

David F P Pile

List of Publications by Citations

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27
papers

3,278
citations

17
h-index

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g-index

155
ext. papers

3,819
ext. citations

28.9
avg, IF

5.43
L-index

#	Paper	IF	Citations
27	A hybrid plasmonic waveguide for subwavelength confinement and long-range propagation. <i>Nature Photonics</i> , 2008 , 2, 496-500	33.9	1446
26	Channel plasmon-polariton in a triangular groove on a metal surface. <i>Optics Letters</i> , 2004 , 29, 1069-71	3	267
25	Two-dimensionally localized modes of a nanoscale gap plasmon waveguide. <i>Applied Physics Letters</i> , 2005 , 87, 261114	3.4	254
24	Confinement and propagation characteristics of subwavelength plasmonic modes. <i>New Journal of Physics</i> , 2008 , 10, 105018	2.9	215
23	Single-mode subwavelength waveguide with channel plasmon-polaritons in triangular grooves on a metal surface. <i>Applied Physics Letters</i> , 2004 , 85, 6323-6325	3.4	160
22	Plasmonic subwavelength waveguides: next to zero losses at sharp bends. <i>Optics Letters</i> , 2005 , 30, 1186-8	3.8	125
21	Compressing surface plasmons for nano-scale optical focusing. <i>Optics Express</i> , 2009 , 17, 7519-24	3.3	93
20	Local electric field enhancement during nanofocusing of plasmons by a tapered gap. <i>Physical Review B</i> , 2007 , 75,	3.3	69
19	Controlling the phase and amplitude of plasmon sources at a subwavelength scale. <i>Nano Letters</i> , 2009 , 9, 327-31	11.5	66
18	Adiabatic nanofocusing of plasmons by a sharp metal wedge on a dielectric substrate. <i>Journal of Applied Physics</i> , 2007 , 101, 104312	2.5	62
17	Nanopin plasmonic resonator array and its optical properties. <i>Nano Letters</i> , 2007 , 7, 1076-80	11.5	60
16	Directional coupler using gap plasmon waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 93, 99-106	1.9	35
15	Nanoscale Fabry-Pérot Interferometer using channel plasmon-polaritons in triangular metallic grooves. <i>Applied Physics Letters</i> , 2005 , 86, 161101	3.4	32
14	On long-range plasmonic modes in metallic gaps. <i>Optics Express</i> , 2007 , 15, 13669-74	3.3	30
13	Compact-2D FDTD for waveguides including materials with negative dielectric permittivity, magnetic permeability and refractive index. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 607-613	1.9	17
12	Double-resonant extremely asymmetrical scattering of electromagnetic waves in non-uniform periodic arrays. <i>Optical and Quantum Electronics</i> , 2000 , 32, 1097-1124	2.4	10
11	Negative group velocity of surface plasmons on thin metallic films 2006 , 6323, 224		5

10	Characteristics of plasmonic waveguides and nonlinear metallic particles 2006 , 6324, 632401		4
9	Enhanced backward scattering by surface plasmons on silver film. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 87, 157-160	2.6	3
8	Second-order grazing-angle scattering in uniform wide holographic gratings. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 76, 65-73	1.9	3
7	Gap modes of one-dimensional photonic crystal surface waves. <i>Applied Optics</i> , 2005 , 44, 4398-401	1.7	2
6	New Plasmon Waveguides Composed of Twin Metal Wedges with a Nano Gap. <i>Optical Review</i> , 2006 , 13, 228-230	0.9	2
5	Higher-order extremely asymmetrical scattering. <i>Optical and Quantum Electronics</i> , 2003 , 35, 237-257	2.4	2
4	Frequency response of second-order extremely asymmetrical scattering in wide uniform holographic gratings. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 663-671	1.9	1
3	Redlining lasers for nuclear fusion. <i>Nature Photonics</i> , 2021 , 15, 863-865	33.9	0
2	Extremely asymmetrical scattering in gratings with weak dissipation: some physical analogies. <i>Applied Physics B: Lasers and Optics</i> , 2002 , 75, 695-701	1.9	
1	Classical monument. <i>Nature Materials</i> , 2010 , 9, S6-S7	27	