

# Sylvain Lecler

## 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.

49 papers	616 citations	12 h-index	23 g-index
60 ext. papers	783 ext. citations	3.1 avg, IF	3.99 L-index

#	Paper	IF	Citations
49	Properties of a three-dimensional photonic jet. <i>Optics Letters</i> , <b>2005</b> , 30, 2641-3	3	178
48	Photonic jet driven non-linear optics: example of two-photon fluorescence enhancement by dielectric microspheres. <i>Optics Express</i> , <b>2007</b> , 15, 4935-42	3.3	72
47	3D Super-Resolution Optical Profiling Using Microsphere Enhanced Mirau Interferometry. <i>Scientific Reports</i> , <b>2017</b> , 7, 3683	4.9	39
46	Photonic jet lens. <i>Scientific Reports</i> , <b>2019</b> , 9, 4725	4.9	33
45	Ultra-narrow photonic nanojets through a glass cuboid embedded in a dielectric cylinder. <i>Optics Express</i> , <b>2018</b> , 26, 3723-3731	3.3	29
44	Illumination guidelines for ultrafast pump-probe experiments by serial femtosecond crystallography. <i>Nature Methods</i> , <b>2020</b> , 17, 681-684	21.6	26
43	Photonic jet breakthrough for direct laser microetching using nanosecond near-infrared laser. <i>Applied Optics</i> , <b>2014</b> , 53, 7202-7	0.2	24
42	Microsphere-assisted phase-shifting profilometry. <i>Applied Optics</i> , <b>2017</b> , 56, 7249-7255	1.7	18
41	Photonic jet subwavelength etching using a shaped optical fiber tip. <i>Optics Letters</i> , <b>2016</b> , 41, 2073-6	3	17
40	Illumination conditions in microsphere-assisted microscopy. <i>Journal of Microscopy</i> , <b>2019</b> , 274, 69-75	1.9	14
39	Compensated Microsphere-Assisted Interference Microscopy. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	13
38	High Resolution Microsphere-Assisted Interference Microscopy for 3D Characterization of Nanomaterials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700858	1.6	13
37	Mode couplings and elasto-optic effects study in a proposed mechanical microperturbed multimode optical fiber sensor. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2012</b> , 29, 2386-93	1.8	12
36	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2015</b> , 63, 5612-5618	4.9	10
35	Unconventional magnification behaviour in microsphere-assisted microscopy. <i>Optics and Laser Technology</i> , <b>2019</b> , 114, 40-43	4.2	9
34	Role of coherence in microsphere-assisted nanoscopy <b>2017</b> ,		9
33	Investigation of mode coupling effects on sensitivity and bias of a multimode fiber loop interferometer: Application to an optimal design of a multimode fiber gyroscope. <i>Optical Fiber Technology</i> , <b>2011</b> , 17, 50-58	2.4	9

32	Transmission Microsphere-Assisted Dark-Field Microscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1800445	2.5	8
31	Photonic jet: key role of injection for etchings with a shaped optical fiber tip. <i>Optics Letters</i> , <b>2017</b> , 42, 2707-2709	3	7
30	Single and Dual Photonic Jets With Tipped Waveguides: An Integral Approach. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1516-1518	2.2	7
29	Etching of semiconductors and metals by the photonic jet with shaped optical fiber tips. <i>Applied Surface Science</i> , <b>2017</b> , 418, 452-455	6.7	6
28	Additive manufacturing of a monolithic optical force sensor based on polarization modulation. <i>Applied Optics</i> , <b>2015</b> , 54, 6912-8	0.2	6
27	High Resolution Surface Metrology Using Microsphere-Assisted Interference Microscopy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1800761	1.6	6
26	Photonic jet etching: Justifying the shape of optical fiber tip <b>2016</b> ,		5
25	An optimal open-loop multimode fiber gyroscope for rate-grade performance applications. <i>Optical Fiber Technology</i> , <b>2011</b> , 17, 546-553	2.4	4
24	Super-resolution imaging within reach. <i>Optical Engineering</i> , <b>2019</b> , 58, 1	1.1	4
23	Near- to Far-Field Coupling of Evanescent Waves by Glass Microspheres. <i>Photonics</i> , <b>2021</b> , 8, 73	2.2	4
22	Investigation of diffractive optical element femtosecond laser machining. <i>Applied Surface Science</i> , <b>2016</b> , 374, 375-378	6.7	3
21	Sub-diffraction surface topography measurement using a microsphere-assisted Linnik interferometer <b>2017</b> ,		3
20	Photonic jet to improve the lateral resolution of laser etching <b>2014</b> ,		3
19	Long focal length high repetition rate femtosecond laser glass welding. <i>Applied Optics</i> , <b>2019</b> , 58, 8858-8864		3
18	Large-mode-area optical fiber for photonic nanojet generation. <i>Optics Letters</i> , <b>2019</b> , 44, 2474-2477	3	3
17	Microsphere-Assisted Interference Microscopy <b>2019</b> , 443-469		3
16	Photonic jet: direct micro-peak machining. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	2
15	Modeling a multimode Sagnac interferometer: application for an embarked fiber optic gyroscope <b>2008</b> ,		2

14	Over-wavelength pitch sized diffraction gratings for augmented reality applications.. <i>Optics Express</i> , <b>2022</b> , 30, 1293-1303	3.3	2
13	Heat Flux Estimation of a Flame Thermal Spray Process Using a Thermally Thin Composite Calorimeter. <i>Journal of Thermal Spray Technology</i> , <b>2016</b> , 25, 1650-1656	2.5	2
12	Plasmonic effect of Ag nanoparticles in a SiON antireflective coating: engineering rules and physical barrier. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 415102	3	1
11	Boundary Impedance Operator to Study Tipped Parallel Plate Waveguides. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 5599-5609	4.9	1
10	Design and performance of a mechanical strain optical sensor using a multimode fiber locally stressed by a periodical micrometric perturbation <b>2010</b> ,		1
9	Simultaneous strain and coherent imaging using coupled photorefractive holography and shearography through scattering media. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 044010	3.5	1
8	Effect of Phase Noise on the Frequency Calibration of a Tunable Laser by Heterodyne Signal Filtering. <i>IEEE Journal of Quantum Electronics</i> , <b>2018</b> , 54, 1-8	2	1
7	Whispering gallery mode resonance contribution in photonic nanojet simulation. <i>Optics Express</i> , <b>2021</b> , 29, 39249-39255	3.3	0
6	Direct imaging of a photonic jet at shaped fiber tips. <i>Optics Letters</i> , <b>2021</b> , 46, 5125-5128	3	0
5	Photonic Jet-Shaped Optical Fiber Tips versus Lensed Fibers. <i>Photonics</i> , <b>2021</b> , 8, 373	2.2	0
4	Laser Micronanofabrication <b>2017</b> , 383-402		
3	A Potential Application of Photonic Jet in Observing Micro-Metric Materials. <i>Materials Science Forum</i> , <b>2019</b> , 966, 507-511	0.4	
2	Investigation Into Photonic Jet Machining Using Shaped Optical Fibre Tips. <i>Materials Today: Proceedings</i> , <b>2017</b> , 4, S62-S67	1.4	
1	From 2D to 3D super-resolution imaging through glass microspheres -INVITED. <i>EPJ Web of Conferences</i> , <b>2020</b> , 238, 06002	0.3	