

Suzanne Martin

List of Publications by Citations

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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.

50
papers

779
citations

16
h-index

26
g-index

66
ext. papers

933
ext. citations

3
avg, IF

3.82
L-index

#	Paper	IF	Citations
50	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
49	Investigation of the diffusion processes in a self-processing acrylamide-based photopolymer system. <i>Applied Optics</i> , 2004 , 43, 2900-5	1.7	59
48	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
47	Using acrylamide-based photopolymers for fabrication of holographic optical elements in solar energy applications. <i>Applied Optics</i> , 2014 , 53, 1343-53	1.7	53
46	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
45	Color-Selective 2.5D Holograms on Large-Area Flexible Substrates for Sensing and Multilevel Security. <i>Advanced Optical Materials</i> , 2016 , 4, 1589-1600	8.1	38
44	Acrylamide-based photopolymer for microholographic data storage. <i>Optical Materials</i> , 2006 , 28, 1329-1333	3.3	35
43	Characterization of an acrylamide-based photopolymer for data storage utilizing holographic angular multiplexing. <i>Journal of Optics</i> , 2005 , 7, 255-260		34
42	Hybrid Sensors Fabricated by Inkjet Printing and Holographic Patterning. <i>Chemistry of Materials</i> , 2015 , 27, 6097-6101	9.6	28
41	Humidity and temperature effect on properties of transmission gratings recorded in PVA/AA-based photopolymer layers. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 105301	1.7	27
40	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
39	Method for characterization of diffusion properties of photopolymerisable systems. <i>Optics Express</i> , 2008 , 16, 8487-97	3.3	23
38	Holographically recorded photopolymer diffractive optical element for holographic and electronic speckle-pattern interferometry. <i>Applied Optics</i> , 2002 , 41, 7475-9	1.7	18
37	Self-processing photopolymer materials for versatile design and fabrication of holographic sensors and interactive holograms. <i>Applied Optics</i> , 2018 , 57, E173-E183	1.7	17
36	Electronic speckle pattern shearing interferometer with a photopolymer holographic grating. <i>Applied Optics</i> , 2004 , 43, 2439-42	1.7	17
35	Investigation of the sensitivity to humidity of an acrylamide-based photopolymer containing N-phenylglycine as a photoinitiator. <i>Optical Materials</i> , 2014 , 37, 810-815	3.3	16
34	Humidity and temperature induced changes in the diffraction efficiency and the Bragg angle of slanted photopolymer-based holographic gratings. <i>Sensors and Actuators B: Chemical</i> , 2017 , 239, 776-785	8.5	16

33	Development of a panchromatic acrylamide-based photopolymer for multicolor reflection holography. <i>Applied Optics</i> , 2010 , 49, 1400-5	0.2	16
32	Multipoint laser Doppler vibrometry using holographic optical elements and a CMOS digital camera. <i>Optics Letters</i> , 2008 , 33, 330-2	3	16
31	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
30	Development and testing of low spatial frequency holographic concentrator elements for collection of solar energy. <i>Solar Energy</i> , 2017 , 155, 103-109	6.8	13
29	N-isopropylacrylamide-based photopolymer for holographic recording of thermosensitive transmission and reflection gratings. <i>Applied Optics</i> , 2017 , 56, 6348-6356	1.7	13
28	Serialized holography for brand protection and authentication. <i>Applied Optics</i> , 2018 , 57, E131-E137	1.7	13
27	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
26	LTL type nanozeolites utilized in surface photonics structures for environmental sensors. <i>Microporous and Mesoporous Materials</i> , 2018 , 261, 268-274	5.3	10
25	Diffractive Optical Elements with a Large Angle of Operation Recorded in Acrylamide Based Photopolymer on Flexible Substrates. <i>International Journal of Polymer Science</i> , 2014 , 2014, 1-7	2.4	9
24	Photopolymer diffractive optical elements in electronic speckle pattern shearing interferometry. <i>Optics and Lasers in Engineering</i> , 2006 , 44, 965-974	4.6	9
23	Photonic Materials for Holographic Sensing. <i>Springer Series in Materials Science</i> , 2016 , 315-359	0.9	7
22	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
21	Holographic recording in acrylamide photopolymers: thickness limitations. <i>Applied Optics</i> , 2009 , 48, 2642-2648	2.8	6
20	Holographic beam-shaping diffractive diffusers fabricated by using controlled laser speckle. <i>Optics Express</i> , 2018 , 26, 8916-8922	3.3	5
19	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
18	Holographically Recorded Low Spatial Frequency Volume Bragg Gratings and Holographic Optical Elements 2017 ,		4
17	Stacked volume holographic gratings for extending the operational wavelength range in LED and solar applications. <i>Applied Optics</i> , 2020 , 59, 2569-2579	1.7	4
16	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

15	Two way diffusion model for the recording mechanism in a self developing dry acrylamide photopolymer 2006 ,		3
14	Spectroscopic study of food and food toxins 2003 ,		3
13	Applications of a self-developing photopolymer material: holographic interferometry and high-efficiency diffractive optical elements 1998 ,		3
12	Study of the Effect of Methyl-diethanolamine Initiator on the Recording Properties of Acrylamide Based Photopolymer. <i>Polymers</i> , 2020 , 12,	4.5	2
11	Investigation of polymerization rate in an acrylamide-based photopolymer using Raman spectroscopy 2005 , 5826, 75		2
10	Development and Testing of a Dual-Wavelength Sensitive Photopolymer Layer for Applications in Stacking of HOE Lenses. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5564	2.6	2
9	Humidity and temperature response of photopolymer-based holographic gratings 2015 ,		1
8	Research on Holographic Sensors and Novel Photopolymers at the Centre for Industrial and Engineering Optics 2013 ,		1
7	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
6	Simple electronic speckle pattern shearing interferometer with a holographic grating as a shearing element 2005 , 5962, 669		1
5	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
4	Replay at optical communications wavelengths of holographic gratings recorded in the visible 2006 , 6252, 31		0
3	Temperature-Sensitive Holograms with Switchable Memory. <i>Advanced Photonics Research</i> , 2021 , 2, 2100062	1.6	0
2	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	
1	Holographic optical elements for combined holographic and digital speckle pattern interferometry 2003 , 4933, 239		