

patrice Genevet

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.

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	Light propagation with phase discontinuities: generalized laws of reflection and refraction. <i>Science</i> , 2011 , 334, 333-7	33.3	4912
91	Aberration-free ultrathin flat lenses and axicons at telecom wavelengths based on plasmonic metasurfaces. <i>Nano Letters</i> , 2012 , 12, 4932-6	11.5	1177
90	A broadband, background-free quarter-wave plate based on plasmonic metasurfaces. <i>Nano Letters</i> , 2012 , 12, 6328-33	11.5	839
89	Applied optics. Multiwavelength achromatic metasurfaces by dispersive phase compensation. <i>Science</i> , 2015 , 347, 1342-5	33.3	667
88	Nanometre optical coatings based on strong interference effects in highly absorbing media. <i>Nature Materials</i> , 2013 , 12, 20-4	27	638
87	Recent advances in planar optics: from plasmonic to dielectric metasurfaces. <i>Optica</i> , 2017 , 4, 139	8.6	561
86	Broad electrical tuning of graphene-loaded plasmonic antennas. <i>Nano Letters</i> , 2013 , 13, 1257-64	11.5	458
85	Ultra-thin perfect absorber employing a tunable phase change material. <i>Applied Physics Letters</i> , 2012 , 101, 221101	3.4	418
84	Out-of-plane reflection and refraction of light by anisotropic optical antenna metasurfaces with phase discontinuities. <i>Nano Letters</i> , 2012 , 12, 1702-6	11.5	388
83	Ultra-thin plasmonic optical vortex plate based on phase discontinuities. <i>Applied Physics Letters</i> , 2012 , 100, 013101	3.4	384
82	Achromatic Metasurface Lens at Telecommunication Wavelengths. <i>Nano Letters</i> , 2015 , 15, 5358-62	11.5	290
81	Holographic optical metasurfaces: a review of current progress. <i>Reports on Progress in Physics</i> , 2015 , 78, 024401	14.4	202
80	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4700423-4700423	3.8	201
79	Holographic detection of the orbital angular momentum of light with plasmonic photodiodes. <i>Nature Communications</i> , 2012 , 3, 1278	17.4	200
78	Nanostructured holograms for broadband manipulation of vector beams. <i>Nano Letters</i> , 2013 , 13, 4269-74	11.5	195
77	Large enhancement of nonlinear optical phenomena by plasmonic nanocavity gratings. <i>Nano Letters</i> , 2010 , 10, 4880-3	11.5	172
76	Independent phase modulation for quadruplex polarization channels enabled by chirality-assisted geometric-phase metasurfaces. <i>Nature Communications</i> , 2020 , 11, 4186	17.4	166

75	Metasurface orbital angular momentum holography. <i>Nature Communications</i> , 2019 , 10, 2986	17.4	161
74	Thermal tuning of mid-infrared plasmonic antenna arrays using a phase change material. <i>Optics Letters</i> , 2013 , 38, 368-70	3	158
73	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> , 2012 , 109, 12364-12368	11.5	139
72	Cosine-Gauss plasmon beam: a localized long-range nondiffracting surface wave. <i>Physical Review Letters</i> , 2012 , 109, 093904	7.4	135
71	Vanadium Dioxide as a Natural Disordered Metamaterial: Perfect Thermal Emission and Large Broadband Negative Differential Thermal Emittance. <i>Physical Review X</i> , 2013 , 3,	9.1	103
70	Effect of radiation damping on the spectral response of plasmonic components. <i>Optics Express</i> , 2011 , 19, 21748-53	3.3	102
69	Aberrations of flat lenses and aplanatic metasurfaces. <i>Optics Express</i> , 2013 , 21, 31530-9	3.3	101
68	Controlled steering of Cherenkov surface plasmon wakes with a one-dimensional metamaterial. <i>Nature Nanotechnology</i> , 2015 , 10, 804-9	28.7	94
67	Cavity soliton laser based on mutually coupled semiconductor microresonators. <i>Physical Review Letters</i> , 2008 , 101, 123905	7.4	93
66	All-optical delay line using semiconductor cavity solitons. <i>Applied Physics Letters</i> , 2008 , 92, 011101	3.4	89
65	Outfitting Next Generation Displays with Optical Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 3876-3895	6.3	85
64	Traditional and emerging materials for optical metasurfaces. <i>Nanophotonics</i> , 2017 , 6, 452-471	6.3	81
63	Modeling nanoscale V-shaped antennas for the design of optical phased arrays. <i>Physical Review B</i> , 2012 , 85,	3.3	81
62	Metasurface-integrated vertical cavity surface-emitting lasers for programmable directional lasing emissions. <i>Nature Nanotechnology</i> , 2020 , 15, 125-130	28.7	72
61	Enhancement of absorption and color contrast in ultra-thin highly absorbing optical coatings. <i>Applied Physics Letters</i> , 2013 , 103, 101104	3.4	69
60	Quantum-coherence-enhanced surface plasmon amplification by stimulated emission of radiation. <i>Physical Review Letters</i> , 2013 , 111, 043601	7.4	68
59	Ptychography retrieval of fully polarized holograms from geometric-phase metasurfaces. <i>Nature Communications</i> , 2020 , 11, 2651	17.4	64
58	Measurement of bound states in the continuum by a detector embedded in a photonic crystal. <i>Light: Science and Applications</i> , 2016 , 5, e16147	16.7	57

57	Nanophotonics for light detection and ranging technology. <i>Nature Nanotechnology</i> , 2021 , 16, 508-524	28.7	52
56	Holographic metalens for switchable focusing of surface plasmons. <i>Nano Letters</i> , 2015 , 15, 3585-9	11.5	47
55	Bistable and addressable localized vortices in semiconductor lasers. <i>Physical Review Letters</i> , 2010 , 104, 223902	7.4	47
54	Positioning cavity solitons with a phase mask. <i>Applied Physics Letters</i> , 2006 , 89, 221111	3.4	47
53	Modelling of free-form conformal metasurfaces. <i>Nature Communications</i> , 2018 , 9, 3494	17.4	41
52	Numerical Optimization Methods for Metasurfaces. <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900445	8.3	41
51	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. <i>Advanced Optical Materials</i> , 2014 , 2, 1193-1198	8.1	40
50	Polarization-insensitive 3D conformal-skin metasurface cloak. <i>Light: Science and Applications</i> , 2021 , 10, 75	16.7	39
49	Microresonator defects as sources of drifting cavity solitons. <i>Physical Review Letters</i> , 2009 , 102, 163901	7.4	34
48	Reflection and refraction of light from metasurfaces with phase discontinuities. <i>Journal of Nanophotonics</i> , 2012 , 6, 063532	1.1	33
47	Freestanding dielectric nanohole array metasurface for mid-infrared wavelength applications. <i>Optics Letters</i> , 2017 , 42, 2639-2642	3	29
46	Plasmonic topological metasurface by encircling an exceptional point. <i>Science</i> , 2021 , 373, 1133-1137	33.3	29
45	Generation of two-dimensional plasmonic bottle beams. <i>Optics Express</i> , 2013 , 21, 10295-300	3.3	28
44	Controlling electromagnetic fields at boundaries of arbitrary geometries. <i>Physical Review A</i> , 2016 , 94,	2.6	28
43	Multi-wavelength mid-infrared plasmonic antennas with single nanoscale focal point. <i>Optics Express</i> , 2011 , 19, 22113-24	3.3	27
42	Dipolar modeling and experimental demonstration of multi-beam plasmonic collimators. <i>New Journal of Physics</i> , 2011 , 13, 053057	2.9	26
41	Mitigating Chromatic Dispersion with Hybrid Optical Metasurfaces. <i>Advanced Materials</i> , 2019 , 31, e1805555	15	25
40	An Etching-Free Approach Toward Large-Scale Light-Emitting Metasurfaces. <i>Advanced Optical Materials</i> , 2019 , 7, 1801271	8.1	24

39	Stationary localized structures and pulsing structures in a cavity soliton laser. <i>Physical Review A</i> , 2009 , 79,	2.6	22
38	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> , 2014 , 111, E5623-32	11.5	21
37	Bandwidth-unlimited polarization-maintaining metasurfaces. <i>Science Advances</i> , 2021 , 7,	14.3	21
36	Broadband decoupling of intensity and polarization with vectorial Fourier metasurfaces. <i>Nature Communications</i> , 2021 , 12, 3631	17.4	19
35	Gate-Tunable Emission of Exciton-Plasmon Polaritons in Hybrid MoS ₂ -Gap-Mode Metasurfaces. <i>ACS Photonics</i> , 2019 , 6, 1594-1601	6.3	17
34	Room Temperature Electrically Driven Ultraviolet Plasmonic Lasers. <i>Advanced Optical Materials</i> , 2019 , 7, 1801681	8.1	17
33	Anisotropic Surface Plasmon Polariton Generation Using Bimodal V-Antenna Based Metastructures. <i>ACS Photonics</i> , 2017 , 4, 22-27	6.3	16
32	Global optimization of metasurface designs using statistical learning methods. <i>Scientific Reports</i> , 2019 , 9, 17918	4.9	16
31	Broadband mode conversion via gradient index metamaterials. <i>Scientific Reports</i> , 2016 , 6, 24529	4.9	14
30	Backward Phase-Matched Second-Harmonic Generation from Stacked Metasurfaces. <i>Physical Review Letters</i> , 2021 , 126, 033901	7.4	14
29	High-power low-divergence tapered quantum cascade lasers with plasmonic collimators. <i>Applied Physics Letters</i> , 2013 , 102, 191114	3.4	13
28	Mutual coherence of laser solitons in coupled semiconductor resonators. <i>European Physical Journal D</i> , 2010 , 59, 109-114	1.3	13
27	Optimization and uncertainty quantification of gradient index metasurfaces [Invited]. <i>Optical Materials Express</i> , 2019 , 9, 892	2.6	13
26	Printing polarization and phase at the optical diffraction limit: near- and far-field optical encryption. <i>Nanophotonics</i> , 2020 , 10, 697-704	6.3	11
25	Nonlocality Induced Cherenkov Threshold. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000149	8.3	11
24	On-Chip Generation of Structured Light Based on Metasurface Optoelectronic Integration. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000385	8.3	10
23	Optical Phase Transition in Semiconductor Quantum Metamaterials. <i>Physical Review Letters</i> , 2019 , 123, 117401	7.4	9
22	Long-lifetime coherence in a quantum emitter induced by a metasurface. <i>Physical Review A</i> , 2020 , 101,	2.6	9

21	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
20	Hybrid MoS ₂ -gap-mode metasurface photodetectors. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 374003	1.8	8
19	. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-4	1.8	8
18	Enhancement of optical processes in coupled plasmonic nanocavities [Invited]. <i>Applied Optics</i> , 2011 , 50, G56-62	0.2	8
17	Multistable monochromatic laser solitons. <i>Physical Review A</i> , 2010 , 81,	2.6	8
16	Multiobjective Statistical Learning Optimization of RGB Metalens. <i>ACS Photonics</i> , 2021 , 8, 2498-2508	6.3	8
15	Metasurface Optical Characterization Using Quadriwave Lateral Shearing Interferometry. <i>ACS Photonics</i> , 2021 , 8, 603-613	6.3	7
14	BIFURCATION DIAGRAM AND CONTROL OF LOCALIZED LASER STRUCTURES. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2012 , 21, 1250029	0.8	4
13	Space and Time Modulations of Light with Metasurfaces: Recent Progress and Future Prospects. <i>ACS Photonics</i> ,	6.3	3
12	Achromatic metasurfaces by dispersive phase compensation 2015 ,		2
11	Theoretical description of the transverse localised structures in a face to face VCSEL configuration. <i>European Physical Journal D</i> , 2010 , 59, 97-107	1.3	2
10	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> , 2021 , 9, 2170006	8.1	2
9	Optimization of metasurfaces under geometrical uncertainty using statistical learning. <i>Optics Express</i> , 2021 , 29, 29887-29898	3.3	2
8	Observation of True Optical Vortices in a Laser System. <i>Springer Series in Optical Sciences</i> , 2012 , 195-205	0.5	1
7	Revealing topological phase in Pancharatnam-Berry metasurfaces using mesoscopic electrostatics. <i>Nanophotonics</i> , 2020 , 9, 4711-4718	6.3	1
6	Vectorial Hologram Based on Pixelated Metasurface 2020 ,		1
5	Scattering by lossy anisotropic scatterers: A modal approach. <i>Journal of Applied Physics</i> , 2021 , 129, 113104	0.5	1
4	Dynamic phase manipulation of vertical-cavity surface-emitting lasers via on-chip integration of microfluidic channels. <i>Optics Express</i> , 2021 , 29, 1481-1491	3.3	0

- 3 Mid-Infrared Grayscale Metasurface Holograms. *Applied Sciences (Switzerland)*, **2020**, 10, 552 2.6
- 2 Enhanced Second-Harmonic Generation in a Single Microwire Based on Localized Surface Plasmon. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1900075 1.3
- 1 Controlling Light Propagation with Interfacial Phase Discontinuities **2013**, 171-217