

# Patrick Bouchon

## List of Publications by Year in descending order

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56  
papers

1,505  
citations

567144

15  
h-index

315616

38  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1450  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation and selection of tandem repeat loci for a Brucella MLVA typing assay. BMC Microbiology, 2006, 6, 9.	1.3	339
2	Wideband omnidirectional infrared absorber with a patchwork of plasmonic nanoantennas. Optics Letters, 2012, 37, 1038.	1.7	239
3	On-line resources for bacterial micro-evolution studies using MLVA or CRISPR typing. Biochimie, 2008, 90, 660-668.	1.3	131
4	Plasmonic planar antenna for wideband and efficient linear polarization conversion. Applied Physics Letters, 2014, 104, .	1.5	99
5	Light Funneling Mechanism Explained by Magnetoelectric Interference. Physical Review Letters, 2011, 107, 093902.	2.9	89
6	Total routing and absorption of photons in dual color plasmonic antennas. Applied Physics Letters, 2011, 99, .	1.5	85
7	Total funneling of light in high aspect ratio plasmonic nanoresonators. Applied Physics Letters, 2011, 98, .	1.5	76
8	Shaping the spatial and spectral emissivity at the diffraction limit. Applied Physics Letters, 2015, 107, .	1.5	70
9	Analytical description of subwavelength plasmonic MIM resonators and of their combination. Optics Express, 2013, 21, 7025.	1.7	60
10	Fast modal method for subwavelength gratings based on B-spline formulation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 696.	0.8	59
11	Metal-dielectric bi-atomic structure for angular-tolerant spectral filtering. Optics Letters, 2013, 38, 425.	1.7	29
12	High efficiency quasi-monochromatic infrared emitter. Applied Physics Letters, 2014, 104, 081101.	1.5	26
13	Absorbing metasurface created by diffractionless disordered arrays of nanoantennas. Applied Physics Letters, 2015, 107, .	1.5	25
14	Near-Field and Far-Field Thermal Emission of an Individual Patch Nanoantenna. Physical Review Letters, 2018, 121, 243901.	2.9	20
15	Optical Helmholtz resonators. Applied Physics Letters, 2014, 105, .	1.5	18
16	Electromagnetic modelization of spherical focusing on a one-dimensional grating thanks to a conical B-spline modal method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1692.	0.8	14
17	Giant field enhancement in electromagnetic Helmholtz nanoantenna. Physical Review B, 2014, 90, .	1.1	14
18	Funneling of light in combinations of metal-insulator-metal resonators. Journal of Nanophotonics, 2012, 6, 063534.	0.4	11

#	ARTICLE	IF	CITATIONS
19	High-quality-factor double Fabry-Pérot plasmonic nanoresonator. <i>Optics Letters</i> , 2017, 42, 5062.	1.7	11
20	Dispersion-based intertwined SEIRA and SPR effect detection of 2,4-dinitrotoluene using a plasmonic metasurface. <i>Optics Express</i> , 2020, 28, 39595.	1.7	11
21	Modal method for second harmonic generation in nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 275.	0.9	9
22	Reduced scattering-matrix algorithm for high-density plasmonic structures. <i>Optics Letters</i> , 2010, 35, 3222.	1.7	8
23	Fast modal method for crossed grating computation, combining finite formulation of Maxwell equations with polynomial approximated constitutive relations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 573.	0.8	8
24	Hybrid modes in a single thermally excited asymmetric dimer antenna. <i>Optics Letters</i> , 2021, 46, 981.	1.7	8
25	Rapid prototyping of flexible terahertz metasurfaces using a microplotter. <i>Optics Express</i> , 2021, 29, 8617.	1.7	8
26	Light scattering by correlated disordered assemblies of nanoantennas. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	7
27	Experimental demonstration of the optical Helmholtz resonance. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	5
28	Transition from Phononic to Geometrical Mie Modes Measured in Single Subwavelength Polar Dielectric Spheres. <i>ACS Photonics</i> , 2022, 9, 2295-2303.	3.2	5
29	Experimental demonstration of second-harmonic generation in high $\epsilon^2$ metasurfaces. <i>Optics Letters</i> , 2021, 46, 1466.	1.7	4
30	L-shaped metallic antenna for linear polarization conversion in reflection. , 2015, , .		3
31	Mode matching in second-order-susceptibility metal-dielectric structures. <i>Physical Review A</i> , 2016, 94, .	1.0	3
32	Towards perfect metallic behavior in optical resonant nanostructures. <i>Optics Express</i> , 2021, 29, 18458.	1.7	2
33	Spectrally exclusive phase masks for wavefront coding. <i>Optics Letters</i> , 2021, 46, 436.	1.7	2
34	4000-enhancement of difference frequency generation in a mode-matching metamaterial. <i>Optics Express</i> , 2020, 28, 27210.	1.7	2
35	Two-mode model for metal-dielectric guided-mode resonance filters. <i>Optics Express</i> , 2015, 23, 31672.	1.7	1
36	Extraordinary transmission in optical Helmholtz resonators. <i>Optics Letters</i> , 2015, 40, 2735.	1.7	1

#	ARTICLE	IF	CITATIONS
37	Multispectral inhomogeneous metasurface for emissivity control. Proceedings of SPIE, 2016, , .	0.8	1
38	Study of disordered metallic groove arrays with a one-mode analytical model. Optics Express, 2020, 28, 22549.	1.7	1
39	Versatile architecture of ultra-narrow band absorbing photonic nanostructure. EPJ Web of Conferences, 2020, 238, 05005.	0.1	1
40	Energetic analysis of the plasmonic lens structure: a first step to simplification. Proceedings of SPIE, 2013, , .	0.8	0
41	Huygens lens for angle compensation. Proceedings of SPIE, 2014, , .	0.8	0
42	Field enhancement and funneling of light in combinations of MIM resonators. , 2014, , .		0
43	Plasmonic planar antenna for wideband and efficient linear polarization conversion. , 2014, , .		0
44	Simulating the response of nanostructures under a focused beam. , 2014, , .		0
45	Plasmonic nano-antennas for spectral emissivity engineering. Proceedings of SPIE, 2015, , .	0.8	0
46	Plasmonic planar antenna for spectral and spatial manipulation of the polarization. Proceedings of SPIE, 2015, , .	0.8	0
47	Helmholtz resonator for electric field enhancement from visible to far-infrared. , 2015, , .		0
48	Optical structure based on the acoustic Helmholtz resonator. Proceedings of SPIE, 2015, , .	0.8	0
49	Mode matching in high non linear susceptibility metamaterials. , 2016, , .		0
50	Controlling the emissivity with plasmonic nano-antennas. Proceedings of SPIE, 2016, , .	0.8	0
51	Resonant nano-antennas for shaping the emission of light (Conference Presentation). , 2017, , .		0
52	Far-field to near-field investigation of thermal radiation emitted by a single optical nanoantenna. , 2017, , .		0
53	Rapid prototyping of a bispectral terahertz-to-infrared converter. Optics Express, 2021, 29, 18437.	1.7	0
54	Near-field and far-field studies of single and double sub- $\lambda$ sized infrared plasmonic nano-antennas. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	Three multispectral configurations of a snapshot kaleidoscope-based camera in long wavelength infrared spectral band. Applied Optics, 2020, 59, 7779.	0.9	0
56	Printed terahertz metasurfaces for multipsectral imaging by thermo-conversion. , 2022, , .		0