

J Roy Sambles

List of Publications by Year in descending order

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401
papers

14,173
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31976

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408
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408
docs citations

408
times ranked

9748
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic structures in biology. <i>Nature</i> , 2003, 424, 852-855.	27.8	1,731
2	Experimental Verification of Designer Surface Plasmons. <i>Science</i> , 2005, 308, 670-672.	12.6	749
3	Quantified interference and diffraction in single Morpho butterfly scales. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 1403-1411.	2.6	504
4	Physical origin of photonic energy gaps in the propagation of surface plasmons on gratings. <i>Physical Review B</i> , 1996, 54, 6227-6244.	3.2	472
5	Colour mixing in wing scales of a butterfly. <i>Nature</i> , 2000, 404, 457-457.	27.8	365
6	Molecular rectifier. <i>Physical Review Letters</i> , 1993, 70, 218-221.	7.8	363
7	Full Photonic Band Gap for Surface Modes in the Visible. <i>Physical Review Letters</i> , 1996, 77, 2670-2673.	7.8	357
8	Optical excitation of surface plasmons: An introduction. <i>Contemporary Physics</i> , 1991, 32, 173-183.	1.8	312
9	Long-range surface modes supported by thin films. <i>Physical Review B</i> , 1991, 44, 5855-5872.	3.2	286
10	Slow waves caused by cuts perpendicular to a single subwavelength slit in metal. <i>New Journal of Physics</i> , 2007, 9, 1-1.	2.9	279
11	Resonant Transmission of Microwaves through a Narrow Metallic Slit. <i>Physical Review Letters</i> , 2002, 89, 063901.	7.8	221
12	Scattering matrix method for propagation of radiation in stratified media: attenuated total reflection studies of liquid crystals. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1988, 5, 1863.	1.5	216
13	Now you see it " now you don't. <i>Nature</i> , 2001, 410, 36-36.	27.8	189
14	Stationary Surface Plasmons on a Zero-Order Metal Grating. <i>Physical Review Letters</i> , 1998, 80, 5667-5670.	7.8	163
15	Scattering-matrix approach to multilayer diffraction. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 1097.	1.5	143
16	Microwave Surface-Plasmon-Like Modes on Thin Metamaterials. <i>Physical Review Letters</i> , 2009, 102, 073901.	7.8	142
17	Rectifying characteristics of Mg (C16H33-Q3CNQ LB film) Pt structures. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 1374.	2.0	135
18	Fabrication and investigation of asymmetric current-voltage characteristics of a metal/Langmuir-Blodgett monolayer/metal structure. <i>Applied Physics Letters</i> , 1990, 56, 1916-1918.	3.3	126

#	ARTICLE	IF	CITATIONS
19	Determination of the optical permittivity and thickness of absorbing films using long range modes. <i>Journal of Modern Optics</i> , 1997, 44, 1155-1163.	1.3	119
20	Polarization conversion from diffraction gratings. <i>Physical Review B</i> , 1991, 44, 6393-6400.	3.2	116
21	Localized surface-plasmon resonances in periodic nondiffracting metallic nanoparticle and nanohole arrays. <i>Physical Review B</i> , 2009, 79, .	3.2	116
22	Optical characterisation of gold using surface plasmon-polaritons. <i>Journal of Physics F: Metal Physics</i> , 1987, 17, 277-287.	1.6	113
23	Finite Conductance Governs the Resonance Transmission of Thin Metal Slits at Microwave Frequencies. <i>Physical Review Letters</i> , 2004, 92, 147401.	7.8	111
24	Squeezing Millimeter Waves into Microns. <i>Physical Review Letters</i> , 2004, 92, 143904.	7.8	107
25	Gratingless enhanced microwave transmission through a subwavelength aperture in a thick metal plate. <i>Applied Physics Letters</i> , 2002, 81, 4661-4663.	3.3	106
26	Selective transmission through very deep zero-order metallic gratings at microwave frequencies. <i>Applied Physics Letters</i> , 2000, 77, 2789-2791.	3.3	100
27	Surface-topography-induced enhanced transmission and directivity of microwave radiation through a subwavelength circular metal aperture. <i>Applied Physics Letters</i> , 2004, 84, 2040-2042.	3.3	98
28	Dispersion of surface plasmon polaritons on short-pitch metal gratings. <i>Physical Review B</i> , 2002, 65, .	3.2	88
29	Photonic surfaces for surface-plasmon polaritons. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 1654.	1.5	85
30	Flat surface-plasmon-polariton bands and resonant optical absorption on short-pitch metal gratings. <i>Physical Review B</i> , 1999, 59, 12661-12666.	3.2	84
31	Thin metamaterial Luneburg lens for surface waves. <i>Physical Review B</i> , 2013, 87, .	3.2	83
32	Photonic gaps in the dispersion of surface plasmons on gratings. <i>Physical Review B</i> , 1995, 51, 11164-11167.	3.2	80
33	Coupled surface plasmon polaritons on thin metal slabs corrugated on both surfaces. <i>Physical Review B</i> , 2004, 70, .	3.2	77
34	Guided modes and surface plasmon-polaritons observed with a nematic liquid crystal using attenuated total reflection. <i>Liquid Crystals</i> , 1987, 2, 91-105.	2.2	76
35	Boundary-Layer Effects on Acoustic Transmission Through Narrow Slit Cavities. <i>Physical Review Letters</i> , 2015, 115, 044302.	7.8	76
36	Making Tunnel Barriers (Including Metals) Transparent. <i>Physical Review Letters</i> , 2006, 97, 053902.	7.8	75

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37	The resonant electromagnetic fields of an array of metallic slits acting as Fabry-Perot cavities. <i>Journal of Applied Physics</i> , 2006, 99, 124903.	2.5	74
38	Optical characterization of liquid crystals by means of half-leaky guided modes. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993, 10, 858.	2.1	73
39	Waveguide Arrays as Plasmonic Metamaterials: Transmission below Cutoff. <i>Physical Review Letters</i> , 2006, 96, 073904.	7.8	73
40	Long-range coupled surface exciton polaritons. <i>Physical Review Letters</i> , 1990, 64, 559-562.	7.8	71
41	Microwave Transmission of a Compound Metal Grating. <i>Physical Review Letters</i> , 2006, 96, 257402.	7.8	71
42	Limited-view iridescence in the butterfly <i>Ancyluris meliboeus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 7-14.	2.6	70
43	One-way diffraction grating. <i>Physical Review E</i> , 2006, 74, 056611.	2.1	68
44	Remarkable iridescence in the hindwings of the damselfly <i>Neurobasis chinensis chinensis</i> (Linnaeus) (Zygoptera: Calopterygidae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 595-601.	2.6	61
45	Resonant absorption of electromagnetic fields by surface plasmons buried in a multilayered plasmonic nanostructure. <i>Physical Review B</i> , 2006, 74, .	3.2	61
46	Electrical conduction in metal foils. <i>Journal of Physics F: Metal Physics</i> , 1980, 10, 1487-1494.	1.6	59
47	The electrical properties of metal-€sandwiched Langmuir-€Blodgett multilayers and monolayers of a redox-€active organic molecular compound. <i>Journal of Applied Physics</i> , 1992, 71, 756-768.	2.5	59
48	Surface plasmon mediated transmission of subwavelength slits at THz frequencies. <i>Physical Review B</i> , 2008, 77, .	3.2	59
49	Surface-plasmon energy gaps and photoluminescence. <i>Physical Review B</i> , 1995, 52, 11441-11445.	3.2	58
50	Accurate design of a noncollinear acousto-optic tunable filter. <i>Optics Letters</i> , 1991, 16, 429.	3.3	57
51	Surface plasmon polaritons on thin-slab metal gratings. <i>Physical Review B</i> , 2003, 67, .	3.2	56
52	The effects of surface scattering upon resistivity. <i>Journal of Physics F: Metal Physics</i> , 1982, 12, 1971-1987.	1.6	55
53	Double-period zero-order metal gratings as effective selective absorbers. <i>Physical Review B</i> , 2000, 61, 13177-13182.	3.2	55
54	Fully leaky guided mode study of the flexoelectric effect and surface polarization in hybrid aligned nematic cells. <i>Journal of Applied Physics</i> , 2002, 92, 19-24.	2.5	54

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55	Importance of diffraction in determining the dispersion of designer surface plasmons. <i>Physical Review B</i> , 2008, 78, .	3.2	53
56	Immobilisation of IgG onto gold surfaces and its interaction with anti-IgG studied by surface plasmon resonance. <i>Journal of Immunological Methods</i> , 1994, 175, 149-160.	1.4	52
57	A surface-plasmon-based optical sensor using acousto-optics. <i>Measurement Science and Technology</i> , 1995, 6, 1193-1200.	2.6	51
58	Sharp Surface-Plasmon Resonances on Deep Diffraction Gratings. <i>Physical Review Letters</i> , 1997, 79, 3978-3981.	7.8	51
59	Long-range surface mode supported by very thin silver films. <i>Physical Review Letters</i> , 1991, 66, 2030-2032.	7.8	48
60	Designer surface plasmon dispersion on a one-dimensional periodic slot metasurface with glide symmetry. <i>Optics Letters</i> , 2017, 42, 3375.	3.3	48
61	Detection of surface director reorientation in a nematic liquid crystal. <i>Applied Physics Letters</i> , 1987, 50, 871-873.	3.3	46
62	Periodic multilayer gratings of arbitrary shape. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 1740.	1.5	46
63	Molecular rectification with M (D- Γ -A LB film) M junctions. <i>Journal of Materials Chemistry</i> , 1999, 9, 2271-2275.	6.7	46
64	Optical determination of flexoelectric coefficients and surface polarization in a hybrid aligned nematic cell. <i>Physical Review E</i> , 2001, 64, 021708.	2.1	46
65	Molecular rectification at 8 K in an Au/C16H33Q-3CNQ LB film/ Au structure. <i>Applied Physics Letters</i> , 2002, 81, 2300-2302.	3.3	44
66	Tunable Fabry-Pérot etalon for terahertz radiation. <i>New Journal of Physics</i> , 2008, 10, 033012.	2.9	42
67	The resistivity of thin wires. <i>Journal of Physics F: Metal Physics</i> , 1982, 12, 1169-1183.	1.6	41
68	Characterization of reorientation of a thin layer of ferroelectric liquid-crystal material under an applied field by excitation of optical modes. <i>Applied Physics Letters</i> , 1989, 55, 1621-1623.	3.3	41
69	Surface plasmon-polariton study of the optical dielectric function of titanium nitride. <i>Journal of Modern Optics</i> , 1998, 45, 2051-2062.	1.3	41
70	Enhanced microwave transmission through a single subwavelength aperture surrounded by concentric grooves. <i>Journal of Optics</i> , 2005, 7, S152-S158.	1.5	41
71	Localized surface-plasmon resonances and negative refractive index in nanostructured electromagnetic metamaterials. <i>Physical Review B</i> , 2009, 80, .	3.2	41
72	A time resolved double pump-probe experimental technique to characterize excited-state parameters of organic dyes. <i>Applied Physics Letters</i> , 1997, 71, 10-12.	3.3	40

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73	Grating-coupled surface plasmons at microwave frequencies. Journal of Applied Physics, 1999, 86, 1791-1795.	2.5	40
74	Sensing using differential surface plasmon ellipsometry. Journal of Applied Physics, 2004, 96, 3004-3011.	2.5	40
75	Microwave Transmission through a Single Subwavelength Annular Aperture in a Metal Plate. Physical Review Letters, 2005, 94, 193902.	7.8	40
76	Strongly coupled surface plasmons on thin shallow metallic gratings. Physical Review B, 2008, 77, .	3.2	40
77	The optical tensor configuration in a surface stabilized ferroelectric liquid crystal determined by using half leaky guided modes. Liquid Crystals, 1993, 13, 1-11.	2.2	39
78	Surface profile dependence of surface plasmon band gaps on metallic gratings. Journal of Applied Physics, 1996, 79, 7383-7385.	2.5	39
79	Broadband polarization-converting mirror for the visible region of the spectrum. Optics Letters, 2002, 27, 2152.	3.3	39
80	Melting of Very Small Particles during Evaporation at Constant Temperature. Nature, 1970, 226, 938-938.	27.8	38
81	Excitation of remarkably nondispersive surface plasmons on a nondiffracting, dual-pitch metal grating. Applied Physics Letters, 2002, 80, 2410-2412.	3.3	38
82	Nonlinear absorption of a carbocyanine dye 1,1â€™,3,3,3â€™-hexamethylindotricarbocyanine iodide using a zâ€™-scan technique. Applied Physics Letters, 1995, 66, 1868-1870.	3.3	37
83	Microwave liquid crystal wavelength selector. Applied Physics Letters, 2001, 79, 3717-3719.	3.3	37
84	Prism coupling to 'designer' surface plasmons. Optics Express, 2008, 16, 20441.	3.4	37
85	Differential ellipsometric surface plasmon resonance sensors with liquid crystal polarization modulators. Applied Physics Letters, 2004, 85, 3017-3019.	3.3	36
86	Surface-resonance polarization conversion mediated by broken surface symmetry. Physical Review B, 1991, 44, 3483-3485.	3.2	35
87	Optical fully leaky mode characterization of a standard liquid-crystal cell. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 488.	2.1	35
88	Determination of the microwave permittivities of nematic liquid crystals using a single-metallic slit technique. Applied Physics Letters, 2002, 81, 2047-2049.	3.3	35
89	Thin resonant structures for angle and polarization independent microwave absorption. Applied Physics Letters, 2009, 94, 041913.	3.3	35
90	Mimicking glide symmetry dispersion with coupled slot metasurfaces. Applied Physics Letters, 2017, 111, .	3.3	35

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91	Surface plasmon-related resonances on deep and asymmetric gold gratings. <i>Physical Review B</i> , 2002, 65, .	3.2	34
92	Dielectric Biaxiality in S _C Host Systems. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 199, 277-285.	0.7	33
93	Microwave liquid-crystal variable phase grating. <i>Applied Physics Letters</i> , 2004, 85, 2041-2043.	3.3	33
94	The effect of sample thickness on the resistivity of aluminium. <i>Journal of Physics F: Metal Physics</i> , 1981, 11, 1075-1092.	1.6	31
95	Electrical characterisation of M/I/M structures incorporating thin layers of 22-tricosenoic acid deposited on noble metal base electrodes. <i>Journal Physics D: Applied Physics</i> , 1990, 23, 95-102.	2.8	31
96	Optical response of bigratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 2041.	1.5	31
97	Flow-driven transition and associated velocity profiles in a nematic liquid-crystal cell. <i>Physical Review E</i> , 2009, 80, 041706.	2.1	31
98	Polarization conversion from a thin cavity array in the microwave regime. <i>Scientific Reports</i> , 2015, 5, 9366.	3.3	31
99	Surface plasmon polaritons on narrow-ridged short-pitch metal gratings in the conical mount. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 836.	1.5	30
100	Analysis of Electric Field Induced Deformations in a Nematic Liquid Crystal for any Applied Field. <i>Molecular Crystals and Liquid Crystals</i> , 1987, 147, 25-42.	0.8	29
101	Excitation of molecular fluorescence via surface plasmon polaritons. <i>Journal of Modern Optics</i> , 1996, 43, 573-582.	1.3	29
102	Orientalional transition in a nematic liquid crystal at a patterned surface. <i>Physical Review E</i> , 2006, 74, 022701.	2.1	29
103	Macroscopic surface roughness and the resistivity of thin metal films. <i>Journal of Physics F: Metal Physics</i> , 1981, 11, 647-656.	1.6	28
104	Half-leaky guided wave determination of azimuthal anchoring energy and twist elastic constant of a homogeneously aligned nematic liquid crystal. <i>Journal of Applied Physics</i> , 1999, 85, 728-733.	2.5	28
105	Transmission of microwaves through a stepped subwavelength slit. <i>Applied Physics Letters</i> , 2007, 91, 251106.	3.3	28
106	Thin structured rigid body for acoustic absorption. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	28
107	Use of mode mixing to determine the optic tensor configuration of a thin ferroelectric liquid crystal layer. <i>Liquid Crystals</i> , 1990, 8, 577-585.	2.2	27
108	Surface plasmon resonance characterization of spin-deposited phthalocyanine films. <i>Journal of Materials Chemistry</i> , 1992, 2, 1105.	6.7	27

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109	Optical confirmation of the extended mean-field theory for a smectic-C* \leftrightarrow smectic-A transition. <i>Physical Review E</i> , 1994, 50, 2834-2838.	2.1	27
110	Surface plasmon polaritons on narrow-ridged short-pitch metal gratings. <i>Physical Review B</i> , 2002, 66, .	3.2	27
111	Self-Organized Periodic Photonic Structure in a Nonchiral Liquid Crystal. <i>Physical Review Letters</i> , 2003, 91, 033901.	7.8	27
112	Rapid switching in a dual-frequency hybrid aligned nematic liquid crystal cell. <i>Applied Physics Letters</i> , 2005, 87, 021106.	3.3	27
113	Molecular rectification, photodiodes and symmetry. <i>Nanotechnology</i> , 1996, 7, 401-405.	2.6	26
114	Shedding light on butterfly wings. , 2001, 4438, 85.		26
115	Differential formalism for multilayer diffraction gratings made with uniaxial materials. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 1965.	1.5	25
116	Reflection gratings as polarization converters. <i>Optics Communications</i> , 1997, 140, 179-183.	2.1	25
117	Homeotropic polar anchoring energy of a nematic liquid crystal using the fully leaky waveguide technique. <i>Journal of Applied Physics</i> , 2000, 88, 6175-6182.	2.5	24
118	Surface plasmon-polariton study of the optical dielectric function of zinc. <i>Journal of Modern Optics</i> , 1998, 45, 2585-2596.	1.3	23
119	Photonic band gaps in metallic microcavities. <i>Journal of Applied Physics</i> , 1998, 84, 2399-2403.	2.5	23
120	Fully leaky guided wave determination of the polar anchoring energy of a homogeneously aligned nematic liquid crystal. <i>Journal of Applied Physics</i> , 2000, 87, 2726-2735.	2.5	23
121	Dual-channel differential surface plasmon ellipsometry for bio-chemical sensing. <i>Biosensors and Bioelectronics</i> , 2009, 25, 411-417.	10.1	23
122	Azimuth-angle-dependent reflectivity data from metallic gratings. <i>Journal of Modern Optics</i> , 1998, 45, 1019-1028.	1.3	22
123	Some considerations on the transmissivity of thin metal films. <i>Optics Express</i> , 2008, 16, 17258.	3.4	22
124	Surface plasmon differential ellipsometry of aqueous solutions for bio-chemical sensing. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 105408.	2.8	22
125	Direct observation of negative-index microwave surface waves. <i>Scientific Reports</i> , 2016, 6, 22018.	3.3	22
126	A broadband metasurface Luneburg lens for microwave surface waves. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	22

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127	The Observation of Half Splayed States in Ferroelectric Liquid Crystal Filled Cells by the Excitation of Optic Modes. Japanese Journal of Applied Physics, 1990, 29, L641-L644.	1.5	21
128	Determination of azimuthal anchoring energy in grating-aligned twisted nematic liquid-crystal layers. Journal of Applied Physics, 1997, 82, 2483-2487.	2.5	21
129	Phase resonances on metal gratings of identical, equally spaced alternately tapered slits. Applied Physics Letters, 2009, 95, 041905.	3.3	21
130	Surface wave resonances supported on a square array of square metallic pillars. Applied Physics Letters, 2012, 100, .	3.3	21
131	Superheating of Bismuth. Nature: Physical Science, 1972, 239, 61-62.	0.8	20
132	The electrical resistivity of thin metal films with unlike surfaces. Journal Physics D: Applied Physics, 1982, 15, 1459-1467.	2.8	20
133	Highly sensitive optical measurement techniques based on acousto-optic devices. Applied Optics, 1994, 33, 7501.	2.1	20
134	Measurement of the refractive indices of a ferroelectric liquid crystal. Journal of Applied Physics, 1995, 78, 2187-2192.	2.5	20
135	Quantification of the azimuthal anchoring of a homogeneously aligned nematic liquid crystal using fully-leaky guided modes. Liquid Crystals, 1999, 26, 657-662.	2.2	20
136	Polarization rotator using a hybrid aligned nematic liquid crystal cell. Optics Express, 2007, 15, 4192.	3.4	20
137	Angle-independent microwave absorption by ultrathin microcavity arrays. Journal of Applied Physics, 2008, 104, 043105.	2.5	20
138	Surface plasmon polaritons on deep, narrow-ridged rectangular gratings. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1228.	2.1	20
139	The Configuration in a Ferroelectric Liquid Crystal Cell in Terms of a Rigid Chevron Structure. Molecular Crystals and Liquid Crystals, 1991, 200, 167-186.	0.7	19
140	Remarkable transmission of microwaves through a wall of long metallic bricks. Applied Physics Letters, 2001, 79, 2844-2846.	3.3	19
141	Introduction: new directions in liquid crystal science. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 2567-2571.	3.4	19
142	The mechanism of ac stabilization in ferroelectric liquidâ€crystalâ€filled cells. Journal of Applied Physics, 1990, 68, 1242-1246.	2.5	18
143	Standing-wave surface-plasmon resonances with overhanging zero-order metal gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 2869.	1.5	18
144	Coupling of near-grazing microwave photons to surface plasmon polaritons via a dielectric grating. Physical Review E, 2000, 61, 5900-5906.	2.1	18

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145	Optical resonances on sub-wavelength silver lamellar gratings. <i>Optics Express</i> , 2008, 16, 22003.	3.4	18
146	Electromagnetic resonances of a multilayer metal-dielectric stack. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 734.	2.1	18
147	Optical non-linearity in liquid crystals using surface plasmon-polaritons. <i>Journal of Physics Condensed Matter</i> , 1989, 1, 6231-6260.	1.8	17
148	Optical characterization of a uniaxial material by the polarization-conversion reflectivity technique. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1994, 11, 605.	2.1	17
149	Conical diffraction from multicoated gratings containing uniaxial materials. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 803.	1.5	17
150	Backflow in the relaxation of a hybrid aligned nematic cell. <i>Applied Physics Letters</i> , 2003, 82, 3156-3158.	3.3	17
151	Coupled surface plasmons on thin silver gratings. <i>Journal of Optics</i> , 2008, 10, 015007.	1.5	17
152	Low acoustic transmittance through a holey structure. <i>Physical Review B</i> , 2012, 85, .	3.2	17
153	Grating coupled liquid crystal waveguides using nematics and smectics. <i>Journal of Applied Physics</i> , 1993, 73, 3603-3607.	2.5	16
154	The influence of grating profile on surface plasmon polariton resonances recorded in different diffracted orders. <i>Journal of Modern Optics</i> , 1999, 46, 2157-2186.	1.3	16
155	The coupling of microwave radiation to surface plasmon polaritons and guided modes via dielectric gratings. <i>Journal of Applied Physics</i> , 2000, 87, 2677-2683.	2.5	16
156	Groove depth dependence of the anchoring strength of a zero order grating-aligned liquid crystal. <i>Liquid Crystals</i> , 2000, 27, 1207-1211.	2.2	16
157	Direct Optical Quantification of Backflow in a 90° Twisted Nematic Cell. <i>Physical Review Letters</i> , 2002, 88, 088301.	7.8	16
158	Small Surface Pretilt Strikingly Affects the Director Profile during Poiseuille Flow of a Nematic Liquid Crystal. <i>Physical Review Letters</i> , 2010, 104, 248301.	7.8	16
159	Convergent beam guided mode technique for use in liquid crystal studies. <i>Journal of Applied Physics</i> , 1999, 85, 3984-3987.	2.5	15
160	Fully leaky guided mode study of an orthoconic antiferroelectric liquid crystal cell deviating from perfect horizontal surface stabilization. <i>Journal of Applied Physics</i> , 2002, 91, 9667.	2.5	15
161	Optical characterization of a dual-frequency hybrid aligned nematic liquid crystal cell. <i>Optics Express</i> , 2005, 13, 2627.	3.4	15
162	A reanalysis of resistive size effects in tungsten. <i>Journal of Physics F: Metal Physics</i> , 1983, 13, 2281-2292.	1.6	14

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163	Spin waves in potassium and sodium at 80 GHz. Journal of Physics F: Metal Physics, 1984, 14, 2105-2131.	1.6	14
164	A study of the adsorption of alkanes on a thin metal film. Journal of Chemical Physics, 1993, 98, 651-654.	3.0	14
165	Surface plasmon polariton studies of 18-crown-6 metal-free phthalocyanine. Journal Physics D: Applied Physics, 1994, 27, 169-174.	2.8	14
166	Optical excitation of surface plasmon polaritons on 90° and 60° bi-gratings. Journal of Modern Optics, 1996, 43, 1351-1360.	1.3	14
167	Observation of backflow in the switch-on dynamics of a hybrid aligned nematic. Applied Physics Letters, 2004, 84, 46-48.	3.3	14
168	Remarkable Zeroth-Order Resonant Transmission of Microwaves through a Single Subwavelength Metal Slit. Physical Review Letters, 2005, 95, 187407.	7.8	14
169	Microwave transmissivity of a metamaterial dielectric stack. Applied Physics Letters, 2009, 95, .	3.3	14
170	Blue butterflies feel the heat. Nature Photonics, 2012, 6, 141-142.	31.4	14
171	Acoustic transmission through compound subwavelength slit arrays. Physical Review B, 2016, 94, .	3.2	14
172	Theoretical and experimental exploration of finite sample size effects on the propagation of surface waves supported by slot arrays. Physical Review B, 2017, 95, .	3.2	14
173	Letter Optical response of blazed and overhanging gratings using oblique Chandezon transformations. Journal of Modern Optics, 1997, 44, 1073-1080.	1.3	14
174	Lattice parameter changes in thin films of bismuth. Journal of Physics C: Solid State Physics, 1974, 7, 2263-2268.	1.5	13
175	Optical determination of the twist elastic constant of a smectic-C* liquid crystal. Physical Review E, 1996, 53, 674-680.	2.1	13
176	Optical response of blazed and overhanging gratings using oblique chandezon transformations. Journal of Modern Optics, 1997, 44, 1073-1080.	1.3	13
177	Optically resolving dynamic processes in commercial liquid crystal cells. Applied Physics Letters, 2000, 77, 2632-2634.	3.3	13
178	FULLY-LEAKY GUIDED MODE MEASUREMENT OF THE FLEXOELECTRIC CONSTANT ($\epsilon_{11} + \epsilon_{33}$) OF A NEMATIC LIQUID CRYSTAL. Molecular Crystals and Liquid Crystals, 2003, 401, 67-73.	0.9	13
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