Sylvain Lecler

List of Publications by Year in Descending Order

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	Over-wavelength pitch sized diffraction gratings for augmented reality applications.. *Optics Express* , **2022**, 30, 1293-1303	3.3	2
48	Whispering gallery mode resonance contribution in photonic nanojet simulation. *Optics Express*, **2021**, 29, 39249-39255	3.3	0
47	Near- to Far-Field Coupling of Evanescent Waves by Glass Microspheres. *Photonics*, **2021**, 8, 73	2.2	4
46	Direct imaging of a photonic jet at shaped fiber tips. *Optics Letters*, **2021**, 46, 5125-5128	3	0
45	Photonic Jet-Shaped Optical Fiber Tips versus Lensed Fibers. *Photonics*, **2021**, 8, 373	2.2	0
44	Compensated Microsphere-Assisted Interference Microscopy. *Physical Review Applied*, **2020**, 13,	4.3	13
43	Illumination guidelines for ultrafast pump-probe experiments by serial femtosecond crystallography. *Nature Methods*, **2020**, 17, 681-684	21.6	26
42	From 2D to 3D super-resolution imaging through glass microspheres -INVITED. *EPJ Web of Conferences*, **2020**, 238, 06002	0.3	
41	Illumination conditions in microsphere-assisted microscopy. *Journal of Microscopy*, **2019**, 274, 69-75	1.9	14
40	Unconventional magnification behaviour in microsphere-assisted microscopy. *Optics and Laser Technology*, **2019**, 114, 40-43	4.2	9
39	Photonic jet lens. *Scientific Reports*, **2019**, 9, 4725	4.9	33
38	A Potential Application of Photonic Jet in Observing Micro-Metric Materials. *Materials Science Forum*, **2019**, 966, 507-511	0.4	
37	Super-resolution imaging within reach. *Optical Engineering*, **2019**, 58, 1	1.1	4
36	Long focal length high repetition rate femtosecond laser glass welding. *Applied Optics*, **2019**, 58, 8858-8864	1.7	3
35	Large-mode-area optical fiber for photonic nanojet generation. *Optics Letters*, **2019**, 44, 2474-2477	3	3
34	Microsphere-Assisted Interference Microscopy **2019**, 443-469		3
33	High Resolution Surface Metrology Using Microsphere-Assisted Interference Microscopy. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1800761	1.6	6

32	Transmission Microsphere-Assisted Dark-Field Microscopy. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800445	2.5	8
31	Ultra-narrow photonic nanojets through a glass cuboid embedded in a dielectric cylinder. *Optics Express*, **2018**, 26, 3723-3731	3.3	29
30	High Resolution Microsphere-Assisted Interference Microscopy for 3D Characterization of Nanomaterials. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700858	1.6	13
29	Effect of Phase Noise on the Frequency Calibration of a Tunable Laser by Heterodyne Signal Filtering. *IEEE Journal of Quantum Electronics*, **2018**, 54, 1-8	2	1
28	Etching of semiconductors and metals by the photonic jet with shaped optical fiber tips. *Applied Surface Science*, **2017**, 418, 452-455	6.7	6
27	Laser Micronanofabrication **2017**, 383-402		
26	Photonic jet: direct micro-peak machining. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	2
25	Photonic jet: key role of injection for etchings with a shaped optical fiber tip. *Optics Letters*, **2017**, 42, 2707-2709	3	7
24	Investigation Into Photonic Jet Machining Using Shaped Optical Fibre Tips. *Materials Today: Proceedings*, **2017**, 4, S62-S67	1.4	
23	3D Super-Resolution Optical Profiling Using Microsphere Enhanced Mirau Interferometry. *Scientific Reports*, **2017**, 7, 3683	4.9	39
22	Sub-diffraction surface topography measurement using a microsphere-assisted Linnik interferometer **2017**,		3
21	Role of coherence in microsphere-assisted nanoscopy **2017**,		9
20	Microsphere-assisted phase-shifting profilometry. *Applied Optics*, **2017**, 56, 7249-7255	1.7	18
19	Plasmonic effect of Ag nanoparticles in a SiON antireflective coating: engineering rules and physical barrier. *Journal Physics D: Applied Physics*, **2016**, 49, 415102	3	1
18	Investigation of diffractive optical element femtosecond laser machining. *Applied Surface Science*, **2016**, 374, 375-378	6.7	3
17	Heat Flux Estimation of a Flame Thermal Spray Process Using a Thermally Thin Composite Calorimeter. *Journal of Thermal Spray Technology*, **2016**, 25, 1650-1656	2.5	2
16	Photonic jet etching: Justifying the shape of optical fiber tip **2016**,		5
15	Photonic jet subwavelength etching using a shaped optical fiber tip. *Optics Letters*, **2016**, 41, 2073-6	3	17

14	Additive manufacturing of a monolithic optical force sensor based on polarization modulation. *Applied Optics*, **2015**, 54, 6912-8	0.2	6
13	. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5612-5618	4.9	10
12	Boundary Impedance Operator to Study Tipped Parallel Plate Waveguides. *IEEE Transactions on Antennas and Propagation*, **2014**, 62, 5599-5609	4.9	1
11	Photonic jet to improve the lateral resolution of laser etching **2014**,		3
10	Photonic jet breakthrough for direct laser microetching using nanosecond near-infrared laser. *Applied Optics*, **2014**, 53, 7202-7	0.2	24
9	Single and Dual Photonic Jets With Tipped Waveguides: An Integral Approach. *IEEE Photonics Technology Letters*, **2012**, 24, 1516-1518	2.2	7
8	Mode couplings and elasto-optic effects study in a proposed mechanical microperturbed multimode optical fiber sensor. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2012**, 29, 2386-93	1.8	12
7	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. *Optical Fiber Technology*, **2011**, 17, 50-58	2.4	9
6	An optimal open-loop multimode fiber gyroscope for rate-grade performance applications. *Optical Fiber Technology*, **2011**, 17, 546-553	2.4	4
5	Design and performance of a mechanical strain optical sensor using a multimode fiber locally stressed by a periodical micrometric perturbation **2010**,		1
4	Modeling a multimode Sagnac interferometer: application for an embarked fiber optic gyroscope **2008**,		2
3	Simultaneous strain and coherent imaging using coupled photorefractive holography and shearography through scattering media. *Journal of Biomedical Optics*, **2008**, 13, 044010	3.5	1
2	Photonic jet driven non-linear optics: example of two-photon fluorescence enhancement by dielectric microspheres. *Optics Express*, **2007**, 15, 4935-42	3.3	72
1	Properties of a three-dimensional photonic jet. *Optics Letters*, **2005**, 30, 2641-3	3	178