

Alain Dereux

List of Publications by Year in descending order

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214
papers

19,377
citations

36203

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215
all docs

215
docs citations

215
times ranked

13281
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface plasmon subwavelength optics. <i>Nature</i> , 2003, 424, 824-830.	13.7	10,571
2	Squeezing the Optical Near-Field Zone by Plasmon Coupling of Metallic Nanoparticles. <i>Physical Review Letters</i> , 1999, 82, 2590-2593.	2.9	571
3	Efficient unidirectional nanoslit couplers for surface plasmons. <i>Nature Physics</i> , 2007, 3, 324-328.	6.5	461
4	Near-field optics theories. <i>Reports on Progress in Physics</i> , 1996, 59, 657-699.	8.1	398
5	Generalized Field Propagator for Electromagnetic Scattering and Light Confinement. <i>Physical Review Letters</i> , 1995, 74, 526-529.	2.9	353
6	Near-field observation of surface plasmon polariton propagation on thin metal stripes. <i>Physical Review B</i> , 2001, 64, .	1.1	269
7	Gain-Assisted Propagation in a Plasmonic Waveguide at Telecom Wavelength. <i>Nano Letters</i> , 2009, 9, 2935-2939.	4.5	243
8	Plasmon polaritons of metallic nanowires for controlling submicron propagation of light. <i>Physical Review B</i> , 1999, 60, 9061-9068.	1.1	241
9	Launching and decoupling surface plasmons via micro-gratings. <i>Applied Physics Letters</i> , 2003, 83, 4936-4938.	1.5	175
10	Thermo-optic control of dielectric-loaded plasmonic waveguide components. <i>Optics Express</i> , 2010, 18, 1207.	1.7	169
11	Surface plasmon interference excited by tightly focused laser beams. <i>Optics Letters</i> , 2007, 32, 2535.	1.7	159
12	Surface plasmon polaritons on metal cylinders with dielectric core. <i>Physical Review B</i> , 2001, 64, .	1.1	146
13	Imaging the Local Density of States of Optical Corrals. <i>Physical Review Letters</i> , 2002, 88, 097402.	2.9	145
14	Optical near-field distributions of surface plasmon waveguide modes. <i>Physical Review B</i> , 2003, 68, .	1.1	143
15	Molecular Lifetime Changes Induced by Nanometer Scale Optical Fields. <i>Physical Review Letters</i> , 1995, 75, 3098-3101.	2.9	122
16	Iterative scheme for computing exactly the total field propagating in dielectric structures of arbitrary shape. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1994, 11, 1073.	0.8	121
17	Near-field characterization of Bragg mirrors engraved in surface plasmon waveguides. <i>Physical Review B</i> , 2004, 70, .	1.1	114
18	Dielectric-loaded surface plasmon polariton waveguides: Figures of merit and mode characterization by image and Fourier plane leakage microscopy. <i>Physical Review B</i> , 2008, 78, .	1.1	110

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19	Bend- and splitting loss of dielectric-loaded surface plasmon-polariton waveguides. Optics Express, 2008, 16, 13585.	1.7	103
20	Submicrometer In-Plane Integrated Surface Plasmon Cavities. Nano Letters, 2007, 7, 1352-1359.	4.5	102
21	Optical Analogy to Electronic Quantum Corrals. Physical Review Letters, 2001, 86, 4950-4953.	2.9	99
22	Selective Surface Modification of SiO ₂ ~TiO ₂ Supports with Phosphonic Acids. Chemistry of Materials, 2004, 16, 5670-5675.	3.2	99
23	Theoretical principles of near-field optical microscopies and spectroscopies. Journal of Chemical Physics, 2000, 112, 7775-7789.	1.2	98
24	Direct observation of localized surface plasmon coupling. Physical Review B, 1999, 60, 5029-5033.	1.1	97
25	Silencing and enhancement of second-harmonic generation in optical gap antennas. Optics Express, 2012, 20, 10498.	1.7	97
26	Dielectric-loaded plasmonic waveguide-ring resonators. Optics Express, 2009, 17, 2968.	1.7	92
27	Design, near-field characterization, and modeling of 45° surface-plasmon Bragg mirrors. Physical Review B, 2006, 73, .	1.1	91
28	Wavelength selection by dielectric-loaded plasmonic components. Applied Physics Letters, 2009, 94, .	1.5	87
29	Fluorescence relaxation in the near-field of a mesoscopic metallic particle: distance dependence and role of plasmon modes. Optics Express, 2008, 16, 17654.	1.7	86
30	Observation of Light Confinement Effects with a Near-Field Optical Microscope. Physical Review Letters, 1996, 77, 5332-5335.	2.9	84
31	Tuning of an Optical Dimer Nanoantenna by Electrically Controlling Its Load Impedance. Nano Letters, 2009, 9, 3914-3921.	4.5	79
32	Surface plasmon routing along right angle bent metal strips. Applied Physics Letters, 2005, 87, 221101.	1.5	77
33	Polymer-metal waveguides characterization by Fourier plane leakage radiation microscopy. Applied Physics Letters, 2007, 91, 243102.	1.5	76
34	Wavelength-selective directional coupling with dielectric-loaded plasmonic waveguides. Optics Letters, 2009, 34, 310.	1.7	76
35	Active plasmonics in WDM traffic switching applications. Scientific Reports, 2012, 2, 652.	1.6	76
36	Dielectric-loaded surface plasmon-polariton waveguides at telecommunication wavelengths: Excitation and characterization. Applied Physics Letters, 2008, 92, .	1.5	71

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37	Local detection of the optical magnetic field in the near zone of dielectric samples. <i>Physical Review B</i> , 2000, 62, 10504-10514.	1.1	69
38	Generation of optical standing waves around mesoscopic surface structures: Scattering and light confinement. <i>Physical Review B</i> , 1995, 52, 2889-2898.	1.1	68
39	Tailoring the transmittance of integrated optical waveguides with short metallic nanoparticle chains. <i>Physical Review B</i> , 2004, 69, .	1.1	68
40	Dielectric versus topographic contrast in near-field microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 1801.	0.8	67
41	van der Waals attraction between two C60 fullerene molecules and physical adsorption of C60 on graphite and other substrates. <i>Physical Review B</i> , 1994, 49, 11425-11432.	1.1	58
42	Optimization of surface plasmons launching from subwavelength hole arrays: modelling and experiments. <i>Optics Express</i> , 2007, 15, 3488.	1.7	58
43	Dielectric-loaded plasmonic waveguide components: Going practical. <i>Laser and Photonics Reviews</i> , 2013, 7, 938-951.	4.4	58
44	Optical spectroscopy of a surface at the nanometer scale: A theoretical study in real space. <i>Physical Review B</i> , 1994, 49, 11344-11351.	1.1	57
45	Importance of confined fields in near-field optical imaging of subwavelength objects. <i>Physical Review B</i> , 1994, 50, 14467-14473.	1.1	56
46	Light field propagation by metal micro- and nanostructures. <i>Journal of Microscopy</i> , 2001, 202, 122-128.	0.8	55
47	Gain, detuning, and radiation patterns of nanoparticle optical antennas. <i>Physical Review B</i> , 2008, 78, .	1.1	54
48	Polaritons in semiconductor multilayered materials. <i>Physical Review B</i> , 1988, 38, 5438-5452.	1.1	53
49	Performance of interdigitated nanoelectrodes for electrochemical DNA biosensor. <i>Ultramicroscopy</i> , 2003, 97, 441-449.	0.8	52
50	Efficient excitation of dielectric-loaded surface plasmon-polariton waveguide modes at telecommunication wavelengths. <i>Physical Review B</i> , 2008, 78, .	1.1	52
51	Fiber-coupled dielectric-loaded plasmonic waveguides. <i>Optics Express</i> , 2010, 18, 5314.	1.7	52
52	A 320 Gb/s-Throughput Capable 2 \times 2 Silicon-Plasmonic Router Architecture for Optical Interconnects. <i>Journal of Lightwave Technology</i> , 2011, 29, 3185-3195.	2.7	52
53	Performance of electro-optical plasmonic ring resonators at telecom wavelengths. <i>Optics Express</i> , 2012, 20, 2354.	1.7	52
54	Plasmonic Purcell factor and coupling efficiency to surface plasmons. Implications for addressing and controlling optical nanosources. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 094005.	1.0	50

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55	Interfacing Dielectric-Loaded Plasmonic and Silicon Photonic Waveguides: Theoretical Analysis and Experimental Demonstration. IEEE Journal of Quantum Electronics, 2012, 48, 678-687.	1.0	47
56	Purcell factor for a point-like dipolar emitter coupled to a two-dimensional plasmonic waveguide. Physical Review B, 2011, 84, .	1.1	46
57	Thermo-optic plasmophotonic mode interference switches based on dielectric loaded waveguides. Applied Physics Letters, 2011, 99, .	1.5	46
58	Optical magnetic near-field intensities around nanometer-scale surface structures. Physical Review B, 1997, 55, 16487-16497.	1.1	45
59	Relationship between scanning near-field optical images and local density of photonic states. Chemical Physics Letters, 2001, 345, 512-516.	1.2	44
60	Theory of near-field optics with applications to SNOM and optical binding. Physica B: Condensed Matter, 1991, 175, 65-67.	1.3	43
61	Silicon oxynitride multilayers as spectrally selective material for passive radiative cooling applications. Solar Energy Materials and Solar Cells, 1996, 40, 253-259.	3.0	43
62	Integrated plasmonic waveguides: A mode solver based on density of states formulation. Physical Review B, 2009, 80, .	1.1	43
63	Dielectric-loaded surface plasmon polariton waveguides on a finite-width metal strip. Applied Physics Letters, 2010, 96, .	1.5	43
64	Generalized Bloch equations for optical interactions in confined geometries. Chemical Physics Letters, 2005, 404, 44-48.	1.2	41
65	Theoretical analysis of light-inductive forces in scanning probe microscopy. Physical Review B, 1994, 49, 13872-13881.	1.1	40
66	Theory of near-field optical imaging with a single molecule as light source. Journal of Chemical Physics, 2002, 117, 4659-4666.	1.2	39
67	Efficient thermo-optically controlled Mach-Zehnder interferometers using dielectric-loaded plasmonic waveguides. Optics Express, 2012, 20, 16300.	1.7	38
68	DNA nanofilm thickness measurement on microarray in air and in liquid using an atomic force microscope. Biosensors and Bioelectronics, 2005, 21, 627-636.	5.3	37
69	Coupling of a dipolar emitter into one-dimensional surface plasmon. Scientific Reports, 2013, 3, 2734.	1.6	37
70	Design and Characterization of Dielectric-Loaded Plasmonic Directional Couplers. Journal of Lightwave Technology, 2009, 27, 5521-5528.	2.7	36
71	Optical addressing at the subwavelength scale. Physical Review E, 2000, 62, 7381-7388.	0.8	35
72	Optical gain, spontaneous and stimulated emission of surface plasmon polaritons in confined plasmonic waveguide. Optics Express, 2010, 18, 16327.	1.7	35

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73	048Tb/s (12x40Gb/s) WDM transmission and high-quality thermo-optic switching in dielectric loaded plasmonics. Optics Express, 2012, 20, 7655.	1.7	32
74	The Single Molecule Probe: Nanoscale Vectorial Mapping of Photonic Mode Density in a Metal Nanocavity. Nano Letters, 2009, 9, 1189-1195.	4.5	31
75	Mie Plasmons: Modes Volumes, Quality Factors, and Coupling Strengths (Purcell Factor) to a Dipolar Emitter. International Journal of Optics, 2012, 2012, 1-8.	0.6	31
76	Influence of the filling factor on the spectral properties of plasmonic crystals. Physical Review B, 2006, 74, .	1.1	30
77	Modulation of surface plasmon coupling-in by one-dimensional surface corrugation. New Journal of Physics, 2008, 10, 033035.	1.2	30
78	Refractive micro-optical elements for surface plasmons: from classical to gradient index optics. Optics Express, 2010, 18, 20610.	1.7	30
79	Influence of the Number of Nanoparticles on the Enhancement Properties of Surface-Enhanced Raman Scattering Active Area: Sensitivity versus Repeatability. ACS Nano, 2011, 5, 1630-1638.	7.3	29
80	Power monitoring in dielectric-loaded surface plasmon-polariton waveguides. Optics Express, 2011, 19, 2972.	1.7	29
81	Near-field observation of evanescent light wave coupling in subwavelength optical waveguides. Europhysics Letters, 2002, 57, 191-197.	0.7	27
82	Sorting of Enhanced Reference Raman Spectra of a Single Amino Acid Molecule. Journal of Physical Chemistry C, 2014, 118, 17975-17982.	1.5	27
83	Thermo-optic control of dielectric-loaded plasmonic Mach-Zehnder interferometers and directional coupler switches. Nanotechnology, 2012, 23, 444008.	1.3	26
84	Characterization of CMOS metal based dielectric loaded surface plasmon waveguides at telecom wavelengths. Optics Express, 2017, 25, 394.	1.7	26
85	Aluminum plasmonic waveguides co-integrated with Si3N4 photonics using CMOS processes. Scientific Reports, 2018, 8, 13380.	1.6	26
86	Octave Spanning Supercontinuum in Titanium Dioxide Waveguides. Applied Sciences (Switzerland), 2018, 8, 543.	1.3	26
87	Near-field optical properties of localized plasmons around lithographically designed nanostructures. Journal of Applied Physics, 1999, 86, 2576-2583.	1.1	25
88	Localized surface plasmons on a torus in the nonretarded approximation. Physical Review B, 2005, 72, .	1.1	25
89	Analysis of the angular acceptance of surface plasmon Bragg mirrors. Optics Letters, 2007, 32, 2704.	1.7	25
90	Leakage radiation microscopy of surface plasmon coupled emission: investigation of gain-assisted propagation in an integrated plasmonic waveguide. Journal of Microscopy, 2010, 239, 167-172.	0.8	25

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91	Thermo-optical control of dielectric loaded plasmonic racetrack resonators. Journal of Applied Physics, 2011, 110, 023106.	1.1	25
92	Data Transmission and Thermo-Optic Tuning Performance of Dielectric-Loaded Plasmonic Structures Hetero-Integrated on a Silicon Chip. IEEE Photonics Technology Letters, 2012, 24, 374-376.	1.3	25
93	Subwavelength mapping of surface photonic states. Nanotechnology, 2003, 14, 935-938.	1.3	24
94	Optical absorption of torus-shaped metal nanoparticles in the visible range. Physical Review B, 2007, 76, .	1.1	24
95	Momentum-space spectroscopy for advanced analysis of dielectric-loaded surface plasmon polariton coupled and bent waveguides. Physical Review B, 2013, 87, .	1.1	22
96	Surface-plasmon hopping along coupled coplanar cavities. Physical Review B, 2007, 76, .	1.1	21
97	Efficient photo-thermal activation of gold nanoparticle-doped polymer plasmonic switches. Optics Express, 2012, 20, 27636.	1.7	21
98	Scaling the Sensitivity of Integrated Plasm-Photonic Interferometric Sensors. ACS Photonics, 2019, 6, 1664-1673.	3.2	21
99	Magneto-optical effects in multilayers illuminated by total internal reflection. Physical Review B, 1999, 59, 5936-5944.	1.1	20
100	Spatially resolved photonic transfer through mesoscopic heterowires. Physical Review E, 2002, 65, 036616.	0.8	20
101	Thermo-electric detection of waveguided surface plasmon propagation. Applied Physics Letters, 2011, 99, .	1.5	20
102	Power monitoring in dielectric-loaded plasmonic waveguides with internal Wheatstone bridges. Optics Express, 2013, 21, 5300.	1.7	20
103	CMOS plasmonics in WDM data transmission: 200 Gb/s (8 Å– 25Gb/s) transmission over aluminum plasmonic waveguides. Optics Express, 2018, 26, 12469.	1.7	20
104	Electrodynamics of a Plane-Stratified Medium, with Applications to Electron-Energy-Loss Spectroscopy, Infrared Reflectivity Measurement and Attenuated Total Reflection. Physica Scripta, 1987, 35, 343-353.	1.2	19
105	Theory of electromagnetic energy transfer in three-dimensional structures. Ultramicroscopy, 1995, 61, 21-27.	0.8	19
106	Optical Binding in Scanning Probe Microscopy. Europhysics Letters, 1994, 26, 37-42.	0.7	18
107	Photonic nanopatterns of gold nanostructures indicate the excitation of surface plasmon modes of a wavelength of 50–100Ånm by scanning near-field optical microscopy. Journal of Microscopy, 2003, 209, 241-248.	0.8	18
108	Determinant role of the edges in defining surface plasmon propagation in stripe waveguides and tapered concentrators. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 226.	0.9	18

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109	Differential method for modeling dielectric-loaded surface plasmon polariton waveguides. <i>Optics Express</i> , 2008, 16, 17599.	1.7	17
110	A coupled lossy local-mode theory description of a plasmonic tip. <i>New Journal of Physics</i> , 2012, 14, 083041.	1.2	17
111	Electromagnetic fields in two-dimensional models of near-field optical microscope tips. <i>Ultramicroscopy</i> , 1995, 60, 1-9.	0.8	16
112	Addressing and imaging high optical index dielectric ridges in the optical near field. <i>Physical Review E</i> , 2001, 64, 066607.	0.8	16
113	Energy transfer in near-field optics. <i>Journal of Chemical Physics</i> , 2005, 123, 174709.	1.2	16
114	Statistical and Fourier Analysis for In-line Concentration Sensitivity in Single Molecule Dynamic-SERS. <i>ACS Photonics</i> , 2015, 2, 1266-1271.	3.2	16
115	Discrimination between Single Protein Conformations Using Dynamic SERS. <i>ACS Sensors</i> , 2016, 1, 676-680.	4.0	16
116	Flexible long-range surface plasmon polariton single-mode waveguide for optical interconnects. <i>Optical Materials Express</i> , 2018, 8, 469.	1.6	16
117	Electrodynamics in complex systems: Application to near-field probing of optical microresonators. <i>Physical Review E</i> , 1996, 54, 5752-5760.	0.8	15
118	Resonant optical tunnel effect through dielectric structures of subwavelength cross sections. <i>Physical Review E</i> , 1999, 59, 6097-6104.	0.8	15
119	Direct interpretation of near-field optical images. <i>Journal of Microscopy</i> , 2001, 202, 320-331.	0.8	15
120	Field susceptibility of a composite system: application to van der Waals dispersive interactions inside a finite line of physisorbed atoms. <i>Surface Science</i> , 1993, 295, 445-456.	0.8	14
121	Photonic transfer through subwavelength optical waveguides. <i>Europhysics Letters</i> , 1998, 44, 686-692.	0.7	14
122	Excitation of a one-dimensional evanescent wave by conical edge diffraction of surface plasmon. <i>Optics Express</i> , 2011, 19, 5303.	1.7	14
123	Active Plasmonics in True Data Traffic Applications: Thermo-Optic On/Off Gating Using a Silicon-Plasmonic Asymmetric Mach-Zehnder Interferometer. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1036-1038.	1.3	14
124	Grating Couplers for Fiber-to-Fiber Characterizations of Stand-Alone Dielectric Loaded Surface Plasmon Waveguide Components. <i>Journal of Lightwave Technology</i> , 2012, 30, 3118-3125.	2.7	14
125	Plasmonics co-integrated with silicon nitride photonics for high-sensitivity interferometric biosensing. <i>Optics Express</i> , 2019, 27, 17102.	1.7	14
126	Imaging of photonic nanopatterns by scanning near-field optical microscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 1295.	0.9	13

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127	External control of the scattering properties of a single optical nanoantenna. Applied Physics Letters, 2010, 96, 143116.	1.5	13
128	Far-field imaging of the electromagnetic local density of optical states. Optics Letters, 2008, 33, 300.	1.7	12
129	Nanosecond thermo-optical dynamics of polymer loaded plasmonic waveguides. Optics Express, 2013, 21, 27291.	1.7	12
130	Ultracompact and Low-Power Plasmonic MZI Switch Using Cyclomer Loading. IEEE Photonics Technology Letters, 2015, 27, 963-966.	1.3	12
131	Polariton Structure and Spectral Reflectance of Multilayered Semiconducting Materials. Physica Scripta, 1987, 35, 338-342.	1.2	11
132	Theoretical atomic-force-microscopy study of adsorbed fullerene molecules. Physical Review B, 1993, 48, 15417-15424.	1.1	11
133	Detection of the optical magnetic field by circular symmetry plasmons. Applied Surface Science, 2000, 164, 124-130.	3.1	11
134	Discerning the Origins of the Amplitude Fluctuations in Dynamic Raman Nanospectroscopy. Journal of Physical Chemistry C, 2012, 116, 26919-26923.	1.5	11
135	Plasmonic Stripes in Aqueous Environment Co-Integrated With Si ₃ N ₄ Photonics. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	11
136	Radiative and non-radiative polariton structure of superlattices. Physica Scripta, 1988, 38, 462-467.	1.2	10
137	Resonant ir laser stimulation of the desorption of methanol adsorbed on Cu(110). Physical Review B, 1992, 45, 8598-8609.	1.1	10
138	Near-field optical contrasts in the Fresnel evanescent wave. Physical Review E, 1998, 58, 1081-1085.	0.8	10
139	Addressing and imaging microring resonators with optical evanescent light. Physical Review B, 2004, 69, .	1.1	10
140	Near-field zone analysis of the Faraday rotation of magneto-optical thin films. Journal of Applied Physics, 2000, 88, 2541-2547.	1.1	9
141	Imaging surface photonic states with a circularly polarized tip. Europhysics Letters, 2004, 68, 797-803.	0.7	9
142	Mapping the 3D-surface strain field of patterned tensile stainless steels using atomic force microscopy. Ultramicroscopy, 2005, 103, 183-189.	0.8	9
143	Infrared laser stimulated desorption of adsorbates on metal surfaces. Journal of Electron Spectroscopy and Related Phenomena, 1987, 45, 261-268.	0.8	8
144	Frustrated energy transport through micro-waveguides decorated by gold nanoparticle chains. Europhysics Letters, 2004, 66, 785-791.	0.7	8

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145	Modelling resonant coupling between microring resonators addressed by optical evanescent waves. Nanotechnology, 2004, 15, 1200-1210.	1.3	8
146	Bringing Plasmonics Into CMOS Photonic Foundries: Aluminum Plasmonics on Si ₃ N ₄ for Biosensing Applications. Journal of Lightwave Technology, 2019, 37, 5516-5524.	2.7	8
147	Sublimation of pure C ₆₀ fullerene and of C ₆₀ adsorbed on MgO or graphite powders. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1994, 98, 1329-1331.	0.9	7
148	Scattering of electromagnetic waves by silicon-nitride tips. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 816.	1.6	7
149	Changes in surface stress, morphology and chemical composition of silica and silicon nitride surfaces during the etching by gaseous HF acid. Applied Surface Science, 2007, 253, 5101-5108.	3.1	7
150	SNOM signal near plasmonic nanostructures: an analogy with fluorescence decays channels. Journal of Microscopy, 2008, 229, 302-306.	0.8	7
151	Tb/s switching fabrics for optical interconnects using heterointegration of plasmonics and silicon photonics: The FP7 PLATON approach. , 2010, , .		7
152	Fiber-pigtailed temperature sensors based on dielectric-loaded plasmonic waveguide-ring resonators. Optics Express, 2011, 19, 26423.	1.7	7
153	Ultra-sensitive refractive index sensor using CMOS plasmonic transducers on silicon photonic interferometric platform. Optics Express, 2020, 28, 20992.	1.7	7
154	Efficient surface plasmon field confinement in one-dimensional crystal line-defect waveguides. Applied Physics Letters, 2006, 89, 211109.	1.5	6
155	Demonstration of a Plasmonic MMI Switch in 10-Cb/s True Data Traffic Conditions. IEEE Photonics Technology Letters, 2012, 24, 1819-1822.	1.3	6
156	Controlling Light Confinement by Excitation of Localized Surface Plasmons. , 2001, , 49-69.		6
157	Physical interaction between tip and molecules in scanning force microscopy imaging of adsorbed C ₆₀ and fullerene tubules. Journal of Chemical Physics, 1994, 101, 10973-10979.	1.2	5
158	Simultaneous observation of light localization and confinement in near-field optics. Europhysics Letters, 2001, 56, 517-522.	0.7	5
159	Near-field beam displacement at surface plasmon resonance. Physical Review B, 2011, 83, .	1.1	5
160	Water Cladded Plasmonic Slot Waveguide Vertically Coupled With Si ₃ N ₄ Photonics. IEEE Photonics Journal, 2018, 10, 1-8.	1.0	5
161	Optical Near Field Detection and Local Spectroscopy of a Surface: A Self-Consistent Theoretical Study. , 1993, , 199-208.		5
162	Kerr and Faraday Rotations of Magneto-Optical Multilayers under the Condition of Total Internal Reflection. Physica Status Solidi A, 1999, 175, 225-232.	1.7	4

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163	Near-field optical addressing of single molecules in coplanar geometry: a theoretical study. Journal of Microscopy, 2001, 202, 307-312.	0.8	4
164	Theory of Near-field Optical Imaging with a Single Molecule as Light Source. Single Molecules, 2002, 3, 311-312.	1.7	4
165	Super-Resolution Scanning Near-Field Optical Microscopy. , 2003, , 141-153.		4
166	Merging Plasmonics and Silicon Photonics Towards Greener and Faster "Network-on-Chip" Solutions for Data Centers and High-Performance Computing Systems. , 0, , .		4
167	Recess Photomask Contact Lithography and the fabrication of coupled silicon photonic and plasmonic waveguide switches. Microelectronic Engineering, 2015, 141, 129-134.	1.1	4
168	Sorting of Single Biomolecules based on Fourier Polar Representation of Surface Enhanced Raman Spectra. Scientific Reports, 2016, 6, 20383.	1.6	4
169	Correlation between electrical direct current resistivity and plasmonic properties of CMOS compatible titanium nitride thin films. Optics Express, 2018, 26, 9813.	1.7	4
170	Theory of Near Field Optics. , 1995, , 1-20.		4
171	Theory of Kerr effect in magnetic multilayered structures. Ultramicroscopy, 1995, 61, 57-62.	0.8	3
172	Chicanneet al.Reply:. Physical Review Letters, 2004, 93, .	2.9	3
173	Surface Plasmon Near-Field Imaging of Very Thin Microstructured Polymer Layers. Langmuir, 2004, 20, 10179-10185.	1.6	3
174	Single molecules probe local density of modes (LDOS) around photonic nanostructures. Journal of Microscopy, 2008, 229, 210-216.	0.8	3
175	Surface plasmon routing in dielectric-loaded surface plasmon polariton waveguides. , 2008, , .		3
176	Optimized factor of merit of the magneto-optical Kerr effect of ferromagnetic thin films. European Physical Journal B, 2000, 14, 419-422.	0.6	2
177	Parametric study of dielectric loaded surface plasmon polariton add-drop filters for hybrid silicon/plasmonic optical circuitry. , 2011, , .		2
178	Phonon-polariton density of states in semiconductor superlattices. Superlattices and Microstructures, 1987, 3, 547-552.	1.4	1
179	Classical and quantum tunneling in microstructures. Superlattices and Microstructures, 1990, 8, 29-33.	1.4	1
180	<title>Use of near-field microscopy to analyze the field behavior inside a Fabry-Perot cavity: experiments and theory</title>. , 1995, , .		1

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181	Martin, Girard, and Dereux Reply:. Physical Review Letters, 1996, 76, 2405-2405.	2.9	1
182	Near-field and far-field optical properties of thin metallic films. Journal of Applied Physics, 2001, 89, 1138-1144.	1.1	1
183	10 Gb/s Transmission and Thermo-Optic Resonance Tuning in Silicon-Plasmonic Waveguide Platform. , 2011, , .		1
184	Dielectric loaded surface plasmon waveguides for datacom applications. Proceedings of SPIE, 2012, , .	0.8	1
185	Low energy routing platforms for optical interconnects using active Plasmonics integrated with Silicon Photonics. , 2012, , .		1
186	Simulation of SFM Images of Adsorbed C 60 and C 70 Molecules. , 1995, , 183-189.		1
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