

Manuel Ortuo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

1,354

citations

21

h-index

32

g-index

114

ext. papers

1,628

ext. citations

2.5

avg, IF

3.82

L-index

#	Paper	IF	Citations
86	LED-Cured Reflection Gratings Stored in an Acrylate-Based Photopolymer. <i>Polymers</i> , 2019 , 11,	4.5	2
85	Holographic Characteristics of Photopolymers Containing Different Mixtures of Nematic Liquid Crystals. <i>Polymers</i> , 2019 , 11,	4.5	7
84	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,	4.5	3
83	Holographic Lenses in an Environment-Friendly Photopolymer. <i>Polymers</i> , 2018 , 10,	4.5	11
82	Optimization of Photopolymer Materials for the Fabrication of a Holographic Waveguide. <i>Polymers</i> , 2017 , 9,	4.5	10
81	Peristrophic multiplexed holograms recorded in a low toxicity photopolymer. <i>Optical Materials Express</i> , 2017 , 7, 133	2.6	9
80	Additives Type Schiff's Base as Modifiers of the Optical Response in Holographic Polymer-Dispersed Liquid Crystals. <i>Polymers</i> , 2017 , 9,	4.5	5
79	Biophotopolymers energetic sensitivity improved in 300nm layers by tuning the recording wavelength. <i>Optical Materials</i> , 2016 , 52, 111-115	3.3	7
78	Predictive capability of average Stokes polarimetry for simulation of phase multilevel elements onto LCoS devices. <i>Applied Optics</i> , 2015 , 54, 1379-86	1.7	16
77	Study of the index matching for different photopolymers 2015 ,		1
76	Diffraction efficiency improvement in high spatial frequency holographic gratings stored in PVA/AA photopolymers: several ACPA concentrations. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 015401	1.7	2
75	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	2.4	4
74	Averaged Stokes polarimetry applied to evaluate retardance and flicker in PA-LCoS devices. <i>Optics Express</i> , 2014 , 22, 15064-74	3.3	35
73	Electrical dependencies of optical modulation capabilities in digitally addressed parallel aligned liquid crystal on silicon devices. <i>Optical Engineering</i> , 2014 , 53, 067104	1.1	18
72	Improving the performance of PVA/AA photopolymers for holographic recording. <i>Optical Materials</i> , 2013 , 35, 668-673	3.3	21
71	Analysis of holographic reflection gratings recorded in polyvinyl alcohol/acrylamide photopolymer. <i>Applied Optics</i> , 2013 , 52, 1581-90	1.7	4
70	Overmodulation Control in the Optimization of a H-PDLC Device with Ethyl Eosin as Dye. <i>International Journal of Polymer Science</i> , 2013 , 2013, 1-8	2.4	10

69	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	16
68	A dynamic beam splitter using polymer dispersed liquid crystal materials 2012 ,		2
67	Diffractive and interferometric methods to characterize photopolymers with liquid crystal molecules as holographic recording material. <i>Journal of the European Optical Society-Rapid Publications</i> , 2012 , 7,	2.5	5
66	Biophotopol: A Sustainable Photopolymer for Holographic Data Storage Applications. <i>Materials</i> , 2012 , 5, 772-783	3.5	17
65	Volume Holograms in Photopolymers: Comparison between Analytical and Rigorous Theories. <i>Materials</i> , 2012 , 5, 1373-1388	3.5	11
64	Zero Spatial Frequency Limit: Method to Characterize Photopolymers as Optical Recording Material. <i>Research Letters in Physics</i> , 2012 , 2012, 1-9		2
63	Analysis of the geometry of a holographic memory setup 2012 ,		1
62	Approximate expressions for the period of a simple pendulum using a Taylor series expansion. <i>European Journal of Physics</i> , 2011 , 32, 1303-1310	0.8	21
61	Comparison of photopolymers for optical data storage applications and relief diffractive optical elements recorded onto photopolymers 2011 ,		1
60	Performance improvement of high-thickness photopolymers for holographic data storage applications 2011 ,		1
59	Monomer diffusion in sustainable photopolymers for diffractive optics applications. <i>Optical Materials</i> , 2011 , 33, 1626-1629	3.3	8
58	High environmental compatibility photopolymers compared to PVA/AA based materials at zero spatial frequency limit. <i>Optical Materials</i> , 2011 , 33, 531-537	3.3	22
57	An experiment in heat conduction using hollow cylinders. <i>European Journal of Physics</i> , 2011 , 32, 1065-1078		5
56	Higher accurate approximate solutions for the simple pendulum in terms of elementary functions. <i>European Journal of Physics</i> , 2010 , 31, L65-L70	0.8	12
55	Optimization of a holographic memory setup using an LCD and a PVA-based photopolymer. <i>Optik</i> , 2010 , 121, 151-158	2.5	4
54	A Novel Rational Harmonic Balance Approach for Periodic Solutions of Conservative Nonlinear Oscillators. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009 , 10, 13-26	1.8	11
53	Multiplexing holograms for data page storage using a LCD as hybrid ternary modulation 2009 ,		1
52	Application of a modified HeĀ homotopy perturbation method to obtain higher-order approximations to a nonlinear oscillator with discontinuities. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 601-610	2.1	48

51	Linear response deviations during recording of diffraction gratings in photopolymers. <i>Optics Express</i> , 2009 , 17, 13193-201	3.3	8
50	In dark analysis of PVA/AA materials at very low spatial frequencies: phase modulation evolution and diffusion estimation. <i>Optics Express</i> , 2009 , 17, 18279-91	3.3	44
49	Analysis of PVA/AA based photopolymers at the zero spatial frequency limit using interferometric methods. <i>Applied Optics</i> , 2008 , 47, 2557-63	1.7	13
48	Multiplexed holographic data page storage on a polyvinyl alcohol/acrylamide photopolymer memory. <i>Applied Optics</i> , 2008 , 47, 4448-56	0.2	15
47	Multiplexing holograms for data page storage as a holographic memory in a PVA/AA photopolymer 2008 ,		2
46	Direct analysis of monomer diffusion times in polyvinyl/acrylamide materials. <i>Applied Physics Letters</i> , 2008 , 92, 073306	3.4	24
45	Hologram multiplexing in acrylamide hydrophilic photopolymers. <i>Optics Communications</i> , 2008 , 281, 1354-1357	2	14
44	Analysis of multiplexed holograms stored in a thick PVA/AA photopolymer. <i>Optics Communications</i> , 2008 , 281, 1480-1485	2	8
43	Analysis of monomer diffusion in depth in photopolymer materials. <i>Optics Communications</i> , 2007 , 274, 43-49	2	15
42	Pyromethene dye and non-redox initiator system in a hydrophilic binder photopolymer. <i>Optical Materials</i> , 2007 , 30, 227-230	3.3	6
41	Application of the harmonic balance method to a nonlinear oscillator typified by a mass attached to a stretched wire. <i>Journal of Sound and Vibration</i> , 2007 , 302, 1018-1029	3.9	75
40	Comments on Investigation of the properties of the period for the nonlinear oscillator $x'' + (1 + x^2)x = 0$ <i>Journal of Sound and Vibration</i> , 2007 , 303, 925-930	3.9	13
39	Application of a modified He's homotopy perturbation method to obtain higher-order approximations of an $x^{1/3}$ force nonlinear oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 371, 421-426	2.3	78
38	Characterization and optimization of liquid crystal displays for data storage applications 2007 ,		2
37	Optimization of a holographic memory setup using a LCD and a PVA based photopolymer 2007 ,		1
36	Accurate control of a liquid-crystal display to produce a homogenized Fourier transform for holographic memories. <i>Optics Letters</i> , 2007 , 32, 2511-3	3	10
35	New photopolymer holographic recording material with sustainable design. <i>Optics Express</i> , 2007 , 15, 12425-35	3.3	41
34	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, 5368-73 ^{1.7}		26

33	Real-time interferometric characterization of a polyvinyl alcohol based photopolymer at the zero spatial frequency limit. <i>Applied Optics</i> , 2007 , 46, 7506-12	1.7	16
32	Analysis of amplitude and phase coupling in volume holography 2006 , 6252, 338		
31	3-dimensional characterization of thick grating formation in PVA/AA based photopolymer. <i>Optics Express</i> , 2006 , 14, 5121-8	3.3	25
30	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, 7661-6	1.7	52
29	Multiplexing holograms in an acrylamide photopolymer 2006 ,		1
28	3-dimensional analysis of holographic memories based on photopolymers using finite differences method 2006 , 6187, 307		
27	Effect of the incorporation of N,N'-methylene-bis-acrylamide on the multiplexing of holograms in a hydrophilic acrylamide photopolymer. <i>Optics Communications</i> , 2006 , 268, 133-137	2	5
26	High-efficiency volume holograms recording on acrylamide and N,N'-methylene-bis-acrylamide photopolymer with pulsed laser. <i>Journal of Modern Optics</i> , 2005 , 52, 1575-1584	1.1	16
25	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	1.7	3
24	Characterization of polyvinyl alcohol/acrylamide holographic memories with a first-harmonic diffusion model. <i>Applied Optics</i> , 2005 , 44, 6205-10	1.7	14
23	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	1.7	69
22	Physical and effective optical thickness of holographic diffraction gratings recorded in photopolymers. <i>Optics Express</i> , 2005 , 13, 1939-47	3.3	51
21	3 Dimensional analysis of holographic photopolymers based memories. <i>Optics Express</i> , 2005 , 13, 3543-57,3	3.3	36
20	Holographic Characteristics of an Acrylamide/Bisacrylamide Photopolymer in 40 μ m Thick Layers. <i>Physica Scripta</i> , 2005 , 66	2.6	12
19	Analysis of Second and Third Diffracted Orders in Volume Diffraction Gratings Recorded on Photopolymers. <i>Physica Scripta</i> , 2005 , 58	2.6	6
18	Maximum effective optical thickness of the gratings recorded in photopolymers 2005 ,		2
17	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	1.1	12
16	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. <i>Optics Communications</i> , 2004 , 233, 311-322	2	23

15	Depth attenuated refractive index profiles in holographic gratings recorded in photopolymer materials 2004 , 5456, 449		
14	Optimization of a PVA/acrylamide material for the recording of multiple diffraction gratings 2004 ,		1
13	Space-variant image processing with volume holography 2004 , 5456, 315		
12	High-efficiency volume holograms recording on acrylamide and N,N'methylene-bis-acrylamide photopolymer with pulsed laser 2004 ,		1
11	Holographic photopolymer materials with nonlocal and nonlinear response 2003 , 5216, 127		7
10	Comparison between a thin matrix decomposition method and the rigorous coupled wave theory applied to volume diffraction gratings. <i>Optik</i> , 2003 , 114, 529-534	2.5	2
9	Optimization of a 1 mm 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 ^{1,9}		64
8	Overmodulation effects in volume holograms recorded on photopolymers. <i>Optics Communications</i> , 2003 , 215, 263-269	2	31
7	Characterization of a PVA/acrylamide photopolymer. Influence of a cross-linking monomer in the final characteristics of the hologram. <i>Optics Communications</i> , 2003 , 224, 27-34	2	29
6	Influence of the fringe visibility on the characteristics of holograms recorded in photopolymer material. <i>Optik</i> , 2003 , 114, 401-406	2.5	4
5	Diffusion-based model to predict the conservation of gratings recorded in poly(vinyl alcohol)-acrylamide photopolymer. <i>Applied Optics</i> , 2003 , 42, 5839-45	1.7	9
4	Holographic characteristics of a 1-mm-thick photopolymer to be used in holographic memories. <i>Applied Optics</i> , 2003 , 42, 7008-12	1.7	31
3	Edge-enhanced imaging with polyvinyl alcohol/acrylamide photopolymer gratings. <i>Optics Letters</i> , 2003 , 28, 1510-2	3	26
2	First-harmonic diffusion-based model applied to a polyvinyl-alcohol/acrylamide-based photopolymer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 2052	1.7	36
1	Temporal evolution of the angular response of a holographic diffraction grating in PVA/acrylamide photopolymer. <i>Optics Express</i> , 2003 , 11, 181-90	3.3	21