

Salvador Blaya

List of Publications by Year in descending order

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80
papers

785
citations

567281

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80
docs citations

80
times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of Huygensâ€™ dipoles for any spherical nanoparticle excited by counter-propagating plane waves: study of scattered helicity. Optics Express, 2022, 30, 1081.	3.4	0
2	Theoretical Analysis of Airyâ€™ Gauss Bullets Obtained by Means of High Aperture Binary Micro Zonal Plate. Micromachines, 2022, 13, 279.	2.9	0
3	Extraordinary spin to orbital angular momentum conversion on guided zone plates. Scientific Reports, 2021, 11, 8073.	3.3	2
4	Vectorial analysis of Airy-Airy bullets generated by high aperture binary micro zonal plate. Optics and Lasers in Engineering, 2020, 124, 105802.	3.8	7
5	Optical Conveyor Belts for Chiral Discrimination: Influence of De-Phasing Parameter. Applied Sciences (Switzerland), 2019, 9, 1304.	2.5	1
6	Kerkerâ€™s conditions for chiral particles: Enhanced spin-to-orbital angular momentum conversion of the scattered light. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 60-64.	2.3	0
7	Chiral Rayleigh particles discrimination in dynamic dual optical traps. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 201, 209-215.	2.3	6
8	Design of an optical conveyor for selective separation of a mixture of enantiomers. Optics Express, 2017, 25, 32290.	3.4	10
9	Spatio-temporal study of non-degenerate two-wave mixing in bacteriorhodopsin films. Optics Express, 2016, 24, 25565.	3.4	2
10	Saturable absorber theory with a modulated pump beam. Laser Physics Letters, 2016, 13, 085604.	1.4	0
11	Periodic Trajectories Obtained With an Active Tractor Beam Using Azimuthal Polarization: Design of Particle Exchanger. IEEE Photonics Journal, 2015, 7, 1-12.	2.0	12
12	Helical tractor beam: analytical solution of Rayleigh particle dynamics. Optics Express, 2015, 23, 20529.	3.4	7
13	Real-Time UV-Visible Spectroscopy Analysis of Purple Membrane-Polyacrylamide Film Formation Taking into Account Fano Line Shapes and Scattering. PLoS ONE, 2014, 9, e110518.	2.5	0
14	Three-dimensional analysis of optical forces generated by an active tractor beam using radial polarization. Optics Express, 2014, 22, 3284.	3.4	12
15	Theoretical and experimental analysis of pulse delay in bacteriorhodopsin films by a saturable absorber theory. Optics Express, 2014, 22, 11600.	3.4	2
16	Group-Delay Control in Two-Port Devices With Dual Input. IEEE Photonics Journal, 2013, 5, 7900610-7900610.	2.0	1
17	Diffraction of convergent spherical waves with all possible polarization states using the Luneburg integral method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 733.	1.5	3
18	Rigorous analysis of the propagation of sinusoidal pulses in bacteriorhodopsin films. Optics Express, 2012, 20, 25497.	3.4	5

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19	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.	2.0	5
20	Vectorial Diffraction Analysis of Near-Field Focusing of Perfect Black Fresnel Zone Plates Under Various Polarization States. <i>Journal of Lightwave Technology</i> , 2011, 29, 822-829.	4.6	13
21	Near-Field Electromagnetic Analysis of Perfect Black Fresnel Zone Plates Using Radial Polarization. <i>Journal of Lightwave Technology</i> , 2011, 29, 2585-2591.	4.6	11
22	Coupled wave analysis of holographically induced transparency (HIT) generated by two multiplexed volume gratings. <i>Optics Express</i> , 2011, 19, 7094.	3.4	3
23	Coupled-wave theory analysis of holographic structures for slow-light applications. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
24	Holographic recording diffraction gratings in BB640 photographic emulsions with femtosecond pulses in infrared region. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
25	Role of Multipole Moments in Electric-Field-Induced Order of Dense Molecular Systems. <i>ChemPhysChem</i> , 2010, 11, 2158-2166.	2.1	0
26	An explanation for the non-uniform grating effects during recording of diffraction gratings in photopolymers. <i>Optics Express</i> , 2010, 18, 799.	3.4	14
27	Design of periodic binary fiber gratings for single and multiple flat-top pulse generation. <i>Journal of Modern Optics</i> , 2009, 56, 1874-1879.	1.3	0
28	Nonparaxial diffraction analysis of Airy and SAiry beams. <i>Optics Express</i> , 2009, 17, 22432.	3.4	39
29	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.	4.6	0
30	Analysis of nonuniform transmission gratings recorded in photopolymerizable silica glass materials. <i>Journal of Applied Physics</i> , 2008, 104, 063109.	2.5	6
31	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.	1.5	8
32	Theoretical approach to photoinduced inhomogeneous anisotropy in bacteriorhodopsin films. <i>Physical Review E</i> , 2007, 76, 016608.	2.1	5
33	Holographic reflection gratings in photopolymerizable solgel materials. <i>Optics Letters</i> , 2006, 31, 2317.	3.3	12
34	Matrix method for the study of wave propagation in one-dimensional general media. <i>Optics Express</i> , 2006, 14, 11385.	3.4	24
35	Experimental study of multiplexed holographic gratings recorded in a photopolymerizable silica glass. <i>Applied Physics B: Lasers and Optics</i> , 2006, 83, 619-622.	2.2	5
36	Analysis of the diffusion processes in dry photopolymerizable holographic recording materials. , 2005, , .		3

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37	Fourier holograms recorded in PVA-AA photopolymers: Study of the influence of beam ratio. , 2005, , .		0
38	Panchromatic emulsions for recording colour holograms. , 2005, , .		0
39	Hologram multiplexing in a highly photosensitive photopolymerizable material in a sol-gel matrix. Applied Physics B: Lasers and Optics, 2005, 81, 167-169.	2.2	12
40	Upper limits of dielectric permittivity modulation in bacteriorhodopsin films. Physical Review E, 2005, 72, 011909.	2.1	3
41	Bidimensional chromophores for photorefractive polymers with working wavelength in the near IR. Optics Express, 2005, 13, 8296.	3.4	2
42	Application of the Fixed Point Theorem for the solution of the 1D wave equation: Comparison with exact Mathieu solutions. Optics Express, 2005, 13, 9078.	3.4	6
43	High T _g photorefractive polymers: Influence of the chromophores' $\hat{\epsilon}^{\text{TM}}$ tensor. Journal of Chemical Physics, 2004, 121, 8602.	3.0	3
44	Large enhancement of electronic first hyperpolarizability in Donor1- π -Donor2 chromophores with charge defects. Chemical Physics Letters, 2004, 394, 76-79.	2.6	4
45	Diffraction gratings and diffusion coefficient determination of acrylamide and polyacrylamide in sol-gel glass. Applied Physics Letters, 2004, 84, 4765-4767.	3.3	11
46	Acrylamide-N,N'-methylenebisacrylamide silica glass holographic recording material. Optics Express, 2004, 12, 1780.	3.4	33
47	Multiplexed holographic gratings for fabricating 3D photonic crystals in BB640 photographic emulsions. Optics Express, 2004, 12, 2903.	3.4	5
48	One-Dimensional photonic crystals with an amplitude-modulated dielectric constant in the unit cell. Applied Optics, 2004, 43, 2895.	2.1	5
49	Full characterization of holographic reflection gratings recorded on BB640 emulsions. Applied Optics, 2004, 43, 4219.	2.1	3
50	One-dimensional, two-dimensional, and three-dimensional photonic crystals fabricated with interferometric techniques on ultrafine-grain silver halide emulsions. , 2004, , .		4
51	Estudio de cromóforos orgánicos con propiedades ópticas no lineales. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 467-469.	1.9	2
52	Photopolymerization model for holographic gratings formation in photopolymers. Applied Physics B: Lasers and Optics, 2003, 77, 639-662.	2.2	55
53	Pyromethene-HEMA-based photopolymerizable holographic recording material. Optics Communications, 2003, 228, 55-61.	2.1	23
54	Dipyromethene-BF ₂ complexes with optimized electrooptic properties. Chemical Physics Letters, 2003, 382, 489-495.	2.6	11

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55	Ab initio study of absorption and emission spectra of PM567. Chemical Physics Letters, 2003, 374, 206-214.	2.6	16
56	Optimization of a photopolymerizable holographic recording material based on polyvinylalcohol using angular responses. Optical Materials, 2003, 23, 529-538.	3.6	16
57	Nonlinear effects on holographic reflection gratings recorded with BB640 emulsions. Optics Express, 2003, 11, 1906.	3.4	11
58	Multiple band holographic reflection gratings recorded in new ultra-fine grain emulsion BBVPan. Optics Express, 2003, 11, 3385.	3.4	21
59	Purple membrane-polyacrilamide films as holographic recording materials. Optics Express, 2003, 11, 3438.	3.4	5
60	New processing techniques for reflection holograms recorded on BB640 holographic emulsions. , 2003, , .		0
61	Theoretical study of second-order non-linear optical properties of pyrromethene dyes for photonic application. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2445-2454.	1.5	13
62	Study of Effect of Bifunctional Crosslinking Agent in Polyvinylalcohol-Based Photopolymerizable Holographic Recording Material Using Angular Responses. Japanese Journal of Applied Physics, 2002, 41, 3730-3736.	1.5	8
63	Holographic study of chain length in photopolymerizable compositions. Applied Physics B: Lasers and Optics, 2002, 74, 243-251.	2.2	8
64	New photopolymerizable holographic recording material based on polyvinylalcohol and 2-hydroxyethylmethacrylate (HEMA). Applied Physics B: Lasers and Optics, 2002, 74, 603-605.	2.2	6
65	Diffraction efficiency of unbleached phase and amplitude holograms as a function of volume fraction of metallic silver. Optics Communications, 2002, 201, 279-282.	2.1	3
66	Study of angular responses of mixed amplitude- π phase holographic gratings: a shifted Borrmann effect. Optics Letters, 2001, 26, 786.	3.3	34
67	Anomalous D-Log E curve with high contrast developer Kodak D8 on ultra fine grain emulsion BB640. Optics Express, 2001, 9, 645.	3.4	0
68	Real time study of the response of ascorbic as developer agent in holographic emulsions: superadditivity effects. Optics Communications, 2001, 199, 317-324.	2.1	4
69	Real time study of development process in holographic emulsions. Optics Communications, 2000, 173, 195-201.	2.1	2
70	Theoretical model of holographic grating formation in photopolymerizable dry films in slanted geometry. Optics Communications, 2000, 173, 423-433.	2.1	14
71	Holographic determination of the irradiance dependence of linear-chain polymerization rates in photopolymer dry films. Applied Physics B: Lasers and Optics, 2000, 70, 537-542.	2.2	18
72	A mixture of mono-, bi- and trifunctional acrylates with eosine O-benzoyl- β -oxoimine: Advances in holographic copolymerizable composition. Journal of Modern Optics, 1999, 46, 559-566.	1.3	5

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73	High-energy sensitivity enhancement in panchromatic photopolymers for holography using a mixture of visiblelight photoinitiators. Journal of Modern Optics, 1999, 46, 1091-1098.	1.3	7
74	Holography as a technique for the study of photopolymerization kinetics in dry polymeric films with a nonlinear response. Applied Optics, 1999, 38, 955.	2.1	28
75	A theoretical model for noise gratings recorded in acrylamide photopolymer materials used in real-time holography. Journal of Modern Optics, 1998, 45, 2345-2354.	1.3	25
76	Theoretical and experimental study of the bleaching of a dye in a film-polymerization process. Applied Optics, 1998, 37, 4496.	2.1	30
77	Optimization of an acrylamide-based dry film used for holographic recording. Applied Optics, 1998, 37, 7604.	2.1	56
78	Optimal composition of an acrylamide and N , N -methylenebisacrylamide holographic recording material. Journal of Modern Optics, 1998, 45, 2573-2584.	1.3	3
79	Highly sensitive photopolymerizable dry film for use in real time holography. Applied Physics Letters, 1998, 73, 1628-1630.	3.3	38
80	Stereoselective synthesis of $\hat{1}^2$ -alkoxy- and $\hat{1}^2$ -alkylthio-acrylic esters and amides from $\hat{1}^2$ -tosylacrylic derivatives. Tetrahedron, 1995, 51, 3617-3626.	1.9	14