

Julien H Lumeau

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.

87
papers

1,036
citations

17
h-index

27
g-index

117
ext. papers

1,359
ext. citations

3.4
avg, IF

4.3
L-index

#	Paper	IF	Citations
87	Multipass lock-in thermography for the study of optical coating absorption.. <i>Applied Optics</i> , 2022 , 61, 978-988	1.7	0
86	Preventing Corrosion of Aluminum Metal with Nanometer-Thick Films of Al ₂ O ₃ Capped with TiO ₂ for Ultraviolet Plasmonics. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7199-7205	5.6	4
85	Reconfigurable Flat Optics with Programmable Reflection Amplitude Using Lithography-Free Phase-Change Material Ultra-Thin Films. <i>Advanced Optical Materials</i> , 2021 , 9, 2001291	8.1	9
84	Beam-size effects on the measurement of sub-picosecond intrinsic laser induced damage threshold of dielectric oxide coatings. <i>Applied Optics</i> , 2021 , 60, 8569-8578	1.7	1
83	Automated optical monitoring wavelength selection for thin-film filters. <i>Optics Express</i> , 2021 , 29, 33398-33413	3.3	13
82	Excitation of Bloch Surface Waves in Zero-Admittance Multilayers for High-Sensitivity Sensor Applications. <i>Physical Review Applied</i> , 2020 , 13,	4.3	7
81	In-situ interferometric monitoring of optical coatings. <i>Optics Express</i> , 2020 , 28, 22012-22026	3.3	0
80	Adhesion layer influence on controlling the local temperature in plasmonic gold nanoholes. <i>Nanoscale</i> , 2020 , 12, 2524-2531	7.7	8
79	CMOS-compatible all-dielectric metalens for improving pixel photodetector arrays. <i>APL Photonics</i> , 2020 , 5, 116105	5.2	8
78	Enhanced Four-Wave Mixing in Doubly Resonant Si Nanoresonators. <i>ACS Photonics</i> , 2019 , 6, 1295-1301	6.3	18
77	Extending Single-Molecule Förster Resonance Energy Transfer (FRET) Range beyond 10 Nanometers in Zero-Mode Waveguides. <i>ACS Nano</i> , 2019 , 13, 8469-8480	16.7	30
76	Broadband antireflection coatings for visible and infrared ranges. <i>CEAS Space Journal</i> , 2019 , 11, 567-578	1.2	6
75	High-performance thin-film optical filters with stress compensation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019 , 36, C113-C121	1.8	6
74	Semi-automated method for the determination of the all-optical monitoring strategy of complex thin-film filters. <i>Optics Express</i> , 2019 , 27, 12373-12390	3.3	4
73	Photosensitive chalcogenide metasurfaces supporting bound states in the continuum. <i>Optics Express</i> , 2019 , 27, 33847-33853	3.3	15
72	Large aperture, highly uniform narrow bandpass Fabry-Perot filter using photosensitive AsS thin films. <i>Optics Letters</i> , 2019 , 44, 351-354	3	3
71	Linearly variable filters fabricated by magnetron sputtering technology 2019 ,		1

70	Use of a broadband monitoring system for the determination of the optical constants of a dielectric bilayer. <i>Applied Optics</i> , 2018 , 57, 877-883	1.7	3
69	Trinary mappings: a tool for the determination of potential spectral paths for optical monitoring of optical interference filters. <i>Applied Optics</i> , 2018 , 57, 7012-7020	1.7	2
68	Coating stress analysis and compensation for iridium-based x-ray mirrors. <i>Applied Optics</i> , 2018 , 57, 8775-8779	1.7	6
67	Complex optical interference filters with stress compensation for space applications. <i>CEAS Space Journal</i> , 2017 , 9, 441-449	1.2	13
66	A review of the photo-thermal mechanism and crystallization of photo-thermo-refractive (PTR) glass. <i>International Materials Reviews</i> , 2017 , 62, 348-366	16.1	21
65	Accurate analysis of mechanical stress in dielectric multilayers. <i>Optics Letters</i> , 2017 , 42, 3217-3220	3	8
64	Determination of the optical constants of a dielectric layer by processing in situ spectral transmittance measurements along the time dimension. <i>Applied Optics</i> , 2017 , 56, C181-C187	0.2	6
63	In situ optical monitoring of Fabry-Perot multilayer structures: analysis of current techniques and optimized procedures. <i>Optics Express</i> , 2017 , 25, 18040-18055	3.3	6
62	Micromirrors with controlled amplitude and phase. <i>Applied Optics</i> , 2017 , 56, 5655-5660	1.7	1
61	All-Dielectric Silicon Nanogap Antennas To Enhance the Fluorescence of Single Molecules. <i>Nano Letters</i> , 2016 , 16, 5143-51	11.5	147
60	Versatile digital micromirror device-based method for the recording of multilevel optical diffractive elements in photosensitive chalcogenide layers (AMTIR-1). <i>Optics Letters</i> , 2016 , 41, 3415-8	3	2
59	Analysis of laser energy deposition leading to damage and ablation of HfO ₂ and Nb ₂ O ₅ single layers submitted to 500 fs pulses at 1030 and 343 nm. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	1
58	Advanced optical interference filters based on metal and dielectric layers. <i>Optics Express</i> , 2016 , 24, 20925-37	3.3	8
57	Optical characterization of photosensitive AMTIR-1 chalcogenide thin layers deposited by electron beam deposition. <i>Journal of Non-Crystalline Solids</i> , 2016 , 442, 22-28	3.9	4
56	Electron Paramagnetic Resonance (EPR) studies on the photo-thermo ionization process of photo-thermo-refractive glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 452, 320-324	3.9	11
55	Saturation of multiplexed volume Bragg grating recording. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015 , 32, 22-7	1.8	1
54	Metric for the measurement of the quality of complex beams: a theoretical study. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015 , 32, 538-48	1.8	3
53	2D-array pixelated optical interference filters 2015 ,		2

52	Fabrication of binary volumetric diffractive optical elements in photosensitive chalcogenide AMTIR-1 layers. <i>Optics Letters</i> , 2015 , 40, 3233-6	3	4
51	Complex optical interference filter with stress compensation 2015 ,		1
50	Gradient of refractive index (GRIN) effect in photo-thermo-refractive glass. <i>Applied Optics</i> , 2015 , 54, 1587	1.7	3
49	Pixelated filters for spatial imaging 2015 ,		2
48	X-ray diffraction study of NaF nano-crystals in photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , 2014 , 405, 188-195	3.9	4
47	Absorption and scattering in photo-thermo-refractive glass induced by UV-exposure and thermal development. <i>Optical Materials</i> , 2014 , 36, 621-627	3.3	12
46	DBR and DFB lasers in neodymium- and ytterbium-doped photothermorefractive glasses. <i>Optics Letters</i> , 2014 , 39, 2156-9	3	7
45	Mechanisms and kinetics of short pulse laser-induced destruction of silver-containing nanoparticles in multicomponent silicate photo-thermo-refractive glass. <i>Applied Optics</i> , 2014 , 53, 7362-8	0.2	8
44	Volume-chirped Bragg gratings: monolithic components for stretching and compression of ultrashort laser pulses. <i>Optical Engineering</i> , 2014 , 53, 051514	1.1	41
43	Crystal nucleation and growth kinetics of NaF in photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , 2013 , 378, 115-120	3.9	22
42	Forced air cooling of volume Bragg gratings for spectral beam combination 2013 ,		2
41	. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 25-28	2.2	11
40	Effect of the refractive index change kinetics of photosensitive materials on the diffraction efficiency of reflecting Bragg gratings. <i>Applied Optics</i> , 2013 , 52, 3993-7	1.7	5
39	Modeling of the induced refractive index kinetics in photo-thermo-refractive glass. <i>Optical Materials Express</i> , 2013 , 3, 95	2.6	13
38	Ultimate efficiency of spectral beam combining by volume Bragg gratings. <i>Applied Optics</i> , 2013 , 52, 7233-42	4.2	16
37	Binary volume phase masks in photo-thermo-refractive glass. <i>Optics Letters</i> , 2012 , 37, 1190-2	3	10
36	Longitudinal mode selection in laser cavity by moiré volume Bragg grating 2012 ,		3
35	Single frequency fiber laser for external volume Bragg resonator 2012 ,		1

34	Near-IR absorption in high-purity photothermorefractive glass and holographic optical elements: measurement and application for high-energy lasers. <i>Applied Optics</i> , 2011 , 50, 5905-11	0.2	9
33	Optical detection of attosecond ionization induced by a few-cycle laser field in a transparent dielectric material. <i>Physical Review Letters</i> , 2011 , 106, 147401	7.4	58
32	Single resonance monolithic Fabry-Perot filters formed by volume Bragg gratings and multilayer dielectric mirrors. <i>Optics Letters</i> , 2011 , 36, 1773-5	3	3
31	Liquid-Liquid Phase Separation in Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 145-150	3.8	9
30	Internal Residual Stresses in Partially Crystallized Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 671-674	3.8	21
29	Effect of Bromine on NaF Crystallization in Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2906-2911	3.8	11
28	Photo-thermo-refractive glass co-doped with Nd ³⁺ as a new laser medium. <i>Optical Materials</i> , 2011 , 33, 1970-1974	3.3	11
27	Sodium Fluoride Solubility and Crystallization in Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 716-721	3.8	21
26	Ultranarrow bandwidth moiré reflecting Bragg gratings recorded in photo-thermo-refractive glass. <i>Optics Letters</i> , 2010 , 35, 592-4	3	16
25	Generation and bleaching of intrinsic color centers in photo-thermo-refractive glass matrix. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2363-2368	3.9	9
24	Specific absorption spectra of cerium in multicomponent silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2337-2343	3.9	58
23	Ultra-narrow bandpass filters based on volume Bragg grating technologies 2010 ,		5
22	Nonlinear photoionization and laser-induced damage in silicate glasses by infrared ultrashort laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 96, 127-134	1.9	14
21	Origin of crystallization-induced refractive index changes in photo-thermo-refractive glass. <i>Optical Materials</i> , 2009 , 32, 139-146	3.3	29
20	Viscosity, relaxation and elastic properties of photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 126-131	3.9	23
19	Method to assess the homogeneity of partially crystallized glasses: Application to a photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 1760-1768	3.9	18
18	Phase Fresnel lens recorded in photo-thermo-refractive glass by selective exposure to infrared ultrashort laser pulses. <i>Optics Letters</i> , 2009 , 34, 40-2	3	12
17	Ultrashort laser pulse diffraction by transmitting volume Bragg gratings in photo-thermo-refractive glass. <i>Optics Letters</i> , 2009 , 34, 2572-4	3	15

16	Non-collinear generation of third harmonic of IR ultrashort laser pulses by PTR glass volume Bragg gratings. <i>Optics Express</i> , 2009 , 17, 3564-73	3.3	2
15	Evolution of Absorption Spectra in the Process of Nucleation in Photo-Thermo-Refractive Glass. <i>Advanced Materials Research</i> , 2008 , 39-40, 395-398	0.5	8
14	Phase-shifted volume Bragg gratings in photo-thermo-refractive glass 2008 ,		3
13	Photoionization of wide bandgap silicate glasses by ultrashort IR laser pulses 2008 ,		1
12	Influence of UV-exposure on the crystallization and optical properties of photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 425-430	3.9	21
11	Role of bromine on the thermal and optical properties of photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 456-461	3.9	31
10	Nonlinear photosensitivity of photo-thermo-refractive glass by high intensity laser irradiation. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 4070-4074	3.9	18
9	Effect of cooling on the optical properties and crystallization of UV-exposed photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 4730-4736	3.9	15
8	Reflection of light by composite volume holograms: Fresnel corrections and Fabry-Perot spectral filtering. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008 , 25, 751-64 ^{1.8}		15
7	Accurate determination of the optical performances of antireflective coatings by low coherence reflectometry. <i>Applied Optics</i> , 2007 , 46, 5635-44	1.7	1
6	Large aperture diffractive elements in PTR glass 2006 , 6216, 255		
5	Tunable narrowband filter based on a combination of Fabry-Perot etalon and volume Bragg grating. <i>Optics Letters</i> , 2006 , 31, 2417-9	3	34
4	Ultranarrow bandpass hybrid filter with wide rejection band. <i>Applied Optics</i> , 2006 , 45, 1328-32	1.7	8
3	Localized measurement of the optical thickness of a transparent window: application to the study of the photosensitivity of organic polymers. <i>Applied Optics</i> , 2006 , 45, 6099-105	1.7	2
2	Laser trimming of thin-film filters 2005 , 5963, 60		2
1	Application of static masking technique in magnetron sputtering technology for the production of linearly variable filters. <i>CEAS Space Journal</i> ,1	1.2	