

Inmaculada Pascual

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Refractive and Aberrometric Outcomes of Intracorneal Ring Segments for Keratoconus: Mechanical versus Femtosecond-assisted Procedures. <i>Ophthalmology</i> , 2009, 116, 1675-1687.	5.2	149
2	Temporal analysis of grating formation in photopolymer using the nonlocal polymerization-driven diffusion model. <i>Optics Express</i> , 2005, 13, 6990.	3.4	103
3	Holographic photopolymer materials: nonlocal polymerization-driven diffusion under nonideal kinetic conditions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 407.	2.1	96
4	Optimization of a 1Âmm thick PVA/acrylamide recording material to obtain holographic memories: method of preparation and holographic properties. <i>Applied Physics B: Lasers and Optics</i> , 2003, 76, 851-857.	2.2	80
5	Intracorneal Ring Segment Implantation in Corneas with Post-Laser In Situ Keratomileusis Keratectasia. <i>Ophthalmology</i> , 2009, 116, 1665-1674.	5.2	76
6	Physical and effective optical thickness of holographic diffraction gratings recorded in photopolymers. <i>Optics Express</i> , 2005, 13, 1939.	3.4	66
7	Optimization of a thick polyvinyl alcohol-acrylamide photopolymer for data storage using a combination of angular and peristrophic holographic multiplexing. <i>Applied Optics</i> , 2006, 45, 7661.	2.1	66
8	New photopolymer holographic recording material with sustainable design. <i>Optics Express</i> , 2007, 15, 12425.	3.4	63
9	Roadmap on holography. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 123002.	2.2	54
10	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
11	In dark analysis of PVA/AA materials at very low spatial frequencies: phase modulation evolution and diffusion estimation. <i>Optics Express</i> , 2009, 17, 18279.	3.4	52
12	First-harmonic diffusion-based model applied to a polyvinyl-alcoholâ€“acrylamide-based photopolymer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 2052.	2.1	50
13	3 Dimensional analysis of holographic photopolymers based memories. <i>Optics Express</i> , 2005, 13, 3543.	3.4	50
14	Holographic characteristics of a 1-mm-thick photopolymer to be used in holographic memories. <i>Applied Optics</i> , 2003, 42, 7008.	2.1	48
15	Refractive and Corneal Aberrometric Changes after Intracorneal Ring Implantation in Corneas with Pellucid Marginal Degeneration. <i>Ophthalmology</i> , 2009, 116, 1656-1664.	5.2	48
16	Angular responses of the first and second diffracted orders in transmission diffraction grating recorded on photopolymer material. <i>Optics Express</i> , 2003, 11, 1835.	3.4	47
17	Corneal aberrometric and refractive performance of 2 intrastromal corneal ring segment models in early and moderate ectatic disease. <i>Journal of Cataract and Refractive Surgery</i> , 2010, 36, 102-109.	1.5	46
18	Comparison of peristrophic multiplexing and a combination of angular and peristrophic holographic multiplexing in a thick PVA/acrylamide photopolymer for data storage. <i>Applied Optics</i> , 2007, 46, 5368.	2.1	42

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19	Averaged Stokes polarimetry applied to evaluate retardance and flicker in PA-LCoS devices. Optics Express, 2014, 22, 15064.	3.4	42
20	Overmodulation effects in volume holograms recorded on photopolymers. Optics Communications, 2003, 215, 263-269.	2.1	38
21	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
22	Retardance and flicker modeling and characterization of electro-optic linear retarders by averaged Stokes polarimetry. Optics Letters, 2014, 39, 1011.	3.3	37
23	Holographic waveguides in photopolymers. Optics Express, 2019, 27, 827.	3.4	36
24	Edge-enhanced imaging with polyvinyl alcohol /acrylamide photopolymer gratings. Optics Letters, 2003, 28, 1510.	3.3	34
25	An explicit approximate solution to the Duffing-harmonic oscillator by a cubication method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2805-2809.	2.1	34
26	Silver Halide (Sensitized) Gelatin in Agfa-Gevaert Plates: The Optimized Procedure. Journal of Modern Optics, 1991, 38, 2043-2051.	1.3	33
27	Cubication of conservative nonlinear oscillators. European Journal of Physics, 2009, 30, 973-981.	0.6	31
28	Biophotopol: A Sustainable Photopolymer for Holographic Data Storage Applications. Materials, 2012, 5, 772-783.	2.9	31
29	Quantitative Comparison of Five Different Photosensitizers for Use in a Photopolymer. Research Letters in Physics, 2012, 2012, 1-11.	0.2	31
30	Temporal evolution of the angular response of a holographic diffraction grating in PVA/acrylamide photopolymer. Optics Express, 2003, 11, 181.	3.4	30
31	Direct analysis of monomer diffusion times in polyvinyl/acrylamide materials. Applied Physics Letters, 2008, 92, .	3.3	30
32	3-dimensional characterization of thick grating formation in PVA/AA based photopolymer. Optics Express, 2006, 14, 5121.	3.4	29
33	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
34	Improving the performance of PVA/AA photopolymers for holographic recording. Optical Materials, 2013, 35, 668-673.	3.6	28
35	Holographic behavior of a photopolymer at high thicknesses and high monomer concentrations: mechanism of photopolymerization. Applied Physics B: Lasers and Optics, 2001, 72, 311-316.	2.2	27
36	Characterization of polyvinyl alcohol/acrylamide holographic memories with a first-harmonic diffusion model. Applied Optics, 2005, 44, 6205.	2.1	27

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37	Temporal response and first order volume changes during grating formation in photopolymers. <i>Journal of Applied Physics</i> , 2006, 99, 113105.	2.5	25
38	Approximate expressions for the period of a simple pendulum using a Taylor series expansion. <i>European Journal of Physics</i> , 2011, 32, 1303-1310.	0.6	24
39	Surface relief model for photopolymers without cover plating. <i>Optics Express</i> , 2011, 19, 10896.	3.4	24
40	Electrical dependencies of optical modulation capabilities in digitally addressed parallel aligned liquid crystal on silicon devices. <i>Optical Engineering</i> , 2014, 53, 067104.	1.0	24
41	Predictive capability of average Stokes polarimetry for simulation of phase multilevel elements onto LCoS devices. <i>Applied Optics</i> , 2015, 54, 1379.	1.8	24
42	Approximate solutions for the nonlinear pendulum equation using a rational harmonic representation. <i>Computers and Mathematics With Applications</i> , 2012, 64, 1602-1611.	2.7	23
43	Extended linear polarimeter to measure retardance and flicker: application to liquid crystal on silicon devices in two working geometries. <i>Optical Engineering</i> , 2014, 53, 014105.	1.0	23
44	High-efficiency silver-halide sensitized gelatin holograms with low absorption and scatter. <i>Journal of Modern Optics</i> , 1998, 45, 1985-1992.	1.3	22
45	Hybrid Ternary Modulation Applied to Multiplexing Holograms in Photopolymers for Data Page Storage. <i>Journal of Lightwave Technology</i> , 2010, 28, 776-783.	4.6	22
46	Diffraction lenses recorded in absorbent photopolymers. <i>Optics Express</i> , 2016, 24, 1559.	3.4	22
47	Theoretical and experimental analysis of overmodulation effects in volume holograms recorded on BB-640 emulsions. <i>Journal of Optics</i> , 2001, 3, 504-513.	1.5	21
48	Holographic Characteristics of an Acrylamide/Bisacrylamide Photopolymer in 40 μ m Thick Layers. <i>Physica Scripta</i> , 2005, , 66.	2.5	21
49	Multiplexed holographic data page storage on a polyvinyl alcohol/acrylamide photopolymer memory. <i>Applied Optics</i> , 2008, 47, 4448.	2.1	21
50	Exploring binary and ternary modulations on a PA-LCoS device for holographic data storage in a PVA/AA photopolymer. <i>Optics Express</i> , 2015, 23, 20459.	3.4	21
51	Experimental evidence of mixed gratings with a phase difference between the phase and amplitude grating in volume holograms. <i>Optics Express</i> , 2002, 10, 1374.	3.4	20
52	High-efficiency volume holograms recording on acrylamide and N,N ² -methylene-bis-acrylamide photopolymer with pulsed laser. <i>Journal of Modern Optics</i> , 2005, 52, 1575-1584.	1.3	20
53	Peristrophic multiplexed holograms recorded in a low toxicity photopolymer. <i>Optical Materials Express</i> , 2017, 7, 133.	3.0	20
54	Analysis of PVA/AA based photopolymers at the zero spatial frequency limit using interferometric methods. <i>Applied Optics</i> , 2008, 47, 2557.	2.1	19

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55	Relief diffracted elements recorded on absorbent photopolymers. <i>Optics Express</i> , 2012, 20, 11218.	3.4	19
56	Characterization and comparison of different photopolymers for low spatial frequency recording. <i>Optical Materials</i> , 2015, 44, 18-24.	3.6	19
57	Dimensional changes in slanted diffraction gratings recorded in photopolymers. <i>Optical Materials Express</i> , 2016, 6, 3455.	3.0	19
58	Silver halide sensitized gelatin derived from BB-640 holographic emulsion. <i>Applied Optics</i> , 1999, 38, 1348.	2.1	18
59	Analysis of monomer diffusion in depth in photopolymer materials. <i>Optics Communications</i> , 2007, 274, 43-49.	2.1	18
60	Linearization of conservative nonlinear oscillators. <i>European Journal of Physics</i> , 2009, 30, 259-270.	0.6	18
61	Optimization of Photopolymer Materials for the Fabrication of a Holographic Waveguide. <i>Polymers</i> , 2017, 9, 395.	4.5	18
62	Model for analyzing the effects of processing on recording material in thick holograms. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1992, 9, 1214.	1.5	17
63	Hologram recording in polyvinyl alcohol/acrylamide photopolymers by means of pulsed laser exposure. <i>Applied Optics</i> , 2002, 41, 2613.	2.1	17
64	Stabilization of volume gratings recorded in polyvinyl alcohol-acrylamide photopolymers with diffraction efficiencies higher than 90%. <i>Journal of Modern Optics</i> , 2004, 51, 491-503.	1.3	17
65	Spatial-phase-modulation-based study of polyvinyl-alcohol/acrylamide photopolymers in the low spatial frequency range. <i>Applied Optics</i> , 2009, 48, 4403.	2.1	17
66	Generation of diffractive optical elements onto a photopolymer using a liquid crystal display. , 2010, , .		17
67	Linearity in the response of photopolymers as optical recording media. <i>Optics Express</i> , 2013, 21, 10995.	3.4	17
68	Holographic Lenses in an Environment-Friendly Photopolymer. <i>Polymers</i> , 2018, 10, 302.	4.5	17
69	Non-local polymerization driven diffusion based model: general dependence of the polymerization rate to the exposure intensity. <i>Optics Express</i> , 2003, 11, 1876.	3.4	16
70	Hologram multiplexing in acrylamide hydrophilic photopolymers. <i>Optics Communications</i> , 2008, 281, 1354-1357.	2.1	16
71	Volume Holograms in Photopolymers: Comparison between Analytical and Rigorous Theories. <i>Materials</i> , 2012, 5, 1373-1388.	2.9	16
72	Biophotopolâ€™s energetic sensitivity improved in 3001¼m layers by tuning the recording wavelength. <i>Optical Materials</i> , 2016, 52, 111-115.	3.6	16

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73	Holographic system for copying holograms by using partially coherent light. Applied Optics, 1992, 31, 3312.	2.1	15
74	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
75	Analysis of the Imaging Characteristics of Holographic Waveguides Recorded in Photopolymers. Polymers, 2020, 12, 1485.	4.5	15
76	Accurate control of a liquid-crystal display to produce a homogenized Fourier transform for holographic memories. Optics Letters, 2007, 32, 2511.	3.3	14
77	A two-step method for recording holographic optical elements with partially coherent light. Journal of Optics, 1991, 22, 135-140.	0.3	13
78	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
79	Diffusion-based model to predict the conservation of gratings recorded in poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 502	2.1	13
80	Higher accurate approximate solutions for the simple pendulum in terms of elementary functions. European Journal of Physics, 2010, 31, L65-L70.	0.6	13
81	Holographic Characteristics of Photopolymers Containing Different Mixtures of Nematic Liquid Crystals. Polymers, 2019, 11, 325.	4.5	13
82	Silver halide sensitized gelatin holograms in Slavich PFG-01 red-sensitive emulsion. Journal of Modern Optics, 1999, 46, 1913-1925.	1.3	12
83	Analysis of multiplexed holograms stored in a thick PVA/AA photopolymer. Optics Communications, 2008, 281, 1480-1485.	2.1	12
84	Study of reflection gratings recorded in polyvinyl alcohol/acrylamide-based photopolymer. Applied Optics, 2009, 48, 6553.	2.1	12
85	Comparison of simplified theories in the analysis of the diffraction efficiency in surface-relief gratings. , 2012, , .		12
86	Holographic grating stability: influence of 4,4-azobis (4-cyanopentanoic acid) on various spatial frequencies. Applied Optics, 2013, 52, 6322.	1.8	12
87	Effective angular and wavelength modeling of parallel aligned liquid crystal devices. Optics and Lasers in Engineering, 2015, 74, 114-121.	3.8	12
88	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
89	LED-Cured Reflection Gratings Stored in an Acrylate-Based Photopolymer. Polymers, 2019, 11, 632.	4.5	12
90	Optimized spatial frequency response in silver halide sensitized gelatin. Applied Optics, 1992, 31, 4625.	2.1	11

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91	Silver halide sensitized gelatin as a holographic recording material. Optics and Laser Technology, 1995, 27, 285-292.	4.6	11
92	Optimization of a fixation-free rehalogenating bleach for BB-640 holographic emulsion. Journal of Modern Optics, 2000, 47, 1671-1679.	1.3	11
93	Harmonic balancing approach to nonlinear oscillations of a punctual charge in the electric field of charged ring. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 735-740.	2.1	11
94	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
95	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
96	Diffraction efficiency and signal-to-noise ratio of diffuse-object holograms in real time in polyvinyl alcohol photopolymers. Applied Optics, 1999, 38, 5548.	2.1	10
97	The influence of the development in silver halide sensitized gelatin holograms derived from PFG-01 plates. Optics Communications, 2000, 173, 161-167.	2.1	10
98	Determination of the refractive index and thickness of holographic silver halide materials by use of polarized reflectances. Applied Optics, 2002, 41, 6802.	2.1	10
99	Blazed Gratings Recorded in Absorbent Photopolymers. Materials, 2016, 9, 195.	2.9	10
100	Influence of R-10 bleaching on latent image formation in silver halide-sensitized gelatin. Applied Optics, 1992, 31, 3203.	2.1	9
101	Fixation-free bleached silver halide transmission holograms recorded on Slavich PFG-01 red sensitive plates. Journal of Modern Optics, 2001, 48, 1643-1655.	1.3	9
102	Improved maximum uniformity and capacity of multiple holograms recorded in absorbent photopolymers. Optics Express, 2007, 15, 9308.	3.4	9
103	Holographic lens recorded on photopolymers: fabrication and study of the image quality. Journal of Modern Optics, 2009, 56, 1288-1295.	1.3	9
104	ANALYSIS OF REFLECTION GRATINGS BY MEANS OF A MATRIX METHOD APPROACH. Progress in Electromagnetics Research, 2011, 118, 167-183.	4.4	9
105	Monomer diffusion in sustainable photopolymers for diffractive optics applications. Optical Materials, 2011, 33, 1626-1629.	3.6	9
106	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
107	Application of the Ronchi test to intraocular lenses: A comparison of theoretical and measured results. Applied Optics, 1993, 32, 4132.	2.1	8
108	Copying low spatial frequency diffraction gratings in photopolymer as phase holograms. Journal of Modern Optics, 2000, 47, 1089-1097.	1.3	8

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109	Experimental study of the acrylamide photopolymer with a pulsed laser. Optics Communications, 2001, 188, 163-166.	2.1	8
110	Complex Diffractive Optical Elements Stored in Photopolymers. Polymers, 2019, 11, 1920.	4.5	8
111	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
112	Spin-charge exchange in a stable radical-carbenium ion. Journal of the American Chemical Society, 1984, 106, 3365-3366.	13.7	7
113	Imaging in white light with a thick-phase transmission holographic doublet. Journal of Optics, 1989, 20, 263-268.	0.3	7
114	Effects of overmodulation in fixation-free rehalogenating bleached holograms. Applied Optics, 2001, 40, 3402.	2.1	7
115	Bleached silver halide volume holograms recorded on Slavich PFG-01 emulsion: The influence of the developer. Journal of Modern Optics, 2001, 48, 1479-1494.	1.3	7
116	Angular responses of the first diffracted order in over-modulated volume diffraction gratings. Journal of Modern Optics, 2004, 51, 1149-1162.	1.3	7
117	Classical polarimetric method revisited to analyse the modulation capabilities of parallel aligned liquid crystal on silicon displays. , 2012, , .		7
118	Diffractive and interferometric methods to characterize photopolymers with liquid crystal molecules as holographic recording material. Journal of the European Optical Society-Rapid Publications, 0, 7, .	1.9	7
119	Analytical modeling of blazed gratings on two-dimensional pixelated liquid crystal on silicon devices. Optical Engineering, 2020, 59, 1.	1.0	7
120	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
121	Diffuse-object Holograms in Silver Halide Sensitized Gelatin. Journal of Modern Optics, 1994, 41, 649-653.	1.3	6
122	New matrix formulation of spectacle magnification using pupil magnification. I. High myopia corrected with ophthalmic lenses. Ophthalmic and Physiological Optics, 1995, 15, 195-205.	2.0	6
123	Fixation-free rehalogenating bleached reflection holograms recorded on BB-640 plates. Optics Communications, 2000, 182, 107-114.	2.1	6
124	Analysis of Second and Third Diffracted Orders in Volume Diffraction Gratings Recorded on Photopolymers. Physica Scripta, 2005, , 58.	2.5	6
125	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
126	Considerations on â€œHarmonic balancing approach to nonlinear oscillations of a punctual charge in the electric field of charged ringâ€• Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4264-4265.	2.1	6

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127	Optimization of a holographic memory setup using an LCD and a PVA-based photopolymer. <i>Optik</i> , 2010, 121, 151-158.	2.9	6
128	Notes on "Application of the Hamiltonian approach to nonlinear oscillators with rational and irrational elastic terms". <i>Mathematical and Computer Modelling</i> , 2011, 54, 3204-3209.	2.0	6
129	Comments on "A finite extensibility nonlinear oscillator". <i>Applied Mathematics and Computation</i> , 2012, 218, 6168-6175.	2.2	6
130	Development of a unified FDTD-FEM library for electromagnetic analysis with CPU and GPU computing. <i>Journal of Supercomputing</i> , 2013, 64, 28-37.	3.6	6
131	Performance analysis of SSE and AVX instructions in multi-core CPUs and GPU computing on FDTD scheme for solid and fluid vibration problems. <i>Journal of Supercomputing</i> , 2014, 70, 514-526.	3.6	6
132	Tunable Waveguides Couplers Based on HPDLC for See-Through Applications. <i>Polymers</i> , 2021, 13, 1858.	4.5	6
133	Green and wide acceptance angle solar concentrators. <i>Optics Express</i> , 2022, 30, 25366.	3.4	6
134	Elimination and minimization of the spherical aberration of intraocular lenses in high myopia. <i>Ophthalmic and Physiological Optics</i> , 1996, 16, 19-30.	2.0	5
135	Analysis and elimination of boundary reflections in transmission holograms. <i>Optics and Laser Technology</i> , 1998, 30, 555-560.	4.6	5
136	Improved spatial frequency response in silver halide sensitized gelatin holograms. <i>Optics Communications</i> , 1998, 155, 241-244.	2.1	5
137	Thick phase holographic gratings recorded on BB-640 and PFG-01 silver halide materials. <i>Journal of Optics</i> , 2003, 5, S183-S188.	1.5	5
138	Study of influence of ACPA in holographic reflection gratings recorded in PVA/AA based photopolymer. <i>Proceedings of SPIE</i> , 2010, , .	0.8	5
139	Analysis of the fabrication of diffractive optical elements in photopolymers. <i>Proceedings of SPIE</i> , 2013, , .	0.8	5
140	Analysis of holographic reflection gratings recorded in polyvinyl alcohol/acrylamide photopolymer. <i>Applied Optics</i> , 2013, 52, 1581.	1.8	5
141	Model of low spatial frequency diffractive elements recorded in photopolymers during and after recording. <i>Optical Materials</i> , 2014, 38, 46-52.	3.6	5
142	Split-field finite-difference time-domain method for second-harmonic generation in two-dimensionally periodic structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 664.	2.1	5
143	Additives Type Schiff's Base as Modifiers of the Optical Response in Holographic Polymer-Dispersed Liquid Crystals. <i>Polymers</i> , 2017, 9, 298.	4.5	5
144	Simplified physical modeling of parallel-aligned liquid crystal devices at highly non-linear tilt angle profiles. <i>Optics Express</i> , 2018, 26, 12723.	3.4	5

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145	Aberration-Based Quality Metrics in Holographic Lenses. <i>Polymers</i> , 2020, 12, 993.	4.5	5
146	Silver-Halide Sensitized Holograms And Their Applications. , 1989, 1136, 53.		4
147	Holographic collimator of diameter 200 mm in silver halide sensitized gelatin. <i>Journal of Optics</i> , 1990, 21, 211-215.	0.3	4
148	Polarization influences on the efficiency of noise gratings recorded in silver halide holograms. <i>Applied Optics</i> , 1993, 32, 7155.	2.1	4
149	Calculation of shear angles in holographic gratings recorded in bleached silver-halide emulsions. <i>Applied Physics B: Lasers and Optics</i> , 1994, 59, 553-561.	2.2	4
150	Copying computer-generated-holographic interconnects by the use of partially coherent light. <i>Applied Optics</i> , 1994, 33, 1431.	2.1	4
151	New matrix formulation of spectacle magnification using pupil magnification. I. High myopia corrected with ophthalmic lenses. <i>Ophthalmic and Physiological Optics</i> , 1995, 15, 195-205.	2.0	4
152	A new matrix formulation of spectacle magnification using pupil magnification. II and III: High myopia corrected with contact lenses and intraocular lenses. <i>Ophthalmic and Physiological Optics</i> , 1996, 16, 498-506.	2.0	4
153	Comparison of diffuse-object holograms and holographic gratings stored on acrylamide photopolymers. <i>Optik</i> , 2002, 113, 111-116.	2.9	4
154	Influence of the fringe visibility on the characteristics of holograms recorded in photopolymer material. <i>Optik</i> , 2003, 114, 401-406.	2.9	4
155	Characterization and optimization of liquid crystal displays for data storage applications. , 2007, , .		4
156	Accuracy analysis of simplified and rigorous numerical methods applied to binary nanopatterning gratings in non-paraxial domain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 2245-2250.	2.1	4
157	Experimental Conditions to Obtain Photopolymerization Induced Phase Separation Process in Liquid Crystal-Photopolymer Composite Materials under Laser Exposure. <i>International Journal of Polymer Science</i> , 2014, 2014, 1-5.	2.7	4
158	Influence of 4,4-azobis (4-cyanopentanoic acid) in Transmission and Reflection Gratings Stored in a PVA/AA Photopolymer. <i>Materials</i> , 2016, 9, 194.	2.9	4
159	Numerical Analysis of H-PDLC Using the Split-Field Finite-Difference Time-Domain Method. <i>Polymers</i> , 2018, 10, 465.	4.5	4
160	Influence of Tert-Butylthiol and Tetrahydrofuran on the Holographic Characteristics of a Polymer Dispersed Liquid Crystal: A Research Line Toward a Specific Sensor for Natural Gas and Liquefied Petroleum Gas. <i>Polymers</i> , 2019, 11, 254.	4.5	4
161	Accurate, Efficient and Rigorous Numerical Analysis of 3D H-PDLC Gratings. <i>Materials</i> , 2020, 13, 3725.	2.9	4
162	Polarimetric analysis of cross-talk phenomena induced by the pixelation in PA-LCoS devices. <i>Optics and Laser Technology</i> , 2022, 152, 108125.	4.6	4

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163	Processing of Holographic Hydrogels in Liquid Media: A Study by High-Performance Liquid Chromatography and Diffraction Efficiency. <i>Polymers</i> , 2022, 14, 2089.	4.5	4
164	Influences of Recording Geometry Parameters on Diffraction Efficiency in Bleached Silver Halide Transmission Holograms. <i>Journal of Modern Optics</i> , 1992, 39, 1855-1861.	1.3	3
165	Triplet design as an intraocular lens for high myopia. <i>Applied Optics</i> , 1995, 34, 2898.	2.1	3
166	Clarifications to the paper "Holographic characteristics of a 1-mm-thick photopolymer to be used in holographic memories". <i>Applied Optics</i> , 2005, 44, 1448.	2.1	3
167	Multiplexing holograms for data page storage as a holographic memory in a PVA/AA photopolymer. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
168	Linearized Harmonic Balancing Approach for Accurate Solutions to the Dynamically Shifted Oscillator. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009, 10, .	1.0	3
169	Binary Intensity Modulation and Hybrid Ternary Modulation Applied to Multiplexing Objects Using Holographic Data Storage on a PVA/AA Photopolymer. <i>International Journal of Polymer Science</i> , 2014, 2014, 1-8.	2.7	3
170	Static and dynamic effects of flicker in phase multilevel elements on LCoS devices. , 2015, , .		3
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