

# Julien H Lumeau

## List of Publications by Citations

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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	All-Dielectric Silicon Nanogap Antennas To Enhance the Fluorescence of Single Molecules. <i>Nano Letters</i> , <b>2016</b> , 16, 5143-51	11.5	147
86	Optical detection of attosecond ionization induced by a few-cycle laser field in a transparent dielectric material. <i>Physical Review Letters</i> , <b>2011</b> , 106, 147401	7.4	58
85	Specific absorption spectra of cerium in multicomponent silicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 2337-2343	3.9	58
84	Volume-chirped Bragg gratings: monolithic components for stretching and compression of ultrashort laser pulses. <i>Optical Engineering</i> , <b>2014</b> , 53, 051514	1.1	41
83	Tunable narrowband filter based on a combination of Fabry-Perot etalon and volume Bragg grating. <i>Optics Letters</i> , <b>2006</b> , 31, 2417-9	3	34
82	Role of bromine on the thermal and optical properties of photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 456-461	3.9	31
81	Extending Single-Molecule Förster Resonance Energy Transfer (FRET) Range beyond 10 Nanometers in Zero-Mode Waveguides. <i>ACS Nano</i> , <b>2019</b> , 13, 8469-8480	16.7	30
80	Origin of crystallization-induced refractive index changes in photo-thermo-refractive glass. <i>Optical Materials</i> , <b>2009</b> , 32, 139-146	3.3	29
79	Viscosity, relaxation and elastic properties of photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 126-131	3.9	23
78	Crystal nucleation and growth kinetics of NaF in photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 378, 115-120	3.9	22
77	A review of the photo-thermal mechanism and crystallization of photo-thermo-refractive (PTR) glass. <i>International Materials Reviews</i> , <b>2017</b> , 62, 348-366	16.1	21
76	Internal Residual Stresses in Partially Crystallized Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 671-674	3.8	21
75	Sodium Fluoride Solubility and Crystallization in Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 716-721	3.8	21
74	Influence of UV-exposure on the crystallization and optical properties of photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 425-430	3.9	21
73	Enhanced Four-Wave Mixing in Doubly Resonant Si Nanoresonators. <i>ACS Photonics</i> , <b>2019</b> , 6, 1295-1301	6.3	18
72	Method to assess the homogeneity of partially crystallized glasses: Application to a photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 1760-1768	3.9	18
71	Nonlinear photosensitivity of photo-thermo-refractive glass by high intensity laser irradiation. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 4070-4074	3.9	18

70	Ultimate efficiency of spectral beam combining by volume Bragg gratings. <i>Applied Optics</i> , <b>2013</b> , 52, 7233-7242	3.4	16
69	Ultranarrow bandwidth moiré reflecting Bragg gratings recorded in photo-thermo-refractive glass. <i>Optics Letters</i> , <b>2010</b> , 35, 592-4	3	16
68	Ultrashort laser pulse diffraction by transmitting volume Bragg gratings in photo-thermo-refractive glass. <i>Optics Letters</i> , <b>2009</b> , 34, 2572-4	3	15
67	Effect of cooling on the optical properties and crystallization of UV-exposed photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 4730-4736	3.9	15
66	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> , <b>2008</b> , 25, 751-64	1.8	15
65	Photosensitive chalcogenide metasurfaces supporting bound states in the continuum. <i>Optics Express</i> , <b>2019</b> , 27, 33847-33853	3.3	15
64	Nonlinear photoionization and laser-induced damage in silicate glasses by infrared ultrashort laser pulses. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 96, 127-134	1.9	14
63	Complex optical interference filters with stress compensation for space applications. <i>CEAS Space Journal</i> , <b>2017</b> , 9, 441-449	1.2	13
62	Modeling of the induced refractive index kinetics in photo-thermo-refractive glass. <i>Optical Materials Express</i> , <b>2013</b> , 3, 95	2.6	13
61	Absorption and scattering in photo-thermo-refractive glass induced by UV-exposure and thermal development. <i>Optical Materials</i> , <b>2014</b> , 36, 621-627	3.3	12
60	Phase Fresnel lens recorded in photo-thermo-refractive glass by selective exposure to infrared ultrashort laser pulses. <i>Optics Letters</i> , <b>2009</b> , 34, 40-2	3	12
59	. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 25-28	2.2	11
58	Effect of Bromine on NaF Crystallization in Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2906-2911	3.8	11
57	Photo-thermo-refractive glass co-doped with Nd <sup>3+</sup> as a new laser medium. <i>Optical Materials</i> , <b>2011</b> , 33, 1970-1974	3.3	11
56	Electron Paramagnetic Resonance (EPR) studies on the photo-thermo ionization process of photo-thermo-refractive glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 452, 320-324	3.9	11
55	Binary volume phase masks in photo-thermo-refractive glass. <i>Optics Letters</i> , <b>2012</b> , 37, 1190-2	3	10
54	Near-IR absorption in high-purity photothermorefractive glass and holographic optical elements: measurement and application for high-energy lasers. <i>Applied Optics</i> , <b>2011</b> , 50, 5905-11	0.2	9
53	Liquid-Liquid Phase Separation in Photo-Thermo-Refractive Glass. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 145-150	3.8	9

52	Generation and bleaching of intrinsic color centers in photo-thermo-refractive glass matrix. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 2363-2368	3.9	9
51	Reconfigurable Flat Optics with Programmable Reflection Amplitude Using Lithography-Free Phase-Change Material Ultra-Thin Films. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001291	8.1	9
50	Accurate analysis of mechanical stress in dielectric multilayers. <i>Optics Letters</i> , <b>2017</b> , 42, 3217-3220	3	8
49	Mechanisms and kinetics of short pulse laser-induced destruction of silver-containing nanoparticles in multicomponent silicate photo-thermo-refractive glass. <i>Applied Optics</i> , <b>2014</b> , 53, 7362-8	0.2	8
48	Evolution of Absorption Spectra in the Process of Nucleation in Photo-Thermo-Refractive Glass. <i>Advanced Materials Research</i> , <b>2008</b> , 39-40, 395-398	0.5	8
47	Ultranarrow bandpass hybrid filter with wide rejection band. <i>Applied Optics</i> , <b>2006</b> , 45, 1328-32	1.7	8
46	Adhesion layer influence on controlling the local temperature in plasmonic gold nanoholes. <i>Nanoscale</i> , <b>2020</b> , 12, 2524-2531	7.7	8
45	CMOS-compatible all-dielectric metalens for improving pixel photodetector arrays. <i>APL Photonics</i> , <b>2020</b> , 5, 116105	5.2	8
44	Advanced optical interference filters based on metal and dielectric layers. <i>Optics Express</i> , <b>2016</b> , 24, 20925-37	3.3	8
43	Excitation of Bloch Surface Waves in Zero-Admittance Multilayers for High-Sensitivity Sensor Applications. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	7
42	DBR and DFB lasers in neodymium- and ytterbium-doped photothermorefractive glasses. <i>Optics Letters</i> , <b>2014</b> , 39, 2156-9	3	7
41	Broadband antireflection coatings for visible and infrared ranges. <i>CEAS Space Journal</i> , <b>2019</b> , 11, 567-578	1.2	6
40	Determination of the optical constants of a dielectric layer by processing in situ spectral transmittance measurements along the time dimension. <i>Applied Optics</i> , <b>2017</b> , 56, C181-C187	0.2	6
39	In situ optical monitoring of Fabry-Perot multilayer structures: analysis of current techniques and optimized procedures. <i>Optics Express</i> , <b>2017</b> , 25, 18040-18055	3.3	6
38	Coating stress analysis and compensation for iridium-based x-ray mirrors. <i>Applied Optics</i> , <b>2018</b> , 57, 8775-8779	3.7	6
37	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> , <b>2019</b> , 36, C113-C121	1.8	6
36	Effect of the refractive index change kinetics of photosensitive materials on the diffraction efficiency of reflecting Bragg gratings. <i>Applied Optics</i> , <b>2013</b> , 52, 3993-7	1.7	5
35	Ultra-narrow bandpass filters based on volume Bragg grating technologies <b>2010</b> ,		5

34	Fabrication of binary volumetric diffractive optical elements in photosensitive chalcogenide AMTIR-1 layers. <i>Optics Letters</i> , <b>2015</b> , 40, 3233-6	3	4
33	X-ray diffraction study of NaF nano-crystals in photo-thermo-refractive glass. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 405, 188-195	3.9	4
32	Semi-automated method for the determination of the all-optical monitoring strategy of complex thin-film filters. <i>Optics Express</i> , <b>2019</b> , 27, 12373-12390	3.3	4
31	Preventing Corrosion of Aluminum Metal with Nanometer-Thick Films of Al <sub>2</sub> O <sub>3</sub> Capped with TiO <sub>2</sub> for Ultraviolet Plasmonics. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 7199-7205	5.6	4
30	Optical characterization of photosensitive AMTIR-1 chalcogenide thin layers deposited by electron beam deposition. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 442, 22-28	3.9	4
29	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> , <b>2015</b> , 32, 538-48	1.8	3
28	Use of a broadband monitoring system for the determination of the optical constants of a dielectric bilayer. <i>Applied Optics</i> , <b>2018</b> , 57, 877-883	1.7	3
27	Gradient of refractive index (GRIN) effect in photo-thermo-refractive glass. <i>Applied Optics</i> , <b>2015</b> , 54, 1587	1.7	3
26	Single resonance monolithic Fabry-Perot filters formed by volume Bragg gratings and multilayer dielectric mirrors. <i>Optics Letters</i> , <b>2011</b> , 36, 1773-5	3	3
25	Longitudinal mode selection in laser cavity by moiré volume Bragg grating <b>2012</b> ,		3
24	Phase-shifted volume Bragg gratings in photo-thermo-refractive glass <b>2008</b> ,		3
23	Large aperture, highly uniform narrow bandpass Fabry-Perot filter using photosensitive AsS thin films. <i>Optics Letters</i> , <b>2019</b> , 44, 351-354	3	3
22	2D-array pixelated optical interference filters <b>2015</b> ,		2
21	Versatile digital micromirror device-based method for the recording of multilevel optical diffractive elements in photosensitive chalcogenide layers (AMTIR-1). <i>Optics Letters</i> , <b>2016</b> , 41, 3415-8	3	2
20	Forced air cooling of volume Bragg gratings for spectral beam combination <b>2013</b> ,		2
19	Pixelated filters for spatial imaging <b>2015</b> ,		2
18	Non-collinear generation of third harmonic of IR ultrashort laser pulses by PTR glass volume Bragg gratings. <i>Optics Express</i> , <b>2009</b> , 17, 3564-73	3.3	2
17	Localized measurement of the optical thickness of a transparent window: application to the study of the photosensitivity of organic polymers. <i>Applied Optics</i> , <b>2006</b> , 45, 6099-105	1.7	2

16	Laser trimming of thin-film filters <b>2005</b> , 5963, 60		2
15	Trinary mappings: a tool for the determination of potential spectral paths for optical monitoring of optical interference filters. <i>Applied Optics</i> , <b>2018</b> , 57, 7012-7020	1.7	2
14	Saturation of multiplexed volume Bragg grating recording. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2015</b> , 32, 22-7	1.8	1
13	Complex optical interference filter with stress compensation <b>2015</b> ,		1
12	Analysis of laser energy deposition leading to damage and ablation of HfO <sub>2</sub> and Nb <sub>2</sub> O <sub>5</sub> single layers submitted to 500 fs pulses at 1030 and 343 nm. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	1
11	Micromirrors with controlled amplitude and phase. <i>Applied Optics</i> , <b>2017</b> , 56, 5655-5660	1.7	1
10	Single frequency fiber laser for external volume Bragg resonator <b>2012</b> ,		1
9	Photoionization of wide bandgap silicate glasses by ultrashort IR laser pulses <b>2008</b> ,		1
8	Accurate determination of the optical performances of antireflective coatings by low coherence reflectometry. <i>Applied Optics</i> , <b>2007</b> , 46, 5635-44	1.7	1
7	Linearly variable filters fabricated by magnetron sputtering technology <b>2019</b> ,		1
6	Beam-size effects on the measurement of sub-picosecond intrinsic laser induced damage threshold of dielectric oxide coatings. <i>Applied Optics</i> , <b>2021</b> , 60, 8569-8578	1.7	1
5	Automated optical monitoring wavelength selection for thin-film filters. <i>Optics Express</i> , <b>2021</b> , 29, 33398-33413	3.3	1
4	Multipass lock-in thermography for the study of optical coating absorption.. <i>Applied Optics</i> , <b>2022</b> , 61, 978-988	1.7	0
3	In-situ interferometric monitoring of optical coatings. <i>Optics Express</i> , <b>2020</b> , 28, 22012-22026	3.3	0
2	Large aperture diffractive elements in PTR glass <b>2006</b> , 6216, 255		
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	