

# David F P Pile

## 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.

27  
papers

3,278  
citations

17  
h-index

57  
g-index

155  
ext. papers

3,819  
ext. citations

28.9  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
27	Redlining lasers for nuclear fusion. <i>Nature Photonics</i> , <b>2021</b> , 15, 863-865	33.9	0
26	Classical monument. <i>Nature Materials</i> , <b>2010</b> , 9, S6-S7	27	
25	Compressing surface plasmons for nano-scale optical focusing. <i>Optics Express</i> , <b>2009</b> , 17, 7519-24	3.3	93
24	Controlling the phase and amplitude of plasmon sources at a subwavelength scale. <i>Nano Letters</i> , <b>2009</b> , 9, 327-31	11.5	66
23	A hybrid plasmonic waveguide for subwavelength confinement and long-range propagation. <i>Nature Photonics</i> , <b>2008</b> , 2, 496-500	33.9	1446
22	Confinement and propagation characteristics of subwavelength plasmonic modes. <i>New Journal of Physics</i> , <b>2008</b> , 10, 105018	2.9	215
21	Directional coupler using gap plasmon waveguides. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 93, 99-106	1.9	35
20	Nanopin plasmonic resonator array and its optical properties. <i>Nano Letters</i> , <b>2007</b> , 7, 1076-80	11.5	60
19	Enhanced backward scattering by surface plasmons on silver film. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 87, 157-160	2.6	3
18	Adiabatic nanofocusing of plasmons by a sharp metal wedge on a dielectric substrate. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 104312	2.5	62
17	On long-range plasmonic modes in metallic gaps. <i>Optics Express</i> , <b>2007</b> , 15, 13669-74	3.3	30
16	Local electric field enhancement during nanofocusing of plasmons by a tapered gap. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	69
15	Characteristics of plasmonic waveguides and nonlinear metallic particles <b>2006</b> , 6324, 632401		4
14	Negative group velocity of surface plasmons on thin metallic films <b>2006</b> , 6323, 224		5
13	New Plasmon Waveguides Composed of Twin Metal Wedges with a Nano Gap. <i>Optical Review</i> , <b>2006</b> , 13, 228-230	0.9	2
12	Gap modes of one-dimensional photonic crystal surface waves. <i>Applied Optics</i> , <b>2005</b> , 44, 4398-401	1.7	2
11	Plasmonic subwavelength waveguides: next to zero losses at sharp bends. <i>Optics Letters</i> , <b>2005</b> , 30, 1186-8	3	125

10	Two-dimensionally localized modes of a nanoscale gap plasmon waveguide. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 261114	3.4	254
9	Nanoscale Fabry-Pérot Interferometer using channel plasmon-polaritons in triangular metallic grooves. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 161101	3.4	32
8	Compact-2D FDTD for waveguides including materials with negative dielectric permittivity, magnetic permeability and refractive index. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 607-613	1.9	17
7	Channel plasmon-polariton in a triangular groove on a metal surface. <i>Optics Letters</i> , <b>2004</b> , 29, 1069-71	3	267
6	Single-mode subwavelength waveguide with channel plasmon-polaritons in triangular grooves on a metal surface. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6323-6325	3.4	160
5	Higher-order extremely asymmetrical scattering. <i>Optical and Quantum Electronics</i> , <b>2003</b> , 35, 237-257	2.4	2
4	Second-order grazing-angle scattering in uniform wide holographic gratings. <i>Applied Physics B: Lasers and Optics</i> , <b>2003</b> , 76, 65-73	1.9	3
3	Frequency response of second-order extremely asymmetrical scattering in wide uniform holographic gratings. <i>Applied Physics B: Lasers and Optics</i> , <b>2003</b> , 77, 663-671	1.9	1
2	Extremely asymmetrical scattering in gratings with weak dissipation: some physical analogies. <i>Applied Physics B: Lasers and Optics</i> , <b>2002</b> , 75, 695-701	1.9	
1	Double-resonant extremely asymmetrical scattering of electromagnetic waves in non-uniform periodic arrays. <i>Optical and Quantum Electronics</i> , <b>2000</b> , 32, 1097-1124	2.4	10