Jean-Jacques Greffet

List of Publications by Year in Descending Order

224 papers	14,148 citations	58 h-index	114 g-index
262 ext. papers	15,987 ext. citations	5.1 avg, IF	6.44 L-index

#	Paper	IF	Citations
224	Metallo-dielectric metasurfaces for thermal emission with controlled spectral bandwidth and angular aperture. *Optical Materials Express*, **2022**, 12, 1	2.6	1
223	General relation between spatial coherence and absorption. *Optics Express*, **2021**, 29, 425	3.3	2
222	An incandescent metasurface for quasimonochromatic polarized mid-wave infrared emission modulated beyond 10 MHz. *Nature Communications*, **2021**, 12, 1492	17.4	8
221	Electrical generation of visible surface plasmon polaritons by a nanopillars antenna array. *APL Photonics*, **2021**, 6, 056102	5.2	
220	Time-frequency encoded single-photon generation and broadband single-photon storage with a tunable subradiant state. *Optica*, **2021**, 8, 95	8.6	2
219	Enhancing Light Absorption in a Nanovolume with a Nanoantenna: Theory and Figure of Merit. *ACS Photonics*, **2020**, 7, 1523-1528	6.3	2
218	Near-Resonant Light Scattering by a Subwavelength Ensemble of Identical Atoms. *Physical Review Letters*, **2020**, 124, 073403	7.4	9
217	Dispersion-based intertwined SEIRA and SPR effect detection of 2,4-dinitrotoluene using a plasmonic metasurface. *Optics Express*, **2020**, 28, 39595-39605	3.3	2
216	Surface Plasmon Polaritons Emission with Nanopatch Antennas: Enhancement by Means of Mode Hybridization. *ACS Photonics*, **2019**, 6, 2788-2796	6.3	16
215	Light Emission by a Thermalized Ensemble of Emitters Coupled to a Resonant Structure. *Advanced Optical Materials*, **2019**, 7, 1801697	8.1	8
214	Optical Transmission of an Atomic Vapor in the Mesoscopic Regime. *Physical Review Letters*, **2019**, 122, 113401	7.4	16
213	Strong Coupling of Nanoplatelets and Surface Plasmons on a Gold Surface. *ACS Photonics*, **2019**, 6, 2643-2648	7.1	7
212	Antenna surface plasmon emission by inelastic tunneling. *Nature Communications*, **2019**, 10, 4949	17.4	22
211	Quasi-confined ENZ mode in an anisotropic uniaxial thin slab. *Optics Express*, **2019**, 27, 12317-12335	3.3	5
210	Light Emission by Nonequilibrium Bodies: Local Kirchhoff Law. *Physical Review X*, **2018**, 8,	9.1	33
209	Light Trapping in Ultrathin CIGS Solar Cell With Absorber Thickness of 0.1 mum. *IEEE Journal of Photovoltaics*, **2018**, 8, 621-625	3.7	13
208	Enhancing thermal radiation with nanoantennas to create infrared sources with high modulation rates. *Optica*, **2018**, 5, 175	8.6	23

207	Tunable bandwidth and nonlinearities in an atom-photon interface with subradiant states. *Physical Review A*, **2018**, 98,	2.6	3
206	Plasmonic interferences of two-particle N00N states. *New Journal of Physics*, **2018**, 20, 053050	2.9	6
205	Revisiting the Role of Metallic Antennas to Control Light Emission by Lead Salt Nanocrystal Assemblies. *Physical Review Applied*, **2018**, 10,	4.3	6
204	Anti-coalescence of bosons on a lossy beam splitter. *Science*, **2017**, 356, 1373-1376	33.3	46
203	Revisiting thermal radiation in the near field. *Comptes Rendus Physique*, **2017**, 18, 24-30	1.4	7
202	Revisiting Quantum Optics with Surface Plasmons and Plasmonic Resonators. *ACS Photonics*, **2017**, 4, 2091-2101	6.3	66
201	Homogenization of an ensemble of interacting resonant scatterers. *Physical Review A*, **2017**, 96,	2.6	8
200	Revealing the spectral response of a plasmonic lens using low-energy electrons. *Physical Review B*, **2017**, 96,	3.3	4
199	Midinfrared Ultrastrong Light–Matter Coupling for THz Thermal Emission. *ACS Photonics*, **2017**, 4, 2550-2555	6.3	20
198	Remote preparation of single-plasmon states. *Physical Review B*, **2017**, 96,	3.3	10
197	Ultrathin Cu(In,Ga)Se2 based solar cells. *Thin Solid Films*, **2017**, 633, 55-60	2.2	35
196	Hyperbolic metamaterials and surface plasmon polaritons. *Optica*, **2017**, 4, 1409	8.6	32
195	Propagation of light through small clouds of cold interacting atoms. *Physical Review A*, **2016**, 94,	2.6	10
194	Generation and Spatial Control of Hybrid Tamm Plasmon/Surface Plasmon Modes. *ACS Photonics*, **2016**, 3, 1776-1781	6.3	28
193	Nanoantenna for Electrical Generation of Surface Plasmon Polaritons. *Physical Review Letters*, **2016**, 116, 106803	7.4	51
192	Coherent Scattering of Near-Resonant Light by a Dense Microscopic Cold Atomic Cloud. *Physical Review Letters*, **2016**, 116, 233601	7.4	80
191	Polaritonic modes in a dense cloud of cold atoms. *Physical Review A*, **2016**, 93,	2.6	32
190	Roadmap on optical energy conversion. *Journal of Optics (United Kingdom)*, **2016**, 18, 073004	1.7	69

189	A surface-scattering model satisfying energy conservation and reciprocity. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2016**, 171, 4-14	2.1	1
188	CMOS compatible metal-insulator-metal plasmonic perfect absorbers. *Optical Materials Express*, **2016**, 6, 2389	2.6	26
187	Single-plasmon interferences. *Science Advances*, **2016**, 2, e1501574	14.3	29
186	Plasmonic Metasurface for Directional and Frequency-Selective Thermal Emission. *Physical Review Applied*, **2015**, 4,	4.3	114
185	Influence of emissivity tailoring on radiative membranes thermal behavior for gas sensing applications. *Sensors and Actuators B: Chemical*, **2015**, 213, 53-58	8.5	3
184	Metallic metasurface as a directional and monochromatic thermal emitter **2015**,		3
183	Polarization-Controlled Confined Tamm Plasmon Lasers. *ACS Photonics*, **2015**, 2, 842-848	6.3	44
182	Temperature dependence of quantum dot fluorescence assisted by plasmonic nanoantennas. *Physical Review B*, **2015**, 91,	3.3	11
181	Non-blinking quantum dot with a plasmonic nanoshell resonator. *Nature Nanotechnology*, **2015**, 10, 170-5	38.7	142
180	High efficiency quasi-monochromatic infrared emitter. *Applied Physics Letters*, **2014**, 104, 081101	3.4	20
179	Giant field enhancement in electromagnetic Helmholtz nanoantenna. *Physical Review B*, **2014**, 90,	3.3	8
178	Design of highly efficient metallo-dielectric patch antennas for single-photon emission. *Optics Express*, **2014**, 22, 2337-47	3.3	36
177	Brewster "mode" in highly doped semiconductor layers: an all-optical technique to monitor doping concentration. *Optics Express*, **2014**, 22, 24294-303	3.3	38
176	Graphene optical-to-thermal converter. *Applied Physics Letters*, **2014**, 105, 211102	3.4	13
175	Hybrid metal/semiconductor lasers based on confined Tamm plasmons **2014**,		1
174	A hybrid plasmonic semiconductor laser. *Applied Physics Letters*, **2013**, 102, 101106	3.4	16
173	Epsilon-near-zero strong coupling in metamaterial-semiconductor hybrid structures. *Nano Letters*, **2013**, 13, 5391-6	11.5	139
172	Stimulated emission depletion microscopy resolves individual nitrogen vacancy centers in diamond nanocrystals. *ACS Nano*, **2013**, 7, 10912-9	16.7	90

171	Experimental evidence of nanometer-scale confinement of plasmonic eigenmodes responsible for hot spots in random metallic films. *Physical Review B*, **2013**, 88,	3.3	44
170	Controlling spontaneous emission with plasmonic optical patch antennas. *Nano Letters*, **2013**, 13, 1516-21	11.5	177
169	Tuning the electromagnetic local density of states in graphene-covered systems via strong coupling with graphene plasmons. *Physical Review B*, **2013**, 87,	3.3	46
168	Blackbody spectrum revisited in the near field. *Physical Review Letters*, **2013**, 110, 146103	7.4	94
167	Confined Tamm plasmon lasers. *Nano Letters*, **2013**, 13, 3179-84	11.5	163
166	Controlling Thermal Radiation with Surface Waves. *Challenges and Advances in Computational Chemistry and Physics*, **2013**, 283-327	0.7	1
165	Electrical modulation of emissivity. *Applied Physics Letters*, **2013**, 102, 081125	3.4	36
164	Using radiative transfer equation to model absorption by thin Cu(In,Ga)Se2 solar cells with Lambertian back reflector. *Optics Express*, **2013**, 21, 2563-80	3.3	11
163	Lambertian back reflector in Cu(InGa)Se2solar cell: optical modeling and characterization **2013**,		1
162	Epsilon-near-zero mode for active optoelectronic devices. *Physical Review Letters*, **2012**, 109, 237401	7.4	109
161	Hot Carrier Solar Cells: Controlling Thermalization in Ultrathin Devices. *IEEE Journal of Photovoltaics*, **2012**, 2, 506-511	3.7	13
160	Integral Equation Modeling of Doubly Periodic Structures With an Efficient PMCHWT Formulation. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 292-300	4.9	4
159	Experimental study of hot spots in gold/glass nanocomposite films by photoemission electron microscopy. *Physical Review B*, **2012**, 85,	3.3	34
158	Mo/Cu(In, Ga)Se2 back interface chemical and optical properties for ultrathin CIGSe solar cells. *Applied Surface Science*, **2012**, 258, 3058-3061	6.7	18
157	Toward high efficiency ultra-thin CIGSe based solar cells using light management techniques **2012**,		3
156	Coherent thermal infrared emission by two-dimensional silicon carbide gratings. *Physical Review B*, **2012**, 86,	3.3	58
155	Enhanced radiative heat transfer between nanostructured gold plates. *Physical Review B*, **2012**, 85,	3.3	73
154	Size-dependent infrared properties of MgO nanoparticles with evidence of screening effect. *Applied Physics Letters*, **2012**, 100, 241904	3.4	16

153	Introduction to Surface Plasmon Theory. *Springer Series in Optical Sciences*, **2012**, 105-148	0.5	2
152	Enhanced radiative heat transfer between nanostructured gold plates. *Journal of Physics: Conference Series*, **2012**, 395, 012154	0.3	5
151	Enhanced scattering and absorption due to the presence of a particle close to an interface. *Optics Express*, **2012**, 20 Suppl 4, A530-44	3.3	9
150	Berreman mode and epsilon near zero mode. *Optics Express*, **2012**, 20, 23971-7	3.3	157
149	Optical approaches to improve the photocurrent generation in Cu(In,Ga)Se2 solar cells with absorber thicknesses down to 0.5 μm. *Journal of Applied Physics*, **2012**, 112, 094902	2.5	35
148	Influence of a depletion layer on localized surface waves in doped semiconductor nanostructures. *Applied Physics Letters*, **2012**, 100, 091103	3.4	5
147	Radiative heat transfer between two dielectric nanogratings in the scattering approach. *Physical Review B*, **2012**, 86,	3.3	68
146	Superlens in the time domain. *Physical Review Letters*, **2012**, 109, 097405	7.4	24
145	Asymptotic expressions describing radiative heat transfer between polar materials from the far-field regime to the nanoscale regime. *Journal of Applied Physics*, **2012**, 111, 014311	2.5	19
144	Fast nanoscale heat-flux modulation with phase-change materials. *Physical Review B*, **2011**, 83,	3.3	75
143	Fast microfluidic temperature control for high resolution live cell imaging. *Lab on A Chip*, **2011**, 11, 484-9	7.2	42
142	Nanoscale heat flux between nanoporous materials. *Optics Express*, **2011**, 19 Suppl 5, A1088-103	3.3	145
141	Increasing the bandwidth of coaxial aperture arrays in radar frequencies. *Applied Physics A: Materials Science and Processing*, **2011**, 103, 645-648	2.6	
140	Dammak et al. Reply:. *Physical Review Letters*, **2011**, 107,	7.4	14
139	Statistical properties of spontaneous emission from atoms near a rough surface. *Physical Review A*, **2011**, 84,	2.6	9
138	Radiative heat transfer from a black body to dielectric nanoparticles. *Physical Review B*, **2011**, 84,	3.3	16
137	Impedance of a Nanoantenna and a Quantum Emitter **2011**,		1
136	Tailoring GaAs terahertz radiative properties with surface phonons polaritons. *Applied Physics Letters*, **2010**, 97, 161101	3.4	20

135	Influence of roughness on near-field heat transfer between two plates. *Physical Review B*, **2010**, 82,	3.3	28
134	Near-field heat transfer between a nanoparticle and a rough surface. *Physical Review B*, **2010**, 81,	3.3	28
133	Mesoscopic description of radiative heat transfer at the nanoscale. *Physical Review Letters*, **2010**, 105, 234301	7.4	136
132	Optical patch antennas for single photon emission using surface plasmon resonances. *Physical Review Letters*, **2010**, 104, 026802	7.4	179
131	Impedance of a nanoantenna and a single quantum emitter. *Physical Review Letters*, **2010**, 105, 117701	7.4	105
130	Quantum theory of spontaneous and stimulated emission of surface plasmons. *Physical Review B*, **2010**, 82,	3.3	101
129	Dielectric gratings for wide-angle, broadband absorption by thin film photovoltaic cells. *Applied Physics Letters*, **2010**, 97, 221111	3.4	22
128	Radiative heat transfer at nanoscale: Closed-form expression for silicon at different doping levels. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2010**, 111, 1005-1014	2.1	21
127	Effect of vortices on the spin-flip lifetime of atoms in superconducting atom-chips. *Europhysics Letters*, **2009**, 87, 13002	1.6	24
126	Radiative heat transfer at the nanoscale. *Nature Photonics*, **2009**, 3, 514-517	33.9	463
125	Surface plasmon Fourier optics. *Physical Review B*, **2009**, 79,	3.3	111
124	Quantum thermal bath for molecular dynamics simulation. *Physical Review Letters*, **2009**, 103, 190601	7.4	116
123	Huygens-Fresnel principle for surface plasmons. *Optics Express*, **2009**, 17, 17483-90	3.3	51
122	Influence of metallic nanoparticles on upconversion processes. *Journal of Applied Physics*, **2009**, 105, 033107	2.5	52
121	Radiative heat transfer at nanoscale mediated by surface plasmons for highly doped silicon. *Applied Physics Letters*, **2009**, 95, 231913	3.4	25
120	Electrical excitation of surface phonon-polaritons in III-V heterostructures: A Monte Carlo study. *Journal of Physics: Conference Series*, **2009**, 193, 012015	0.3	
119	Degree of polarization of thermal light emitted by gratings supporting surface waves. *Optics Express*, **2008**, 16, 5305-13	3.3	43
118	Near-field induction heating of metallic nanoparticles due to infrared magnetic dipole contribution. *Physical Review B*, **2008**, 77,	3.3	51

117	Radiative heat transfer between metallic nanoparticles. *Applied Physics Letters*, **2008**, 92, 201906	3.4	70
116	Improving selective thermal emission properties of three-dimensional macroporous silicon through porosity tuning. *Applied Physics Letters*, **2008**, 93, 081913	3.4	12
115	Enhanced absorption by nanostructured silicon. *Applied Physics Letters*, **2008**, 93, 193103	3.4	18
114	Effects of spatial dispersion in near-field radiative heat transfer between two parallel metallic surfaces. *Physical Review B*, **2008**, 77,	3.3	134
113	Polarization conversion with a photonic crystal slab. *Journal of the European Optical Society-Rapid Publications*, **2008**, 3,	2.5	4
112	Thermo-resistance based micro-calorimeter for continuous chemical enthalpy measurements. *Microelectronic Engineering*, **2008**, 85, 1367-1369	2.5	7
111	Coherent thermal radiation. *Contemporary Physics*, **2007**, 48, 183-194	3.3	18
110	Microlitre hot strip devices for thermal characterization of nanofluids. *Microelectronic Engineering*, **2007**, 84, 1194-1197	2.5	7
109	Anisotropic Polarized Emission of a Doped Silicon Lamellar Grating. *Journal of Heat Transfer*, **2007**, 129, 11-16	1.8	29
108	Light scattering by a random distribution of particles embedded in absorbing media: diagrammatic expansion of the extinction coefficient. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2007**, 24, 2943-52	1.8	20
107	Light scattering by a random distribution of particles embedded in absorbing media: full-wave Monte Carlo solutions of the extinction coefficient. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2007**, 24, 2953-62	1.8	26
106	Speckle Pattern in the Near Field. *Nanostructure Science and Technology*, **2007**, 409-433	0.9	1
105	Heat transfer between a nano-tip and a surface. *Nanotechnology*, **2006**, 17, 2978-2981	3.4	42
104	Coherent thermal antenna using a photonic crystal slab. *Physical Review Letters*, **2006**, 96, 123903	7.4	80
103	Near-field thermophotovoltaic energy conversion. *Journal of Applied Physics*, **2006**, 100, 063704	2.5	276
102	Photon diffusion coefficient in scattering and absorbing media. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2006**, 23, 1106-10	1.8	36
101	Thermal radiation scanning tunnelling microscopy. *Nature*, **2006**, 444, 740-3	50.4	360
100	Radiative and non-radiative decay of a single molecule close to a metallic nanoparticle. *Optics Communications*, **2006**, 261, 368-375	2	307

99	Heat transfer between two nanoparticles through near field interaction. *Physical Review Letters*, **2005**, 94, 085901	7.4	176
98	Resonant optical antennas. *Science*, **2005**, 308, 1607-9	33.3	1712
97	Spatial coherence in strongly scattering media. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2005**, 22, 2329-37	1.8	13
96	Resonant transmission through a metallic film due to coupled modes. *Optics Express*, **2005**, 13, 70-6	3.3	82
95	Highly directional radiation generated by a tungsten thermal source. *Optics Letters*, **2005**, 30, 2623-5	3	110
94	Tailoring silicon radiative properties. *Optics Communications*, **2005**, 250, 316-320	2	29
93	Surface electromagnetic waves thermally excited: Radiative heat transfer, coherence properties and Casimir forces revisited in the near field. *Surface Science Reports*, **2005**, 57, 59-112	12.9	613
92	Applied physics. Nanoantennas for light emission. *Science*, **2005**, 308, 1561-3	33.3	160
91	Spatial and Temporal Coherence in a Random Medium : Transition between Ballistic to Diffusive Regime **2005**, FThC2		
90	Resonant optical transmission through a photonic crystal in the forbidden gap. *Physical Review B*, **2005**, 71,	3.3	5
89	Radiative and non-radiative coupling between a molecule and a metallic tip. *European Physical Journal Special Topics*, **2004**, 119, 281-282		
88	Engineering infrared emission properties of silicon in the near field and the far field. *Optics Communications*, **2004**, 237, 379-388	2	67
87	Friction forces arising from fluctuating thermal fields. *Physical Review A*, **2004**, 69,	2.6	58
86	Single-molecule spontaneous emission close to absorbing nanostructures. *Applied Physics Letters*, **2004**, 85, 3863-3865	3.4	181
85	Beyond the diffusing-wave spectroscopy model for the temporal fluctuations of scattered light. *Physical Review Letters*, **2004**, 92, 213903	7.4	28
84	Influence of microroughness on emissivity. *Journal of Applied Physics*, **2004**, 96, 2656-2664	2.5	70
83	Diffusive-to-ballistic transition in dynamic light transmission through thin scattering slabs: a radiative transfer approach. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2004**, 21, 1430-7	1.8	46
82	Resonant infrared transmission through SiC films. *Optics Letters*, **2004**, 29, 2178-80	3	15

81	Coupled surface polaritons and the Casimir force. *Physical Review A*, **2004**, 69,	2.6	50
80	Coherent spontaneous emission of light by thermal sources. *Physical Review B*, **2004**, 69,	3.3	121
79	Coherent Spontaneous Emission of Light Due to Surface Waves **2003**, 163-182		4
78	Radiative properties of scattering and absorbing dense media: theory and experimental study. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2003**, 77, 193-210	2.1	18
77	Definition of the diffusion coefficient in scattering and absorbing media. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2003**, 20, 678-85	1.8	21
76	Influence of spatial coherence on scattering by a particle. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2003**, 20, 2315-20	1.8	20
75	Definition and measurement of the local density of electromagnetic states close to an interface. *Physical Review B*, **2003**, 68,	3.3	262
74	Nanoscale radiative heating of a sample with a probe. *Journal of Magnetism and Magnetic Materials*, **2002**, 249, 462-465	2.8	2
73	The diffusion of partially coherent beams in turbulent media. *Optics Communications*, **2002**, 208, 1-8	2	53
72	Coherent emission of light by thermal sources. *Nature*, **2002**, 416, 61-4	50.4	915
71	Radiation forces on small particles in thermal near fields. *Journal of Optics*, **2002**, 4, S109-S114		88
70	Time-dependent transport through scattering media: from radiative transfer to diffusion. *Journal of Optics*, **2002**, 4, S103-S108		52
69	Theory of near-field magneto-optical imaging. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2002**, 19, 572-83	1.8	16
68	ENHANCED RADIATIVE HEAT TRANSFER AT NANOMETRIC DISTANCES. *Microscale Thermophysical Engineering*, **2002**, 6, 209-222		253
67	Light scattering from cold rolled aluminum surfaces. *Optics Communications*, **2001**, 187, 289-294	2	5
66	Tip-shape effects on electrostatic force microscopy resolution. *Nanotechnology*, **2001**, 12, 496-499	3.4	50
65	Influence of tip modulation on image formation in scanning near-field optical microscopy. *Journal of Applied Physics*, **2001**, 89, 5159-5169	2.5	51
64	Comment on Radiative transfer over small distances from a heated metal. *Optics Letters*, **2001**, 26, 480-13		7

63	Scattering by a slab containing randomly located cylinders: comparison between radiative transfer and electromagnetic simulation. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2001**, 18, 374-84	1.8	23
62	Theoretical and experimental investigation of the extinction in a dense distribution of particles: nonlocal effects. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2001**, 18, 3072-6	1.8	18
61	Nanoscale radiative heat transfer between a small particle and a plane surface. *Applied Physics Letters*, **2001**, 78, 2931-2933	3.4	187
60	Scattering by a Thin Slab: Comparison Between Radiative Transfer and Electromagnetic Simulation **2001**, 299-305		
59	Spatial coherence of thermal near fields. *Optics Communications*, **2000**, 186, 57-67	2	94
58	Theory of electromagnetic field imaging and spectroscopy in scanning near-field optical microscopy. *Journal of Applied Physics*, **2000**, 88, 4845	2.5	55
57	Scattering of a diffusive wave by a subsurface object. *Journal of Applied Physics*, **2000**, 87, 7638-7646	2.5	10
56	Near-field spectral effects due to electromagnetic surface excitations. *Physical Review Letters*, **2000**, 85, 1548-51	7.4	249
55	Reciprocity, unitarity, and time-reversal symmetry of the S matrix of fields containing evanescent components. *Physical Review A*, **2000**, 62,	2.6	68
54	Theory of electrostatic probe microscopy: A simple perturbative approach. *Applied Physics Letters*, **2000**, 76, 2955-2957	3.4	55
53	Near-field optical spectroscopy using an incoherent light source. *Applied Physics Letters*, **2000**, 76, 397-399	3.4	40
52	Scattering by randomly rough dielectric surfaces and rough dielectric films: influence of the height distribution. *Journal of Optics*, **1999**, 1, 560-565		13
51	Optical contrast, topographic contrast and artifacts in illumination-mode scanning near-field optical microscopy. *Journal of Applied Physics*, **1999**, 86, 648-656	2.5	22
50	Near-Field Effects in Spatial Coherence of Thermal Sources. *Physical Review Letters*, **1999**, 82, 1660-1663	7.4	238
49	Light scattering by a two-dimensional, rough penetrable medium: A mean-field theory. *Radio Science*, **1999**, 34, 311-335	1.4	25
48	Contrast mechanisms in illumination-mode SNOM. *Ultramicroscopy*, **1998**, 71, 39-48	3.1	5
47	Polarization effects in the optical interaction between a nanoparticle and a corrugated surface: implications for apertureless near-field microscopy. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1998**, 15, 109	1.8	28
46	Mean-field theory of light scattering by one-dimensional rough surfaces. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1998**, 15, 528	1.8	27

45	Reciprocity of evanescent electromagnetic waves. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1998**, 15, 706	1.8	78
44	Field theory for generalized bidirectional reflectivity: derivation of Helmholtz reciprocity principle and Kirchhoff law. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1998**, 15, 2735	1.8	140
43	A numerical evaluation of Rayleigh's theory applied to scattering by randomly rough dielectric surfaces. *Waves in Random and Complex Media*, **1998**, 8, 79-101		3
42	. *Waves in Random and Complex Media*, **1998**, 8, 79-101		3
41	Optical content and resolution of near-field optical images: Influence of the operating mode. *Journal of Applied Physics*, **1997**, 82, 501-509	2.5	53
40	Experimental and theoretical study of reflection and coherent thermal emissionby a SiC grating supporting a surface-phonon polariton. *Physical Review B*, **1997**, 55, 10105-10114	3.3	151
39	Structure of the electromagnetic field in a slab of photonic crystal. *Journal of the Optical Society of America B: Optical Physics*, **1997**, 14, 339	1.7	12
38	Image formation in near-field optics. *Progress in Surface Science*, **1997**, 56, 133-237	6.6	280
37	On the equivalence between the illumination and collection modes of the scanning near-field optical microscope. *Optics Communications*, **1997**, 142, 7-13	2	30
36	Direct reconstruction of surfaces from near-field intensity under spatially incoherent illumination. *Optics Letters*, **1996**, 21, 501-3	3	21
35	Equivalence of constant-height and constant-intensity images in scanning near-field optical microscopy. *Optics Letters*, **1996**, 21, 1208-10	3	15
34	Analysis of image formation with a photon scanning tunneling microscope. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1996**, 13, 1	1.8	7
33	Analysis of image formation with a photon scanning tunneling microscope. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1996**, 13, 35	1.8	23
32	Propagation and localization of a surface plasmon polariton on a finite grating. *Journal of the Optical Society of America B: Optical Physics*, **1996**, 13, 1499	1.7	34
31	Optical properties of glasses or films containing nanoclusters: a numerical simulation. *Journal of Non-Crystalline Solids*, **1996**, 196, 95-100	3.9	
30	Theory of Imaging in Near-field Microscopy **1996**, 1-26		1
29	Study of the features of PSTM images by means of a perturbative approach. *Ultramicroscopy*, **1995**, 57, 246-250	3.1	24
28	Relationship between the near-field speckle pattern and the statistical properties of a surface. *Ultramicroscopy*, **1995**, 61, 43-50	3.1	17

27	Reconstruction of the dielectric contrast profile from near-field data. *Ultramicroscopy*, **1995**, 61, 11-16	3.1	19
26	Backscattering enhancement by subsurface particles. *Optics Communications*, **1995**, 114, 13-17	2	3
25	Surface profile reconstruction using near-field data. *Optics Communications*, **1995**, 116, 20-24	2	60
24	Two-dimensional numerical simulation of the photon scanning tunneling microscope. Concept of transfer function. *Optics Communications*, **1995**, 116, 316-321	2	83
23	Scattering by 2D particles deposited on a dielectric planar waveguide: a near-field and far-field study. *Waves in Random and Complex Media*, **1995**, 5, 145-155		8
22	Influence of dielectric contrast and topography on the near field scattered by an inhomogeneous surface. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1995**, 12, 2716	1.8	77
21	Design of surface microrelief with selective radiative properties. *International Journal of Heat and Mass Transfer*, **1994**, 37, 553-558	4.9	17
20	Numerical simulation of the mean field in a composite medium. *Physica A: Statistical Mechanics and Its Applications*, **1994**, 207, 146-150	3.3	3
19	Scattering of a surface plasmon polariton by a surface defect. *Physical Review B*, **1994**, 50, 15261-15275	3.3	61
18	Near field scattered by a dielectric rod below a metallic surface. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1994**, 11, 1117	1.8	59
17	Coherent reflection factor of a random rough surface: applications. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1993**, 10, 2637	1.8	23
16	Nonspecular reflection from a lossy dielectric. *Optics Letters*, **1993**, 18, 1129	3	17
15	Near field scattered by subsurface particles **1993**, 209-220		
14	Nonspecular astigmatic reflection of a 3D gaussian beam on an interface. *Optics Communications*, **1992**, 93, 271-276	2	27
13	Scattering by deep inhomogeneous gratings. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1992**, 9, 996	1.8	22
12	Application of the pulsed photothermal effect to fast surface temperature measurements. *Applied Optics*, **1992**, 31, 5350-8	1.7	20
11	Theoretical model of the shift of the Brewster angle on a rough surface. *Optics Letters*, **1992**, 17, 238-40	3	41
10	Diffraction of electromagnetic waves by crossed gratings: a series solution. *Optics Letters*, **1992**, 17, 1740	3.2	25

9	Backscattering of s-polarized light from a cloud of small particles above a dielectric substrate. *Waves in Random and Complex Media*, **1991**, 1, S65-S73		17
8	Comparison between theoretical and experimental scattering of an s-polarized electromagnetic wave by a two-dimensional obstacle on a surface. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1991**, 8, 1261	1.8	15
7	Noncontact surface temperature measurement by means of a modulated photothermal effect. *Applied Optics*, **1990**, 29, 979-87	1.7	31
6	Scattering of electromagnetic waves by a grating: a numerical evaluation of the iterative-series solution. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1990**, 7, 1483	1.8	14
5	Scattering of s-polarized electromagnetic waves by a 2d obstacle near an interface. *Optics Communications*, **1989**, 72, 274-278	2	38
4	Design Of A Fully Automated Bidirectional Laser Reflectometer; Application To Emissivity Measurement **1989**, 0967, 184		1
3	Scattering of electromagnetic waves by rough dielectric surfaces. *Physical Review B*, **1988**, 37, 6436-6441	3.3	56
2	Electrons and phonons. *Journal of Physics and Chemistry of Solids*, **1960**, 15, 359-360	3.9	4
1	Laws of Macroscopic Heat Transferand Their Limits1-13		4