcohol-Based Photopolymerizable Holographic Recording Material Using Angular Responses. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 3730-3736	1.4	7
70	Nonlinear recording of amplitude holograms in agfa 8E75HD: comparison of two developers. <i>Optics Communications</i> , 1994 , 111, 225-232	2	7

69	Helical tractor beam: analytical solution of Rayleigh particle dynamics. <i>Optics Express</i> , 2015 , 23, 20529-39,3	3	6
68	Chiral Rayleigh particles discrimination in dynamic dual optical traps. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 201, 209-215	2.1	6
67	Optimum bending factor of intraocular lenses in pseudophakic eyes with high myopia. <i>Journal of Modern Optics</i> , 1997 , 44, 941-952	1.1	6
66	New photopolymerizable holographic recording material based on polyvinylalcohol and 2-hydroxiethylmethacrylate (HEMA). <i>Applied Physics B: Lasers and Optics</i> , 2002 , 74, 603-605	1.9	6
65	Application of the Ronchi test to intraocular lenses: A comparison of theoretical and measured results. <i>Applied Optics</i> , 1993 , 32, 4132-7	1.7	6
64	Analysis of nonuniform transmission gratings recorded in photopolymerizable silica glass materials. <i>Journal of Applied Physics</i> , 2008 , 104, 063109	2.5	5
63	Comment on "Resolving the wave vector and the refractive index from the coefficient of reflectance". <i>Optics Letters</i> , 2008 , 33, 1828; discussion 1829	3	5
62	Theoretical approach to photoinduced inhomogeneous anisotropy in bacteriorhodopsin films. <i>Physical Review E</i> , 2007 , 76, 016608	2.4	5
61	Dynamical behaviour of the optical properties of photopolymers and the lorentz-Lorenz formula. <i>Journal of Modern Optics</i> , 2000 , 47, 1419-1433	1.1	5
60	Diffuse-object Holograms in Silver Halide Sensitized Gelatin. <i>Journal of Modern Optics</i> , 1994 , 41, 649-653	1.1	5
59	Holographic optical elements recorded on spherical surfaces with photopolymers. <i>Applied Optics</i> , 1994 , 33, 3633-4	1.7	5
58	Volume influence on intermodulation noise of dielectric diffuse-object holograms. <i>Applied Optics</i> , 1992 , 31, 2408-9	1.7	5
57	Vectorial analysis of Airy-Airy bullets generated by high aperture binary micro zonal plate. <i>Optics and Lasers in Engineering</i> , 2020 , 124, 105802	4.6	5
56	Experimental study of multiplexed holographic gratings recorded in a photopolymerizable silica glass. <i>Applied Physics B: Lasers and Optics</i> , 2006 , 83, 619-622	1.9	4
55	Large enhancement of electronic first hyperpolarizability in Donor1Donor2 chromophores with charge defects. <i>Chemical Physics Letters</i> , 2004 , 394, 76-79	2.5	4
54	Purple membrane-polyacrilamide films as holographic recording materials. <i>Optics Express</i> , 2003 , 11, 3438-44	3.4	4
53	Multiplexed holographic gratings for fabricating 3D photonic crystals in BB640 photographic emulsions. <i>Optics Express</i> , 2004 , 12, 2903-8	3.3	4
52	Comparison of direct, rehalogenating, and solvent bleaching processes with BB-640 plates. <i>Applied Optics</i> , 2002 , 41, 4120-3	1.7	4

51	A mixture of mono-, bi- and trifunctional acrylates with eosine O-benzoyl- h oxime: Advances in holographic copolymerizable composition. <i>Journal of Modern Optics</i> , 1999 , 46, 559-566	1.1	4
50	Statistical Model for Noise Gratings Recorded in Volume Holograms. <i>Journal of Modern Optics</i> , 1993 , 40, 1299-1308	1.1	4
49	Axial irradiance for spherically aberrated holographic optical elements. <i>Optics Letters</i> , 1994 , 19, 1477-9	3	4
48	Measurement of spherical aberration of intraocular lenses with the Ronchi test. <i>Optometry and Vision Science</i> , 1992 , 69, 190-2	2.1	4
47	Generation of High-Quality Tunable One-Dimensional Airy Beams Using the Aberrations of a Single Lens. <i>IEEE Photonics Journal</i> , 2012 , 4, 1273-1280	1.8	3
46	Diffraction of convergent spherical waves with all possible polarization states using the Luneburg integral method. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013 , 30, 733-40	1.8	3
45	Rigorous analysis of the propagation of sinusoidal pulses in bacteriorhodopsin films. <i>Optics Express</i> , 2012 , 20, 25497-512	3.3	3
44	Application of the Fixed Point Theorem for the solution of the 1D wave equation: comparison with exact Mathieu solutions. <i>Optics Express</i> , 2005 , 13, 9078-84	3.3	3
43	One-dimensional photonic crystals with an amplitude-modulated dielectric constant in the unit cell. <i>Applied Optics</i> , 2004 , 43, 2895-9	1.7	3
42	One-dimensional, two-dimensional, and three-dimensional photonic crystals fabricated with interferometric techniques on ultrafine-grain silver halide emulsions 2004 ,		3
41	Analysis of the diffusion processes in dry photopolymerizable holographic recording materials 2005 ,		3
40	Real time study of the response of ascorbic as developer agent in holographic emulsions: superadditivity effects. <i>Optics Communications</i> , 2001 , 199, 317-324	2	3
39	Quantum yield and molar absorptivity for a dye photobleaching in a holographic recording material 1998 , 3294, 91		3
38	Experimental evaluation of entropy for transmission holographic optical elements. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 62, 45-50	1.9	3
37	Polarization influences on the efficiency of noise gratings recorded in silver halide holograms. <i>Applied Optics</i> , 1993 , 32, 7155-63	1.7	3
36	Existence of periodic solutions for a scalar differential equation modelling optical conveyor belts. <i>Journal of Mathematical Analysis and Applications</i> , 2019 , 480, 123385	1.1	2
35	Theoretical and experimental analysis of pulse delay in bacteriorhodopsin films by a saturable absorber theory. <i>Optics Express</i> , 2014 , 22, 11600-9	3.3	2
34	Coupled wave analysis of holographically induced transparency (HIT) generated by two multiplexed volume gratings. <i>Optics Express</i> , 2011 , 19, 7094-105	3.3	2

33	A comparative review of silver halide photopolymerizable system and sol-gel holographic materials 2009 ,		2
32	Polynomial fixed-point algorithm applied to the electromagnetic analysis of one-dimensional continuous structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 1354	1.7	2
31	Bidimensional chromophores for photorefractive polymers with working wavelength in the near IR. <i>Optics Express</i> , 2005 , 13, 8296-307	3.3	2
30	Upper limits of dielectric permittivity modulation in bacteriorhodopsin films. <i>Physical Review E</i> , 2005 , 72, 011909	2.4	2
29	Two-wave mixing in acrilamyde-based photopolymers 2001 ,		2
28	Real time study of development process in holographic emulsions. <i>Optics Communications</i> , 2000 , 173, 195-201	2	2
27	The computation and statistical analysis of aberrational diffraction patterns in holographic optical elements. <i>Journal of Optics</i> , 1995 , 26, 161-174		2
26	Real-time transmittance function in photopolymers of acrylamide composition: noise gratings 1996 ,		2
25	Influence of chromatic aberration on image quality in pseudophakic eyes with high myopia 1996 ,		2
24	Transformation of wavefront aberrations of holographic lenses for a general position of the exit pupil. <i>Journal of Optics</i> , 1991 , 22, 163-173		2
23	Spatio-temporal study of non-degenerate two-wave mixing in bacteriorhodopsin films. <i>Optics Express</i> , 2016 , 24, 25565-25581	3.3	2
22	Group-Delay Control in Two-Port Devices With Dual Input. <i>IEEE Photonics Journal</i> , 2013 , 5, 7900610-7900630		1
21	Analysis of the addition of a crosslinking agent in pyrromethene-HEMA based photopolymerizable holographic recording materials 2011 ,		1
20	High T(g) photorefractive polymers: influence of the chromophores' beta tensor. <i>Journal of Chemical Physics</i> , 2004 , 121, 8602-10	3.9	1
19	Full characterization of holographic reflection gratings recorded on BB640 emulsions. <i>Applied Optics</i> , 2004 , 43, 4219-24	1.7	1
18	Nonlinear Response of Photopolymers for Holography: Copolymerization Process. <i>Journal of Modern Optics</i> , 1995 , 42, 1351-1354	1.1	1
17	Experimental evaluation of shearing effects in volume holograms formed in bleached photographic emulsions. <i>Optics and Laser Technology</i> , 1994 , 26, 341-349	4.2	1
16	Accuracy of Topcon CM-1000 Videokeratoscope on Spherical Test Surfaces. <i>Journal of Refractive Surgery</i> , 1997 , 13, 663-668	3.3	1

15	Extraordinary spin to orbital angular momentum conversion on guided zone plates. <i>Scientific Reports</i> , 2021 , 11, 8073	4.9	1
14	Optical Conveyor Belts for Chiral Discrimination: Influence of De-Phasing Parameter. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1304	2.6	0
13	Triplet design as an intraocular lens for high myopia. <i>Applied Optics</i> , 1995 , 34, 2898-907	1.7	0
12	Saturable absorber theory with a modulated pump beam. <i>Laser Physics Letters</i> , 2016 , 13, 085604	1.5	
11	Real-time UV-visible spectroscopy analysis of purple membrane-polyacrylamide film formation taking into account Fano line shapes and scattering. <i>PLoS ONE</i> , 2014 , 9, e110518	3.7	
10	Design of periodic binary fiber gratings for single and multiple flat-top pulse generation. <i>Journal of Modern Optics</i> , 2009 , 56, 1874-1879	1.1	
9	Efficient Computation of Longitudinal Lasing Modes in Arbitrary Active Cavities: The Bidirectional Time Evolution Method. <i>Journal of Lightwave Technology</i> , 2009 , 27, 3000-3009	4	
8	Role of multipole moments in electric-field-induced order of dense molecular systems. <i>ChemPhysChem</i> , 2010 , 11, 2158-66	3.2	
7	Holographic optical elements in the presence of spherical aberration and focus error: Some remarks on imaging quality. <i>Journal of Modern Optics</i> , 1996 , 43, 1435-1450	1.1	
6	Axial irradiance and entropy of holographic optical elements under illumination with quasi-monochromatic light. <i>Journal of Modern Optics</i> , 1997 , 44, 431-438	1.1	
5	Hypersensitization in reflection holograms recorded in Agfa-Gevaert 8E75HD plates. <i>Journal of Modern Optics</i> , 2000 , 47, 81-89	1.1	
4	Signal-to-noise ratio of nonlinearity recorded holograms of diffuse objects. <i>Applied Optics</i> , 1994 , 33, 7606-10	1.7	
3	Generation of Huygens' dipoles for any spherical nanoparticle excited by counter-propagating plane waves: study of scattered helicity.. <i>Optics Express</i> , 2022 , 30, 1081-1088	3.3	
2	Dynamic of Si nanoparticles inside of a quadrupolar trap: Analysis of the angular momentum transfer. <i>Results in Physics</i> , 2020 , 19, 103520	3.7	
1	Kerker's conditions for chiral particles: Enhanced spin-to-orbital angular momentum conversion of the scattered light. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019 , 222-223, 60-64	2.1	