

Salvador Blaya

List of Publications by Year in descending order

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80
papers

785
citations

567281

15
h-index

580821

25
g-index

80
all docs

80
docs citations

80
times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of an acrylamide-based dry film used for holographic recording. Applied Optics, 1998, 37, 7604.	2.1	56
2	Photopolymerization model for holographic gratings formation in photopolymers. Applied Physics B: Lasers and Optics, 2003, 77, 639-662.	2.2	55
3	Nonparaxial diffraction analysis of Airy and SAiry beams. Optics Express, 2009, 17, 22432.	3.4	39
4	Highly sensitive photopolymerizable dry film for use in real time holography. Applied Physics Letters, 1998, 73, 1628-1630.	3.3	38
5	Study of angular responses of mixed amplitude- π phase holographic gratings: π -shifted Borrmann effect. Optics Letters, 2001, 26, 786.	3.3	34
6	Acrylamide-N,N'-methylenebisacrylamide silica glass holographic recording material. Optics Express, 2004, 12, 1780.	3.4	33
7	Theoretical and experimental study of the bleaching of a dye in a film-polymerization process. Applied Optics, 1998, 37, 4496.	2.1	30
8	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
9	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
10	Matrix method for the study of wave propagation in one-dimensional general media. Optics Express, 2006, 14, 11385.	3.4	24
11	Pyromethene-HEMA-based photopolymerizable holographic recording material. Optics Communications, 2003, 228, 55-61.	2.1	23
12	Multiple band holographic reflection gratings recorded in new ultra-fine grain emulsion BBVPan. Optics Express, 2003, 11, 3385.	3.4	21
13	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
14	Ab initio study of absorption and emission spectra of PM567. Chemical Physics Letters, 2003, 374, 206-214.	2.6	16
15	Optimization of a photopolymerizable holographic recording material based on polyvinylalcohol using angular responses. Optical Materials, 2003, 23, 529-538.	3.6	16
16	Stereoselective synthesis of β -alkoxy- and β -alkylthio-acrylic esters and amides from β -tosylacrylic derivatives. Tetrahedron, 1995, 51, 3617-3626.	1.9	14
17	Theoretical model of holographic grating formation in photopolymerizable dry films in slanted geometry. Optics Communications, 2000, 173, 423-433.	2.1	14
18	An explanation for the non-uniform grating effects during recording of diffraction gratings in photopolymers. Optics Express, 2010, 18, 799.	3.4	14

#	ARTICLE	IF	CITATIONS
19	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.	1.5	13
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	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.	2.2	12
22	Holographic reflection gratings in photopolymerizable solgel materials. <i>Optics Letters</i> , 2006, 31, 2317.	3.3	12
23	Three-dimensional analysis of optical forces generated by an active tractor beam using radial polarization. <i>Optics Express</i> , 2014, 22, 3284.	3.4	12
24	Periodic Trajectories Obtained With an Active Tractor Beam Using Azimuthal Polarization: Design of Particle Exchanger. <i>IEEE Photonics Journal</i> , 2015, 7, 1-12.	2.0	12
25	Dipyrrometheneâ€“BF ₂ complexes with optimized electrooptic properties. <i>Chemical Physics Letters</i> , 2003, 382, 489-495.	2.6	11
26	Nonlinear effects on holographic reflection gratings recorded with BB640 emulsions. <i>Optics Express</i> , 2003, 11, 1906.	3.4	11
27	Diffraction gratings and diffusion coefficient determination of acrylamide and polyacrylamide in sol-gel glass. <i>Applied Physics Letters</i> , 2004, 84, 4765-4767.	3.3	11
28	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
29	Design of an optical conveyor for selective separation of a mixture of enantiomers. <i>Optics Express</i> , 2017, 25, 32290.	3.4	10
30	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.	1.5	8
31	Holographic study of chain length in photopolymerizable compositions. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 243-251.	2.2	8
32	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
33	High-energy sensitivity enhancement in panchromatic photopolymers for holography using a mixture of visiblelight photoinitiators. <i>Journal of Modern Optics</i> , 1999, 46, 1091-1098.	1.3	7
34	Helical tractor beam: analytical solution of Rayleigh particle dynamics. <i>Optics Express</i> , 2015, 23, 20529.	3.4	7
35	Vectorial analysis of Airy-Airy bullets generated by high aperture binary micro zonal plate. <i>Optics and Lasers in Engineering</i> , 2020, 124, 105802.	3.8	7
36	New photopolymerizable holographic recording material based on polyvinylalcohol and 2-hydroxyethylmethacrylate (HEMA). <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 603-605.	2.2	6

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37	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.	3.4	6
38	Analysis of nonuniform transmission gratings recorded in photopolymerizable silica glass materials. <i>Journal of Applied Physics</i> , 2008, 104, 063109.	2.5	6
39	Chiral Rayleigh particles discrimination in dynamic dual optical traps. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 201, 209-215.	2.3	6
40	A mixture of mono-, bi- and trifunctional acrylates with eosine O-benzoyl- β -oxoimine: Advances in holographic copolymerizable composition. <i>Journal of Modern Optics</i> , 1999, 46, 559-566.	1.3	5
41	Purple membrane-polyacrilamide films as holographic recording materials. <i>Optics Express</i> , 2003, 11, 3438.	3.4	5
42	Multiplexed holographic gratings for fabricating 3D photonic crystals in BB640 photographic emulsions. <i>Optics Express</i> , 2004, 12, 2903.	3.4	5
43	One-Dimensional photonic crystals with an amplitude-modulated dielectric constant in the unit cell. <i>Applied Optics</i> , 2004, 43, 2895.	2.1	5
44	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
45	Theoretical approach to photoinduced inhomogeneous anisotropy in bacteriorhodopsin films. <i>Physical Review E</i> , 2007, 76, 016608.	2.1	5
46	Rigorous analysis of the propagation of sinusoidal pulses in bacteriorhodopsin films. <i>Optics Express</i> , 2012, 20, 25497.	3.4	5
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.	2.0	5
48	Real time study of the response of ascorbic as developer agent in holographic emulsions: superadditivity effects. <i>Optics Communications</i> , 2001, 199, 317-324.	2.1	4
49	Large enhancement of electronic first hyperpolarizability in Donor1- π -Donor2 chromophores with charge defects. <i>Chemical Physics Letters</i> , 2004, 394, 76-79.	2.6	4
50	One-dimensional, two-dimensional, and three-dimensional photonic crystals fabricated with interferometric techniques on ultrafine-grain silver halide emulsions. , 2004, , .		4
51	Optimal composition of an acrylamide and N , N -methylenebisacrylamide holographic recording material. <i>Journal of Modern Optics</i> , 1998, 45, 2573-2584.	1.3	3
52	Diffraction efficiency of unbleached phase and amplitude holograms as a function of volume fraction of metallic silver. <i>Optics Communications</i> , 2002, 201, 279-282.	2.1	3
53	High T _{sub g} photorefractive polymers: Influence of the chromophores $\hat{\epsilon}^{\text{TM}}$ tensor. <i>Journal of Chemical Physics</i> , 2004, 121, 8602.	3.0	3
54	Full characterization of holographic reflection gratings recorded on BB640 emulsions. <i>Applied Optics</i> , 2004, 43, 4219.	2.1	3

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55	Analysis of the diffusion processes in dry photopolymerizable holographic recording materials. , 2005, , .		3
56	Upper limits of dielectric permittivity modulation in bacteriorhodopsin films. Physical Review E, 2005, 72, 011909.	2.1	3
57	Coupled wave analysis of holographically induced transparency (HIT) generated by two multiplexed volume gratings. Optics Express, 2011, 19, 7094.	3.4	3
58	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
59	Real time study of development process in holographic emulsions. Optics Communications, 2000, 173, 195-201.	2.1	2
60	Bidimensional chromophores for photorefractive polymers with working wavelength in the near IR. Optics Express, 2005, 13, 8296.	3.4	2
61	Theoretical and experimental analysis of pulse delay in bacteriorhodopsin films by a saturable absorber theory. Optics Express, 2014, 22, 11600.	3.4	2
62	Spatio-temporal study of non-degenerate two-wave mixing in bacteriorhodopsin films. Optics Express, 2016, 24, 25565.	3.4	2
63	Extraordinary spin to orbital angular momentum conversion on guided zone plates. Scientific Reports, 2021, 11, 8073.	3.3	2
64	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
65	Group-Delay Control in Two-Port Devices With Dual Input. IEEE Photonics Journal, 2013, 5, 7900610-7900610.	2.0	1
66	Optical Conveyor Belts for Chiral Discrimination: Influence of De-Phasing Parameter. Applied Sciences (Switzerland), 2019, 9, 1304.	2.5	1
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	New processing techniques for reflection holograms recorded on BB640 holographic emulsions. , 2003, , .		0
69	Fourier holograms recorded in PVA-AA photopolymers: Study of the influence of beam ratio. , 2005, , .		0
70	Panchromatic emulsions for recording colour holograms. , 2005, , .		0
71	Design of periodic binary fiber gratings for single and multiple flat-top pulse generation. Journal of Modern Optics, 2009, 56, 1874-1879.	1.3	0
72	Efficient Computation of Longitudinal Lasing Modes in Arbitrary Active Cavities: The Bidirectional Time Evolution Method. Journal of Lightwave Technology, 2009, 27, 3000-3009.	4.6	0

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73	Role of Multipole Moments in Electric-Field-Induced Order of Dense Molecular Systems. ChemPhysChem, 2010, 11, 2158-2166.	2.1	0
74	Coupled-wave theory analysis of holographic structures for slow-light applications. Proceedings of SPIE, 2011, , .	0.8	0
75	Holographic recording diffraction gratings in BB640 photographic emulsions with femtosecond pulses in infrared region. Proceedings of SPIE, 2011, , .	0.8	0
76	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
77	Saturable absorber theory with a modulated pump beam. Laser Physics Letters, 2016, 13, 085604.	1.4	0
78	Kerker'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
79	Generation of Huygens' dipoles for any spherical nanoparticle excited by counter-propagating plane waves: study of scattered helicity. Optics Express, 2022, 30, 1081.	3.4	0
80	Theoretical Analysis of Airy's Gauss Bullets Obtained by Means of High Aperture Binary Micro Zonal Plate. Micromachines, 2022, 13, 279.	2.9	0