

Vincent Toal

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89
papers

1,105
citations

19
h-index

29
g-index

115
ext. papers

1,285
ext. citations

2.5
avg, IF

3.99
L-index

#	Paper	IF	Citations
89	A visual indication of environmental humidity using a color changing hologram recorded in a self-developing photopolymer. <i>Applied Physics Letters</i> , 2008 , 92, 031109	3.4	80
88	Photopolymerizable nanocomposites for holographic recording and sensor application. <i>Applied Optics</i> , 2010 , 49, 3652-60	0.2	63
87	Investigation of the diffusion processes in a self-processing acrylamide-based photopolymer system. <i>Applied Optics</i> , 2004 , 43, 2900-5	1.7	59
86	Characterisation of the humidity and temperature responses of a reflection hologram recorded in acrylamide-based photopolymer. <i>Sensors and Actuators B: Chemical</i> , 2009 , 139, 35-38	8.5	55
85	Roughness measurement of metallic surfaces based on the laser speckle contrast method. <i>Optics and Lasers in Engineering</i> , 1998 , 30, 433-440	4.6	53
84	Two-way diffusion model for short-exposure holographic grating formation in acrylamide-based photopolymer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 197	1.7	51
83	Holographic patterning of acrylamide-based photopolymer surface. <i>Optics Express</i> , 2005 , 13, 4878-89	3.3	37
82	Acrylamide-based photopolymer for microholographic data storage. <i>Optical Materials</i> , 2006 , 28, 1329-1333	3.3	35
81	Characterization of an acrylamide-based photopolymer for data storage utilizing holographic angular multiplexing. <i>Journal of Optics</i> , 2005 , 7, 255-260		34
80	Electronic speckle-pattern interferometer using holographic optical elements for vibration measurements. <i>Optics Letters</i> , 2010 , 35, 3273-5	3	31
79	Optical Properties of Photopolymer Layers Doped with Aluminophosphate Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16767-16775	3.8	31
78	Hybrid Sensors Fabricated by Inkjet Printing and Holographic Patterning. <i>Chemistry of Materials</i> , 2015 , 27, 6097-6101	9.6	28
77	Study of the shrinkage caused by holographic grating formation in acrylamide based photopolymer film. <i>Optics Express</i> , 2011 , 19, 13395-404	3.3	26
76	Simple phase-shifting lateral shearing interferometer. <i>Optics Letters</i> , 2004 , 29, 1264-6	3	24
75	Raman spectroscopy for the characterization of the polymerization rate in an acrylamide-based photopolymer. <i>Applied Optics</i> , 2008 , 47, 206-12	1.7	23
74	Method for characterization of diffusion properties of photopolymerisable systems. <i>Optics Express</i> , 2008 , 16, 8487-97	3.3	23
73	Optical properties of photopolymerizable nanocomposites containing nanosized molecular sieves. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 044019	1.7	20

72	Nanozeolites doped photopolymer layers with reduced shrinkage. <i>Optics Express</i> , 2011 , 19, 25786-91	3.3	19
71	Population study of the variation in monochromatic aberrations of the normal human eye over the central visual field. <i>Optics Express</i> , 2007 , 15, 7367-80	3.3	19
70	Holographically recorded photopolymer diffractive optical element for holographic and electronic speckle-pattern interferometry. <i>Applied Optics</i> , 2002 , 41, 7475-9	1.7	18
69	Electronic speckle pattern shearing interferometer with a photopolymer holographic grating. <i>Applied Optics</i> , 2004 , 43, 2439-42	1.7	17
68	Development of a panchromatic acrylamide-based photopolymer for multicolor reflection holography. <i>Applied Optics</i> , 2010 , 49, 1400-5	0.2	16
67	Investigation of the light induced redistribution of zeolite Beta nanoparticles in an acrylamide-based photopolymer. <i>Journal of Optics</i> , 2009 , 11, 024016		16
66	Multipoint laser Doppler vibrometry using holographic optical elements and a CMOS digital camera. <i>Optics Letters</i> , 2008 , 33, 330-2	3	16
65	Electro-optical switching of liquid crystal diffraction gratings by using surface relief effect in the photopolymer. <i>Optics Communications</i> , 2007 , 273, 367-369	2	14
64	Shrinkage during holographic recording in photopolymer films determined by holographic interferometry. <i>Applied Optics</i> , 2013 , 52, 8519-27	1.7	13
63	Dual in-plane electronic speckle pattern interferometry system with electro-optical switching and phase shifting. <i>Applied Optics</i> , 1999 , 38, 666-73	1.7	13
62	Serialized holography for brand protection and authentication. <i>Applied Optics</i> , 2018 , 57, E131-E137	1.7	13
61	Light-induced redistribution of Si-MFI zeolite nanoparticles in acrylamide-based photopolymer holographic gratings. <i>Journal of Optics</i> , 2009 , 11, 034004		12
60	Photoinduced surface relief studies in an acrylamide-based photopolymer. <i>Journal of Optics</i> , 2007 , 9, 43-48		12
59	Holographic recording in nanoparticle-doped photopolymer 2006 ,		12
58	Monolithically integrated all-optical gate switch using intersubband transition in InGaAs/AlAsSb coupled double quantum wells. <i>Optics Express</i> , 2011 , 19, 13386-94	3.3	11
57	Studies of shrinkage as a result of holographic recording in acrylamide-based photopolymer film. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 899-902	2.6	11
56	Optical properties of silica MFI doped acrylamide-based photopolymer. <i>Journal of Optics</i> , 2009 , 11, 024015		11
55	Technique for characterization of dimensional changes in slanted holographic gratings by monitoring the angular selectivity profile. <i>Optics Letters</i> , 2008 , 33, 1981-3	3	11

54	Implementation of phase-only modulation utilizing a twisted nematic liquid crystal spatial light modulator. <i>Journal of Optics</i> , 2008 , 10, 085007		10
53	Hologram-based humidity indicator for domestic and packaging applications 2007 ,		9
52	Photopolymer diffractive optical elements in electronic speckle pattern shearing interferometry. <i>Optics and Lasers in Engineering</i> , 2006 , 44, 965-974	4.6	9
51	Optimization of an acrylamide-based photopolymer system for holographic inscription of surface patterns with sub-micron resolution. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 124012	1.7	8
50	Simple versatile shearing interferometer suitable for measurements on a microscopic scale. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 271-273	4.6	8
49	Vibration phase mapping using holographic optical element-based electronic speckle pattern interferometry. <i>Optics and Lasers in Engineering</i> , 2012 , 50, 1161-1167	4.6	7
48	Study of the photoinduced surface relief modulation in photopolymers caused by illumination with a Gaussian beam of light. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 124011	1.7	7
47	Development of a photopolymer holographic lens for collimation of light from a green light-emitting diode. <i>Applied Optics</i> , 2018 , 57, E163-E172	1.7	7
46	Application of phase shifting electronic speckle pattern interferometry in studies of photoinduced shrinkage of photopolymer layers. <i>Optics Express</i> , 2017 , 25, 9647-9653	3.3	6
45	Holographic recording in acrylamide photopolymers: thickness limitations. <i>Applied Optics</i> , 2009 , 48, 2642-2648	3.3	6
44	Least squares algorithm for rapid analysis of Fabry-Perot fringe patterns. <i>Journal of Optics</i> , 2005 , 7, S364-S367		6
43	Holographic beam-shaping diffractive diffusers fabricated by using controlled laser speckle. <i>Optics Express</i> , 2018 , 26, 8916-8922	3.3	5
42	In-plane sensitive electronic speckle pattern interferometer using a diffractive holographic optical element. <i>American Journal of Physics</i> , 2011 , 79, 389-391	0.7	5
41	Nanoparticle Doped Photopolymers for Holographic Applications 2009 , 559-589		5
40	Electro-optical switching of the holographic polymer-dispersed liquid crystal diffraction gratings. <i>Journal of Optics</i> , 2009 , 11, 024023		5
39	Compact electronic speckle pattern interferometer using a near infrared diode laser and a reflection holographic optical element. <i>Journal of Optics</i> , 2006 , 8, 182-188		5
38	An interferometric linear in-plane position transducer. <i>Optics and Laser Technology</i> , 1992 , 24, 59-65	4.2	5
37	Phase-stepped gauge block interferometry using a frequency-tunable visible laser diode. <i>Applied Optics</i> , 2006 , 45, 5607-13	1.7	4

36	Holographic and Electronic Speckle-Pattern Interferometry using a Photopolymer Recording Material. <i>Strain</i> , 2004 , 40, 79-81	1.7	4
35	Holographic recording of patterns in thin film acrylamide-based photopolymer 2005 ,		4
34	Measurements of optical distortion arising from thermal turbulence with application to bubble chambers. <i>Journal Physics D: Applied Physics</i> , 1976 , 9, 2413-2422	3	4
33	Determination of threshold exposure and intensity for recording holograms in thick green-sensitive acrylamide-based photopolymer. <i>Applied Optics</i> , 2010 , 49, 5276-83	0.2	3
32	Two way diffusion model for the recording mechanism in a self developing dry acrylamide photopolymer 2006 ,		3
31	A simple approach to phase holography. <i>American Journal of Physics</i> , 2003 , 71, 948-949	0.7	3
30	Modernization of the Hilger & Watts gauge-block interferometer. <i>Optical Engineering</i> , 2005 , 44, 035601	1.1	3
29	Applications of a self-developing photopolymer material: holographic interferometry and high-efficiency diffractive optical elements 1998 ,		3
28	Real-time shrinkage studies in photopolymer films using holographic interferometry 2012 ,		2
27	Laser Doppler Vibrometry system using the synthetic-heterodyne interferometric demodulation scheme implemented on a CMOS DSP camera 2008 ,		2
26	Mechanical characterization of unplasticised polyvinylchloride thick pipes by optical methods. <i>Optics and Lasers in Engineering</i> , 2004 , 41, 889-900	4.6	2
25	Investigation of polymerization rate in an acrylamide-based photopolymer using Raman spectroscopy 2005 , 5826, 75		2
24	A simple interferometric linear position transducer. <i>Optics and Laser Technology</i> , 1991 , 23, 50-53	4.2	2
23	Determination of optical distortions caused by thermal turbulence. <i>Journal of Physics E: Scientific Instruments</i> , 1976 , 9, 576-579		2
22	Ocular microtremor laser speckle metrology 2009 ,		2
21	Fabrication and analysis of volume phase holographic cylindrical lens 2016 ,		2
20	Compact holographic optical element-based electronic speckle pattern interferometer for rotation and vibration measurements 2017 ,		1
19	Research on Holographic Sensors and Novel Photopolymers at the Centre for Industrial and Engineering Optics 2013 ,		1

18	Optical patterning of photopolymerisable materials 2010 ,		1
17	Out-of-plane vibration analysis with a transmission holographic-optical-element-based electronic speckle pattern interferometer 2009 ,		1
16	Fabrication of switchable liquid crystal devices using surface relief gratings in photopolymer. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 198-201	2.1	1
15	HOLOGRAPHIC RECORDING IN CORONA CHARGED ACRYLAMIDE-BASED MFI-ZEOLITE PHOTOPOLYMER. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2011 , 20, 271-279	0.8	1
14	Whole field out-of-plane vibration analysis with a HOE-based ESPI system 2008 ,		1
13	Simple electronic speckle pattern shearing interferometer with a holographic grating as a shearing element 2005 , 5962, 669		1
12	Study of an acrylamide-based photopolymer for use as a holographic data storage medium 2005 ,		1
11	Transient gratings in dichromated sugar solutions. <i>Applied Optics</i> , 1990 , 29, 5315-7	1.7	1
10	A multiple laser beam probe system for turbulence diagnostics. <i>Optics and Laser Technology</i> , 1976 , 8, 227-231	4.2	1
9	Holographic Security 2020 , 191-206		1
8	Compositional Changes for Reduction of Polymerisation-Induced Shrinkage in Holographic Photopolymers. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-11	1.5	1
7	Recording of high efficiency volume Bragg gratings in a photopolymer using diffraction from very weak pre-recorded gratings. <i>Optical Data Processing and Storage</i> , 2016 , 2,		1
6	Replay at optical communications wavelengths of holographic gratings recorded in the visible 2006 , 6252, 31		0
5	Double-Glazing Interferometry. <i>Physics Teacher</i> , 2009 , 47, 295-296	0.4	
4	Monomer diffusion rates in photopolymer material Part I Low spatial frequency holographic gratings: comment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 458	1.7	
3	Holographic optical elements for combined holographic and digital speckle pattern interferometry 2003 , 4933, 239		
2	Evaluation of high-frequency vibrations using electronic speckle pattern interferometry 2003 , 4876, 1054		
1	Modelling Two-Dimensional Photopolymer Patterns Produced with Multiple-Beam Holography. <i>Mathematics in Industry</i> , 2012 , 365-371	0.2	

