

# A Fimia

## List of Publications by Year in descending order

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96  
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1,105  
citations

430843

18  
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501174

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g-index

96  
all docs

96  
docs citations

96  
times ranked

338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of an acrylamide-based dry film used for holographic recording. <i>Applied Optics</i> , 1998, 37, 7604.	2.1	56
2	Photopolymerization model for holographic gratings formation in photopolymers. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 639-662.	2.2	55
3	Magnification and visual acuity in highly myopic phakic eyes corrected with an anterior chamber intraocular lens versus by other methods. <i>Journal of Cataract and Refractive Surgery</i> , 1996, 22, 1416-1422.	1.5	52
4	Elimination of Oxygen Inhibition in Photopolymer Systems Used as Holographic Recording Materials. <i>Journal of Modern Optics</i> , 1993, 40, 699-706.	1.3	42
5	Fixation-free methods in bleached reflection holography. <i>Applied Optics</i> , 1986, 25, 1642.	2.1	41
6	Highly sensitive photopolymerizable dry film for use in real time holography. <i>Applied Physics Letters</i> , 1998, 73, 1628-1630.	3.3	38
7	Study of angular responses of mixed amplitude phase holographic gratings: shifted Borrmann effect. <i>Optics Letters</i> , 2001, 26, 786.	3.3	34
8	Silver Halide (Sensitized) Gelatin in Agfa-Gevaert Plates: The Optimized Procedure. <i>Journal of Modern Optics</i> , 1991, 38, 2043-2051.	1.3	33
9	Synthesis and Evaluation as a Visible-Light Polymerization Photoinitiator of a New Eosin Ester with an O-Benzoyl-alpha-oxoime Group. <i>Macromolecules</i> , 1994, 27, 2643-2646.	4.8	33
10	Acrylamide-N,N'-methylenebisacrylamide silica glass holographic recording material. <i>Optics Express</i> , 2004, 12, 1780.	3.4	33
11	Theoretical and experimental study of the bleaching of a dye in a film-polymerization process. <i>Applied Optics</i> , 1998, 37, 4496.	2.1	30
12	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.	2.1	28
13	Holographic behavior of a photopolymer at high thicknesses and high monomer concentrations: mechanism of photopolymerization. <i>Applied Physics B: Lasers and Optics</i> , 2001, 72, 311-316.	2.2	27
14	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.	3.3	26
15	The use of partially coherent light to reduce the efficiency of silver halide noise gratings. <i>Optics Communications</i> , 1993, 98, 236-240.	2.1	25
16	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.	1.3	25
17	Matrix method for the study of wave propagation in one-dimensional general media. <i>Optics Express</i> , 2006, 14, 11385.	3.4	24
18	Pyromethene-HEMA-based photopolymerizable holographic recording material. <i>Optics Communications</i> , 2003, 228, 55-61.	2.1	23

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19	New photopolymer used as a holographic recording material. Applied Optics, 1993, 32, 3706.	2.1	18
20	Model for analyzing the effects of processing on recording material in thick holograms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 1214.	1.5	17
21	Two dyes for holographic recording material: Panchromatic ion pair from Rose Bengal and methylene blue. Journal of Modern Optics, 2001, 48, 941-945.	1.3	17
22	Optimization of a photopolymerizable holographic recording material based on polyvinylalcohol using angular responses. Optical Materials, 2003, 23, 529-538.	3.6	16
23	Holographic system for copying holograms by using partially coherent light. Applied Optics, 1992, 31, 3312.	2.1	15
24	Theoretical model of holographic grating formation in photopolymerizable dry films in slanted geometry. Optics Communications, 2000, 173, 423-433.	2.1	14
25	An explanation for the non-uniform grating effects during recording of diffraction gratings in photopolymers. Optics Express, 2010, 18, 799.	3.4	14
26	Improvement of image quality in bleached holograms. Applied Optics, 1982, 21, 3412.	2.1	13
27	A two-step method for recording holographic optical elements with partially coherent light. Journal of Optics, 1991, 22, 135-140.	0.3	13
28	New theoretical matrix formula for intraocular lens calculation using the optimal bending factor. Journal of Cataract and Refractive Surgery, 1993, 19, 293-297.	1.5	13
29	Optimal composition of an acrylamide and N,N'-methylenebisacrylamide holographic recording material. Journal of Modern Optics, 1998, 45, 2573-2584.	1.3	12
30	Method for the characterization of hologram processing. Journal of Modern Optics, 1998, 45, 881-888.	1.3	12
31	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
32	Holographic reflection gratings in photopolymerizable solgel materials. Optics Letters, 2006, 31, 2317.	3.3	12
33	Optimized spatial frequency response in silver halide sensitized gelatin. Applied Optics, 1992, 31, 4625.	2.1	11
34	Silver halide sensitized gelatin as a holographic recording material. Optics and Laser Technology, 1995, 27, 285-292.	4.6	11
35	Diffraction gratings and diffusion coefficient determination of acrylamide and polyacrylamide in sol-gel glass. Applied Physics Letters, 2004, 84, 4765-4767.	3.3	11
36	Holographic Noise Gratings for Analysing and Optimizing Photochemical Processings in Bleached Silver Halide Emulsions. Journal of Modern Optics, 1993, 40, 687-697.	1.3	10

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37	Entropy-based study of imaging quality in holographic optical elements. Optics Letters, 1994, 19, 1355.	3.3	10
38	Influence of R-10 bleaching on latent image formation in silver halide-sensitized gelatin. Applied Optics, 1992, 31, 3203.	2.1	9
39	Comparison of nonlinear characteristics of phase holograms processed by various combinations of developers and bleaching agents. Journal of Modern Optics, 1999, 46, 591-604.	1.3	9
40	Efficiency of Thick Phase Holograms in the Presence of Shear-type Effects Due to Processing. Journal of Modern Optics, 1992, 39, 889-899.	1.3	8
41	Application of the Ronchi test to intraocular lenses: A comparison of theoretical and measured results. Applied Optics, 1993, 32, 4132.	2.1	8
42	Noise gratings in bleached silver halide diffuse-object holograms. Optics Letters, 1994, 19, 1243.	3.3	8
43	Copying low spatial frequency diffraction gratings in photopolymer as phase holograms. Journal of Modern Optics, 2000, 47, 1089-1097.	1.3	8
44	Experimental study of the acrylamide photopolymer with a pulsed laser. Optics Communications, 2001, 188, 163-166.	2.1	8
45	Holographic study of chain length in photopolymerizable compositions. Applied Physics B: Lasers and Optics, 2002, 74, 243-251.	2.2	8
46	Imaging in white light with a thick-phase transmission holographic doublet. Journal of Optics, 1989, 20, 263-268.	0.3	7
47	New photopolymer with trifunctional monomer for holographic applications. Applied Physics B: Lasers and Optics, 1996, 63, 151-153.	2.2	7
48	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
49	Noise gratings recorded with single-beam exposures in silver halide emulsions: the influence of the bleach bath. Optical and Quantum Electronics, 1993, 25, 139-145.	3.3	6
50	Diffuse-object Holograms in Silver Halide Sensitized Gelatin. Journal of Modern Optics, 1994, 41, 649-653.	1.3	6
51	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
52	Analysis of nonuniform transmission gratings recorded in photopolymerizable silica glass materials. Journal of Applied Physics, 2008, 104, 063109.	2.5	6
53	Silver Halide Sensitized Gelatin As A Holographic Storage Medium. , 1988, , .		6
54	Volume influence on intermodulation noise of dielectric diffuse-object holograms. Applied Optics, 1992, 31, 2408.	2.1	5

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55	Statistical Model for Noise Gratings Recorded in Volume Holograms. Journal of Modern Optics, 1993, 40, 1299-1308.	1.3	5
56	Holographic optical elements recorded on spherical surfaces with photopolymers. Applied Optics, 1994, 33, 3633.	2.1	5
57	Real-time Measurement of Diffraction Efficiency in Holographic Materials with Nonlinear Responses. Journal of Modern Optics, 1994, 41, 1867-1873.	1.3	5
58	A mixture of mono-, bi- and trifunctional acrylates with eosine O-benzoyl- $\beta$ -oxoimine: Advances in holographic copolymerizable composition. Journal of Modern Optics, 1999, 46, 559-566.	1.3	5
59	Dynamical behaviour of the optical properties of photopolymers and the Lorentz-Lorenz formula. Journal of Modern Optics, 2000, 47, 1419-1433.	1.3	5
60	Photosensitive materials for holographic recording. , 2001, , 277-317.		5
61	Experimental study of multiplexed holographic gratings recorded in a photopolymerizable silica glass. Applied Physics B: Lasers and Optics, 2006, 83, 619-622.	2.2	5
62	Theoretical approach to photoinduced inhomogeneous anisotropy in bacteriorhodopsin films. Physical Review E, 2007, 76, 016608.	2.1	5
63	Rigorous analysis of the propagation of sinusoidal pulses in bacteriorhodopsin films. Optics Express, 2012, 20, 25497.	3.4	5
64	Noise reduction in holographic images reconstructed with blue light. Applied Optics, 1983, 22, 3318.	2.1	4
65	Silver-Halide Sensitized Holograms And Their Applications. , 1989, 1136, 53.		4
66	Holographic collimator of diameter 200 mm in silver halide sensitized gelatin. Journal of Optics, 1990, 21, 211-215.	0.3	4
67	Calculation of shear angles in holographic gratings recorded in bleached silver-halide emulsions. Applied Physics B: Lasers and Optics, 1994, 59, 553-561.	2.2	4
68	Axial irradiance for spherically aberrated holographic optical elements. Optics Letters, 1994, 19, 1477.	3.3	4
69	Copying computer-generated-holographic interconnects by the use of partially coherent light. Applied Optics, 1994, 33, 1431.	2.1	4
70	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
71	Influences of Recording Geometry Parameters on Diffraction Efficiency in Bleached Silver Halide Transmission Holograms. Journal of Modern Optics, 1992, 39, 1855-1861.	1.3	3
72	Noise gratings in thick-phase holographic lenses. Journal of Optics, 1993, 24, 99-105.	0.3	3

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73	Triplet design as an intraocular lens for high myopia. Applied Optics, 1995, 34, 2898.	2.1	3
74	Experimental evaluation of entropy for transmission holographic optical elements. Applied Physics B: Lasers and Optics, 1996, 62, 45-50.	2.2	3
75	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
76	Upper limits of dielectric permittivity modulation in bacteriorhodopsin films. Physical Review E, 2005, 72, 011909.	2.1	3
77	Transformation of wavefront aberrations of holographic lenses for a general position of the exit pupil. Journal of Optics, 1991, 22, 163-173.	0.3	2
78	Nonlinear Response of Photopolymers for Holography: Copolymerization Process. Journal of Modern Optics, 1995, 42, 1351-1354.	1.3	2
79	The computation and statistical analysis of aberrational diffraction patterns in holographic optical elements. Journal of Optics, 1995, 26, 161-174.	0.3	2
80	Real time study of development process in holographic emulsions. Optics Communications, 2000, 173, 195-201.	2.1	2
81	Low spatial frequency characterization of holographic recording materials applied to correlation. Journal of Optics, 2003, 5, S175-S182.	1.5	2
82	A comparative review of silver halide photopolymerizable system and sol-gel holographic materials. , 2009, , .		2
83	Experimental evaluation of shearing effects in volume holograms formed in bleached photographic emulsions. Optics and Laser Technology, 1994, 26, 341-349.	4.6	1
84	Diffuse-object holograms in silver halide emulsions: influence of the beam ratio on the efficiency and the signal-to-noise ratio. Applied Optics, 1996, 35, 782.	2.1	1
85	The behaviour of refractive-index modulation for diffuse-object holograms in SHSG. Journal of Modern Optics, 2001, 48, 959-964.	1.3	1
86	Analysis of the addition of a crosslinking agent in pyrromethene-HEMA based photopolymerizable holographic recording materials. Proceedings of SPIE, 2011, , .	0.8	1
87	Holographic storage in bleached emulsion of N divergent object beams generated by a two-dimensional regular array: analysis of the signal-to-noise ratio. Applied Optics, 1996, 35, 5237.	2.1	0
88	Diffraction efficiency and signal-to-noise ratio of multiplexed volume phase holograms recorded in a photographic emulsion. Applied Physics B: Lasers and Optics, 1996, 63, 29-34.	2.2	0
89	Holographic optical elements in the presence of spherical aberration and focus error: Some remarks on imaging quality. Journal of Modern Optics, 1996, 43, 1435-1450.	1.3	0
90	Axial irradiance and entropy of holographic optical elements under illumination with quasi-monochromatic light. Journal of Modern Optics, 1997, 44, 431-438.	1.3	0

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91	Hybrid process of latent image formation in silver halide sensitized gelatin: differential hardening with microvoids. Journal of Modern Optics, 2002, 49, 1057-1068.	1.3	0
92	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
93	Analysis of the effect modification of the photoinitiator system in pyrromethene-HEMA based photopolymerizable holographic recording materials. , 2011, , .		0
94	Multiplexed holographic reflection gratings in sol-gel. , 2011, , .		0
95	Theoretical and experimental analysis of the propagation of sinusoidal signals in Bacteriorhodopsin films. , 2014, , .		0
96	Test of VPHGS in SHSG for use at cryogenic temperatures. Proceedings of SPIE, 2017, , .	0.8	0