

# patrice Genevet

## 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.

92  
papers

14,604  
citations

41  
h-index

120  
g-index

120  
ext. papers

18,176  
ext. citations

8.6  
avg, IF

6.67  
L-index

#	Paper	IF	Citations
92	Polarization-insensitive 3D conformal-skin metasurface cloak. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 75	16.7	39
91	Nanophotonics for light detection and ranging technology. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 508-524	28.7	52
90	Broadband decoupling of intensity and polarization with vectorial Fourier metasurfaces. <i>Nature Communications</i> , <b>2021</b> , 12, 3631	17.4	19
89	Multiobjective Statistical Learning Optimization of RGB Metalens. <i>ACS Photonics</i> , <b>2021</b> , 8, 2498-2508	6.3	8
88	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
87	Dynamic phase manipulation of vertical-cavity surface-emitting lasers via on-chip integration of microfluidic channels. <i>Optics Express</i> , <b>2021</b> , 29, 1481-1491	3.3	0
86	Backward Phase-Matched Second-Harmonic Generation from Stacked Metasurfaces. <i>Physical Review Letters</i> , <b>2021</b> , 126, 033901	7.4	14
85	Reconfigurable Flat Optics with Programmable Reflection Amplitude Using Lithography-Free Phase-Change Material Ultra-Thin Films (Advanced Optical Materials 2/2021). <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2170006	8.1	2
84	On-Chip Generation of Structured Light Based on Metasurface Optoelectronic Integration. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000385	8.3	10
83	Scattering by lossy anisotropic scatterers: A modal approach. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 113104	10.5	1
82	Optimization of metasurfaces under geometrical uncertainty using statistical learning. <i>Optics Express</i> , <b>2021</b> , 29, 29887-29898	3.3	2
81	Plasmonic topological metasurface by encircling an exceptional point. <i>Science</i> , <b>2021</b> , 373, 1133-1137	33.3	29
80	Metasurface Optical Characterization Using Quadriwave Lateral Shearing Interferometry. <i>ACS Photonics</i> , <b>2021</b> , 8, 603-613	6.3	7
79	Bandwidth-unlimited polarization-maintaining metasurfaces. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	21
78	Ptychography retrieval of fully polarized holograms from geometric-phase metasurfaces. <i>Nature Communications</i> , <b>2020</b> , 11, 2651	17.4	64
77	Metasurface-integrated vertical cavity surface-emitting lasers for programmable directional lasing emissions. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 125-130	28.7	72
76	Long-lifetime coherence in a quantum emitter induced by a metasurface. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	9

75	Mid-Infrared Grayscale Metasurface Holograms. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 552	2.6	
74	Printing polarization and phase at the optical diffraction limit: near- and far-field optical encryption. <i>Nanophotonics</i> , <b>2020</b> , 10, 697-704	6.3	11
73	Revealing topological phase in Pancharatnam-Berry metasurfaces using mesoscopic electrodynamic. <i>Nanophotonics</i> , <b>2020</b> , 9, 4711-4718	6.3	1
72	Vectorial Hologram Based on Pixelated Metasurface <b>2020</b> ,		1
71	Nonlocality Induced Cherenkov Threshold. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 2000149	8.3	11
70	Numerical Optimization Methods for Metasurfaces. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 1900445	8.3	41
69	Independent phase modulation for quadruplex polarization channels enabled by chirality-assisted geometric-phase metasurfaces. <i>Nature Communications</i> , <b>2020</b> , 11, 4186	17.4	166
68	Optical Phase Transition in Semiconductor Quantum Metamaterials. <i>Physical Review Letters</i> , <b>2019</b> , 123, 117401	7.4	9
67	Hybrid MoS <sub>2</sub> -gap-mode metasurface photodetectors. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 374003		8
66	Gate-Tunable Emission of Exciton-Plasmon Polaritons in Hybrid MoS <sub>2</sub> -Gap-Mode Metasurfaces. <i>ACS Photonics</i> , <b>2019</b> , 6, 1594-1601	6.3	17
65	Room Temperature Electrically Driven Ultraviolet Plasmonic Lasers. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801681	8.1	17
64	An Etching-Free Approach Toward Large-Scale Light-Emitting Metasurfaces. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1801271	8.1	24
63	Metasurface orbital angular momentum holography. <i>Nature Communications</i> , <b>2019</b> , 10, 2986	17.4	161
62	Enhanced Second-Harmonic Generation in a Single Microwire Based on Localized Surface Plasmon. <i>Physica Status Solidi (B): Basic Research</i> , <b>2019</b> , 256, 1900075	1.3	
61	Optimization and uncertainty quantification of gradient index metasurfaces [Invited]. <i>Optical Materials Express</i> , <b>2019</b> , 9, 892	2.6	13
60	Global optimization of metasurface designs using statistical learning methods. <i>Scientific Reports</i> , <b>2019</b> , 9, 17918	4.9	16
59	Mitigating Chromatic Dispersion with Hybrid Optical Metasurfaces. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805555	5.5	25
58	Modelling of free-form conformal metasurfaces. <i>Nature Communications</i> , <b>2018</b> , 9, 3494	17.4	41

57	Outfitting Next Generation Displays with Optical Metasurfaces. <i>ACS Photonics</i> , <b>2018</b> , 5, 3876-3895	6.3	85
56	Traditional and emerging materials for optical metasurfaces. <i>Nanophotonics</i> , <b>2017</b> , 6, 452-471	6.3	81
55	Anisotropic Surface Plasmon Polariton Generation Using Bimodal V-Antenna Based Metastructures. <i>ACS Photonics</i> , <b>2017</b> , 4, 22-27	6.3	16
54	Freestanding dielectric nanohole array metasurface for mid-infrared wavelength applications. <i>Optics Letters</i> , <b>2017</b> , 42, 2639-2642	3	29
53	Recent advances in planar optics: from plasmonic to dielectric metasurfaces. <i>Optica</i> , <b>2017</b> , 4, 139	8.6	561
52	Measurement of bound states in the continuum by a detector embedded in a photonic crystal. <i>Light: Science and Applications</i> , <b>2016</b> , 5, e16147	16.7	57
51	Broadband mode conversion via gradient index metamaterials. <i>Scientific Reports</i> , <b>2016</b> , 6, 24529	4.9	14
50	Controlling electromagnetic fields at boundaries of arbitrary geometries. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	28
49	Holographic optical metasurfaces: a review of current progress. <i>Reports on Progress in Physics</i> , <b>2015</b> , 78, 024401	14.4	202
48	Controlled steering of Cherenkov surface plasmon wakes with a one-dimensional metamaterial. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 804-9	28.7	94
47	Achromatic Metasurface Lens at Telecommunication Wavelengths. <i>Nano Letters</i> , <b>2015</b> , 15, 5358-62	11.5	290
46	Holographic metalens for switchable focusing of surface plasmons. <i>Nano Letters</i> , <b>2015</b> , 15, 3585-9	11.5	47
45	Achromatic metasurfaces by dispersive phase compensation <b>2015</b> ,		2
44	Applied optics. Multiwavelength achromatic metasurfaces by dispersive phase compensation. <i>Science</i> , <b>2015</b> , 347, 1342-5	33.3	667
43	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1193-1198	8.1	40
42	. <i>IEEE Photonics Journal</i> , <b>2014</b> , 6, 1-4	1.8	8
41	Electrically pumped semiconductor laser with monolithic control of circular polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E5623-32	11.5	21
40	Quantum-coherence-enhanced surface plasmon amplification by stimulated emission of radiation. <i>Physical Review Letters</i> , <b>2013</b> , 111, 043601	7.4	68

39	Nanostructured holograms for broadband manipulation of vector beams. <i>Nano Letters</i> , <b>2013</b> , 13, 4269-74	11.5	195
38	Vanadium Dioxide as a Natural Disordered Metamaterial: Perfect Thermal Emission and Large Broadband Negative Differential Thermal Emittance. <i>Physical Review X</i> , <b>2013</b> , 3,	9.1	103
37	Nanometre optical coatings based on strong interference effects in highly absorbing media. <i>Nature Materials</i> , <b>2013</b> , 12, 20-4	27	638
36	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2013</b> , 19, 4700423-4700423	3.8	201
35	Broad electrical tuning of graphene-loaded plasmonic antennas. <i>Nano Letters</i> , <b>2013</b> , 13, 1257-64	11.5	458
34	High-power low-divergence tapered quantum cascade lasers with plasmonic collimators. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 191114	3.4	13
33	Controlling Light Propagation with Interfacial Phase Discontinuities <b>2013</b> , 171-217		
32	Thermal tuning of mid-infrared plasmonic antenna arrays using a phase change material. <i>Optics Letters</i> , <b>2013</b> , 38, 368-70	3	158
31	Aberrations of flat lenses and aplanatic metasurfaces. <i>Optics Express</i> , <b>2013</b> , 21, 31530-9	3.3	101
30	Generation of two-dimensional plasmonic bottle beams. <i>Optics Express</i> , <b>2013</b> , 21, 10295-300	3.3	28
29	Enhancement of absorption and color contrast in ultra-thin highly absorbing optical coatings. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 101104	3.4	69
28	Holographic detection of the orbital angular momentum of light with plasmonic photodiodes. <i>Nature Communications</i> , <b>2012</b> , 3, 1278	17.4	200
27	Modeling nanoscale V-shaped antennas for the design of optical phased arrays. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	81
26	Aberration-free ultrathin flat lenses and axicons at telecom wavelengths based on plasmonic metasurfaces. <i>Nano Letters</i> , <b>2012</b> , 12, 4932-6	11.5	1177
25	Cosine-Gauss plasmon beam: a localized long-range nondiffracting surface wave. <i>Physical Review Letters</i> , <b>2012</b> , 109, 093904	7.4	135
24	Ultra-thin plasmonic optical vortex plate based on phase discontinuities. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 013101	3.4	384
23	Ultra-thin perfect absorber employing a tunable phase change material. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 221101	3.4	418
22	Observation of True Optical Vortices in a Laser System. <i>Springer Series in Optical Sciences</i> , <b>2012</b> , 195-205	0.5	1

21	Out-of-plane reflection and refraction of light by anisotropic optical antenna metasurfaces with phase discontinuities. <i>Nano Letters</i> , <b>2012</b> , 12, 1702-6	11.5	388
20	A broadband, background-free quarter-wave plate based on plasmonic metasurfaces. <i>Nano Letters</i> , <b>2012</b> , 12, 6328-33	11.5	839
19	Reflection and refraction of light from metasurfaces with phase discontinuities. <i>Journal of Nanophotonics</i> , <b>2012</b> , 6, 063532	1.1	33
18	Giant birefringence in optical antenna arrays with widely tailorable optical anisotropy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 12364-12368	11.5	139
17	BIFURCATION DIAGRAM AND CONTROL OF LOCALIZED LASER STRUCTURES. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2012</b> , 21, 1250029	0.8	4
16	Enhancement of optical processes in coupled plasmonic nanocavities [Invited]. <i>Applied Optics</i> , <b>2011</b> , 50, G56-62	0.2	8
15	Effect of radiation damping on the spectral response of plasmonic components. <i>Optics Express</i> , <b>2011</b> , 19, 21748-53	3.3	102
14	Multi-wavelength mid-infrared plasmonic antennas with single nanoscale focal point. <i>Optics Express</i> , <b>2011</b> , 19, 22113-24	3.3	27
13	Light propagation with phase discontinuities: generalized laws of reflection and refraction. <i>Science</i> , <b>2011</b> , 334, 333-7	33.3	4912
12	Dipolar modeling and experimental demonstration of multi-beam plasmonic collimators. <i>New Journal of Physics</i> , <b>2011</b> , 13, 053057	2.9	26
11	Bistable and addressable localized vortices in semiconductor lasers. <i>Physical Review Letters</i> , <b>2010</b> , 104, 223902	7.4	47
10	Multistable monochromatic laser solitons. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	8
9	Large enhancement of nonlinear optical phenomena by plasmonic nanocavity gratings. <i>Nano Letters</i> , <b>2010</b> , 10, 4880-3	11.5	172
8	Mutual coherence of laser solitons in coupled semiconductor resonators. <i>European Physical Journal D</i> , <b>2010</b> , 59, 109-114	1.3	13
7	Theoretical description of the transverse localised structures in a face to face VCSEL configuration. <i>European Physical Journal D</i> , <b>2010</b> , 59, 97-107	1.3	2
6	Stationary localized structures and pulsing structures in a cavity soliton laser. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	22
5	Microresonator defects as sources of drifting cavity solitons. <i>Physical Review Letters</i> , <b>2009</b> , 102, 163901	7.4	34
4	All-optical delay line using semiconductor cavity solitons. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 011101	3.4	89

3	Cavity soliton laser based on mutually coupled semiconductor microresonators. <i>Physical Review Letters</i> , <b>2008</b> , 101, 123905	7.4	93
2	Positioning cavity solitons with a phase mask. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 221111	3.4	47
1	Space and Time Modulations of Light with Metasurfaces: Recent Progress and Future Prospects. <i>ACS Photonics</i> ,	6.3	3