Mark L. Brongersma

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.

182 papers	27,329 citations	73 h-index	164 g-index
193 ext. papers	31,214 ext. citations	12.5 avg, IF	7.45 L-index

#	Paper	IF	Citations
182	High-specific-power flexible transition metal dichalcogenide solar cells. *Nature Communications*, **2021**, 12, 7034	17.4	11
181	Electrical tuning of phase-change antennas and metasurfaces. *Nature Nanotechnology*, **2021**, 16, 667-672	28.7	61
180	Plasmon Launching and Scattering by Silicon Nanoparticles. *ACS Photonics*, **2021**, 8, 1582-1591	6.3	10
179	Self-Assembled Nano Lotus Pod Metasurface for Light Trapping. *ACS Photonics*, **2021**, 8, 1616-1622	6.3	1
178	All-solid-state spatial light modulator with independent phase and amplitude control for three-dimensional LiDAR applications. *Nature Nanotechnology*, **2021**, 16, 69-76	28.7	88
177	Non-local metasurfaces for spectrally decoupled wavefront manipulation and eye tracking. *Nature Nanotechnology*, **2021**, 16, 1224-1230	28.7	14
176	Nanoelectromechanical modulation of a strongly-coupled plasmonic dimer. *Nature Communications* , **2021**, 12, 48	17.4	13
175	Exciton resonance tuning of an atomically thin lens. *Nature Photonics*, **2020**, 14, 426-430	33.9	43
174	The road to atomically thin metasurface optics. *Nanophotonics*, **2020**, 10, 643-654	6.3	14
173	Metasurface-driven OLED displays beyond 10,000 pixels per inch. *Science*, **2020**, 370, 459-463	33.3	98
172	Direct laser writing of volumetric gradient index lenses and waveguides. *Light: Science and Applications*, **2020**, 9, 196	16.7	27
171	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Graphene-Silicon Photodetector. *ACS Nano*, **2020**,	16.7	30
170	High quality factor phase gradient metasurfaces. *Nature Nanotechnology*, **2020**, 15, 956-961	28.7	34
169	An Over-Coupled Phase-Change Metasurface for Efficient Reflection Phase Modulation. *Advanced Optical Materials*, **2020**, 8, 2000745	8.1	8
168	Dynamic Tuning of Gap Plasmon Resonances Using a Solid-State Electrochromic Device. *Nano Letters*, **2019**, 19, 7988-7995	11.5	32
167	Spin-Switched Three-Dimensional Full-Color Scenes Based on a Dielectric Meta-hologram. *ACS Photonics*, **2019**, 6, 2910-2916	6.3	23
166	Anisotropic Metasurfaces as Tunable SERS Substrates for 2D Materials. *ACS Photonics*, **2019**, 6, 1996-2004	6.3	10

165	Spatiotemporal light control with active metasurfaces. *Science*, **2019**, 364,	33.3	327
164	A Light-Field Metasurface for High-Resolution Single-Particle Tracking. *Nano Letters*, **2019**, 19, 2267-2271	11.5	24
163	Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum. *Physical Review Letters*, **2019**, 122, 117401	7.4	56
162	Temporal color mixing and dynamic beam shaping with silicon metasurfaces. *Science*, **2019**, 365, 257-260	33.3	93
161	Spatiotemporal light control with frequency-gradient metasurfaces. *Science*, **2019**, 365, 374-377	33.3	65
160	Antireflection High-Index Metasurfaces Combining Mie and Fabry-Pérot Resonances. *ACS Photonics*, **2019**, 6, 453-459	6.3	31
159	Spatially controlled doping of two-dimensional SnS through intercalation for electronics. *Nature Nanotechnology*, **2018**, 13, 294-299	28.7	169
158	Silicon Mie resonators for highly directional light emission from monolayer MoS2. *Nature Photonics*, **2018**, 12, 284-290	33.9	109
157	Tuning of Plasmons in Transparent Conductive Oxides by Carrier Accumulation. *ACS Photonics*, **2018**, 5, 1493-1498	6.3	28
156	Thermoplasmonic Ignition of Metal Nanoparticles. *Nano Letters*, **2018**, 18, 1699-1706	11.5	20
155	Rare-Earth Monopnictide Alloys for Tunable, Epitaxial, Designer Plasmonics. *ACS Photonics*, **2018**, 5, 3051-3056	6.3	4
154	Spectrally interleaved topologies using geometric phase metasurfaces. *Optics Express*, **2018**, 26, 31031-31038	3.8	5
153	Order and Disorder Embedded in a Spectrally Interleaved Metasurface. *ACS Photonics*, **2018**, 5, 4764-4768	6.3	2
152	Dynamic thermal emission control with InAs-based plasmonic metasurfaces. *Science Advances*, **2018**, 4, eaat3163	14.3	35
151	Broadband Antireflection Coatings Employing Multiresonant Dielectric Metasurfaces. *ACS Photonics*, **2018**, 5, 4456-4462	6.3	21
150	Epsilon-Near-Zero Si Slot-Waveguide Modulator. *ACS Photonics*, **2018**, 5, 4484-4490	6.3	31
149	Electrically Tunable, CMOS-Compatible Metamaterial Based on Semiconductor Nanopillars. *ACS Photonics*, **2018**, 5, 4702-4709	6.3	21
148	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. *Nature Nanotechnology*, **2018**, 13, 1143-1147	28.7	40

147	DNA-Assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond. *Nano Letters*, **2018**, 18, 7323-7329	11.5	46
146	Polarization-independent metasurface lens employing the Pancharatnam-Berry phase. *Optics Express*, **2018**, 26, 24835-24842	3.3	21
145	Metasurface Mirrors for External Control of Mie Resonances. *Nano Letters*, **2018**, 18, 3857-3864	11.5	12
144	Observing Plasmon Damping Due to Adhesion Layers in Gold Nanostructures Using Electron Energy Loss Spectroscopy. *ACS Photonics*, **2017**, 4, 268-274	6.3	29
143	Applying plasmonics to a sustainable future. *Science*, **2017**, 356, 908-909	33.3	68
142	Electrical tuning of a quantum plasmonic resonance. *Nature Nanotechnology*, **2017**, 12, 866-870	28.7	62
141	Dynamic Reflection Phase and Polarization Control in Metasurfaces. *Nano Letters*, **2017**, 17, 407-413	11.5	211
140	Free-Space Optical Beam Tapping with an All-Silica Metasurface. *ACS Photonics*, **2017**, 4, 2544-2549	6.3	15
139	Multifunctional interleaved geometric-phase dielectric metasurfaces. *Light: Science and Applications*, **2017**, 6, e17027	16.7	136
138	Purcell effect for active tuning of light scattering from semiconductor optical antennas. *Science*, **2017**, 358, 1407-1410	33.3	75
137	Active flat optics using a guided mode resonance. *Optics Letters*, **2017**, 42, 5-8	3	37
136	Photonic Multitasking Interleaved Si Nanoantenna Phased Array. *Nano Letters*, **2016**, 16, 7671-7676	11.5	79
135	Porous Silicon Gradient Refractive Index Micro-Optics. *Nano Letters*, **2016**, 16, 7402-7407	11.5	21
134	Fabry-Perot description for Mie resonances of rectangular dielectric nanowire optical resonators. *Optics Express*, **2016**, 24, 29760-29772	3.3	29
133	Superabsorbing, Artificial Metal Films Constructed from Semiconductor Nanoantennas. *Nano Letters*, **2016**, 16, 3801-8	11.5	26
132	Photonic spin-controlled multifunctional shared-aperture antenna array. *Science*, **2016**, 352, 1202-6	33.3	313
131	Backward phase-matching for nonlinear optical generation in negative-index materials. *Nature Materials*, **2015**, 14, 807-11	27	55
130	Gap Plasmon Resonance in a Suspended Plasmonic Nanowire Coupled to a Metallic Substrate. *Nano Letters*, **2015**, 15, 5609-16	11.5	22

129	Condition for unity absorption in an ultrathin and highly lossy film in a Gires-Tournois interferometer configuration. *Optics Letters*, **2015**, 40, 1960-3	3	30
128	Introductory lecture: nanoplasmonics. *Faraday Discussions*, **2015**, 178, 9-36	3.6	49
127	Quantum plasmonics, gain and spasers: general discussion. *Faraday Discussions*, **2015**, 178, 325-34	3.6	3
126	Plasmonic and new plasmonic materials: general discussion. *Faraday Discussions*, **2015**, 178, 123-49	3.6	13
125	Bandgap-customizable germanium using lithographically determined biaxial tensile strain for silicon-compatible optoelectronics. *Optics Express*, **2015**, 23, 16740-9	3.3	27
124	Monolithic integration of germanium-on-insulator p-i-n photodetector on silicon. *Optics Express*, **2015**, 23, 15816-23	3.3	20
123	Nanoscale Spatial Coherent Control over the Modal Excitation of a Coupled Plasmonic Resonator System. *Nano Letters*, **2015**, 15, 7666-70	11.5	31
122	Ultrafast Carrier Dynamics of a Photo-Excited Germanium Nanowire–Air Metamaterial. *ACS Photonics*, **2015**, 2, 1091-1098	6.3	10
121	Li Intercalation in MoS2: In Situ Observation of Its Dynamics and Tuning Optical and Electrical Properties. *Nano Letters*, **2015**, 15, 6777-84	11.5	236
120	Probing complex reflection coefficients in one-dimensional surface plasmon polariton waveguides and cavities using STEM EELS. *Nano Letters*, **2015**, 15, 120-6	11.5	25
119	Tuning Optical Absorption in an Ultrathin Lossy Film by Use of a Metallic Metamaterial Mirror. *IEEE Photonics Technology Letters*, **2015**, 27, 1617-1620	2.2	5
118	Polarization-sensitive broadband photodetector using a black phosphorus vertical p-n junction. *Nature Nanotechnology*, **2015**, 10, 707-13	28.7	785
117	Plasmon-induced hot carrier science and technology. *Nature Nanotechnology*, **2015**, 10, 25-34	28.7	1903
116	Lateral overgrowth of germanium for monolithic integration of germanium-on-insulator on silicon. *Journal of Crystal Growth*, **2015**, 416, 21-27	1.6	12
115	Shape-dependent light scattering properties of subwavelength silicon nanoblocks. *Nano Letters*, **2015**, 15, 1759-65	11.5	67
114	Electrically tunable coherent optical absorption in graphene with ion gel. *Nano Letters*, **2015**, 15, 1570-6	11.5	69
113	Significant enhancement of infrared photodetector sensitivity using a semiconducting single-walled carbon nanotube/C60 phototransistor. *Advanced Materials*, **2015**, 27, 759-65	24	116
112	Optical Fano resonance of an individual semiconductor nanostructure. *Nature Materials*, **2014**, 13, 471-5	27	173

111	Light management for photovoltaics using high-index nanostructures. *Nature Materials*, **2014**, 13, 451-60	27	670
110	Deep-subwavelength semiconductor nanowire surface plasmon polariton couplers. *Nano Letters*, **2014**, 14, 429-34	11.5	15
109	Direct bandgap germanium-on-silicon inferred from 57% <100> uniaxial tensile strain [Invited]. *Photonics Research*, **2014**, 2, A8	6	105
108	Transparent metallic fractal electrodes for semiconductor devices. *Nano Letters*, **2014**, 14, 5068-74	11.5	54
107	Ultrafast electron and phonon response of oriented and diameter-controlled germanium nanowire arrays. *Nano Letters*, **2014**, 14, 3427-31	11.5	17
106	Hot-electron photodetection with a plasmonic nanostripe antenna. *Nano Letters*, **2014**, 14, 1374-80	11.5	283
105	Dielectric gradient metasurface optical elements. *Science*, **2014**, 345, 298-302	33.3	1452
104	Electrically driven subwavelength optical nanocircuits. *Nature Photonics*, **2014**, 8, 244-249	33.9	189
103	Second-Harmonic Generation in GaAs Photonic Crystal Cavities in (111)B and (001) Crystal Orientations. *ACS Photonics*, **2014**, 1, 516-523	6.3	33
102	Omnidirectional Near-Unity Absorption in an Ultrathin Planar Semiconductor Layer on a Metal Substrate. *ACS Photonics*, **2014**, 1, 812-821	6.3	78
101	Light trapping for solar fuel generation with Mie resonances. *Nano Letters*, **2014**, 14, 1446-52	11.5	61
100	Metamaterial mirrors in optoelectronic devices. *Nature Nanotechnology*, **2014**, 9, 542-7	28.7	136
99	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. *ACS Photonics*, **2014**, 1, 235-240	6.3	71
98	Observation of improved minority carrier lifetimes in high-quality Ge-on-insulator using time-resolved photoluminescence. *Optics Letters*, **2014**, 39, 6205-8	3	23
97	An ab-initio coupled mode theory for near field radiative thermal transfer. *Optics Express*, **2014**, 22, 30032-46	3.5	12
96	Quantification and impact of nonparabolicity of the conduction band of indium tin oxide on its plasmonic properties. *Applied Physics Letters*, **2014**, 105, 181117	3.4	48
95	Self-assembly based plasmonic arrays tuned by atomic layer deposition for extreme visible light absorption. *Nano Letters*, **2013**, 13, 3352-7	11.5	104
94	Redesigning photodetector electrodes as an optical antenna. *Nano Letters*, **2013**, 13, 392-6	11.5	48

93	Broadband sharp 90-degree bends and T-splitters in plasmonic coaxial waveguides. *Nano Letters*, **2013**, 13, 4753-8	11.5	29
92	Compact aperiodic metallic groove arrays for unidirectional launching of surface plasmons. *Nano Letters*, **2013**, 13, 5420-4	11.5	60
91	Two-dimensional chalcogenide nanoplates as tunable metamaterials via chemical intercalation. *Nano Letters*, **2013**, 13, 5913-8	11.5	60
90	The planar parabolic optical antenna. *Nano Letters*, **2013**, 13, 188-93	11.5	30
89	Strain-induced pseudoheterostructure nanowires confining carriers at room temperature with nanoscale-tunable band profiles. *Nano Letters*, **2013**, 13, 3118-23	11.5	81
88	Electro-optical modulation of a silicon waveguide with an "epsilon-near-zero" material. *Optics Express*, **2013**, 21, 26387-97	3.3	127
87	Effects of surface oxide formation on germanium nanowire band-edge photoluminescence. *Applied Physics Letters*, **2013**, 102, 251122	3.4	18
86	Light emission from strained germanium. *Nature Photonics*, **2013**, 7, 162-163	33.9	8
85	Measurement of the polarization state of light using an integrated plasmonic polarimeter. *Nanophotonics*, **2012**, 1, 125-129	6.3	85
84	An electrically-driven GaAs nanowire surface plasmon source. *Nano Letters*, **2012**, 12, 4943-7	11.5	55
83	Thermal stability and surface passivation of Ge nanowires coated by epitaxial SiGe shells. *Nano Letters*, **2012**, 12, 1385-91	11.5	28
82	Electroluminescence from strained germanium membranes and implications for an efficient Si-compatible laser. *Applied Physics Letters*, **2012**, 100, 131112	3.4	69
81	Nanophotonic light trapping with patterned transparent conductive oxides. *Optics Express*, **2012**, 20, A385-94	3.3	48
80	A micromachining-based technology for enhancing germanium light emission via tensile strain. *Nature Photonics*, **2012**, 6, 398-405	33.9	168
79	An invisible metal–semiconductor photodetector. *Nature Photonics*, **2012**, 6, 380-385	33.9	180
78	Self-limited plasmonic welding of silver nanowire junctions. *Nature Materials*, **2012**, 11, 241-9	27	891
77	Hybrid silicon nanocone-polymer solar cells. *Nano Letters*, **2012**, 12, 2971-6	11.5	380
76	Routing and photodetection in subwavelength plasmonic slot waveguides. *Nanophotonics*, **2012**, 1, 9-16	6.3	32

75	Photocurrent mapping of near-field optical antenna resonances. *Nature Nanotechnology*, **2011**, 6, 588-93	28.7	66
74	Plasmon enhanced solar-to-fuel energy conversion. *Nano Letters*, **2011**, 11, 3440-6	11.5	428
73	Multiple-wavelength focusing of surface plasmons with a nonperiodic nanoslit coupler. *Nano Letters*, **2011**, 11, 2693-8	11.5	110
72	Imaging the hidden modes of ultrathin plasmonic strip antennas by cathodoluminescence. *Nano Letters*, **2011**, 11, 4265-9	11.5	44
71	Power flow from a dipole emitter near an optical antenna. *Optics Express*, **2011**, 19, 19084-92	3.3	23
70	Strained germanium thin film membrane on silicon substrate for optoelectronics. *Optics Express*, **2011**, 19, 25866-72	3.3	89
69	Tensile-strained germanium-on-insulator substrate fabrication for silicon-compatible optoelectronics. *Optical Materials Express*, **2011**, 1, 1121	2.6	29
68	Electrically controlled nonlinear generation of light with plasmonics. *Science*, **2011**, 333, 1720-3	33.3	194
67	Plasmonic Dye-Sensitized Solar Cells. *Advanced Energy Materials*, **2011**, 1, 52-57	21.8	206
66	Engineering light absorption in single-nanowire solar cells with metal nanoparticles. *New Journal of Physics*, **2011**, 13, 123026	2.9	23
65	Optical coupling of deep-subwavelength semiconductor nanowires. *Nano Letters*, **2011**, 11, 1463-8	11.5	60
64	Atomic layer deposition of lead sulfide quantum dots on nanowire surfaces. *Nano Letters*, **2011**, 11, 934-40	11.5	73
63	Sombrero-shaped plasmonic nanoparticles with molecular-level sensitivity and multifunctionality. *ACS Nano*, **2011**, 5, 6449-57	16.7	30
62	Plasmonics for extreme light concentration and manipulation. *Nature Materials*, **2010**, 9, 193-204	27	3116
61	Spatially resolved Raman spectroscopy on indium-catalyzed core-shell germanium nanowires: size effects. *Nanotechnology*, **2010**, 21, 105703	3.4	9
60	High excitation transfer efficiency from energy relay dyes in dye-sensitized solar cells. *Nano Letters*, **2010**, 10, 3077-83	11.5	91
59	Resonant germanium nanoantenna photodetectors. *Nano Letters*, **2010**, 10, 1229-33	11.5	244
58	Semiconductor nanowire optical antenna solar absorbers. *Nano Letters*, **2010**, 10, 439-45	11.5	438

57	Strong Modification of Quantum Dot Spontaneous Emission via Gap Plasmon Coupling in Metal Nanoslits *Journal of Physical Chemistry C*, **2010**, 114, 7269-7273	3.8	42
56	Phase-coupled plasmon-induced transparency. *Physical Review Letters*, **2010**, 104, 243902	7.4	346
55	Applied physics. The case for plasmonics. *Science*, **2010**, 328, 440-1	33.3	419
54	Tuning the color of silicon nanostructures. *Nano Letters*, **2010**, 10, 2649-54	11.5	244
53	Elements for plasmonic nanocircuits with three-dimensional slot waveguides. *Advanced Materials*, **2010**, 22, 5120-4	24	91
52	Synthesis parameter space of bismuth catalyzed germanium nanowires. *Applied Physics Letters*, **2009**, 94, 163101	3.4	25
51	Mid-IR plasmonic antennas on silicon-rich oxinitride absorbing substrates: Nonlinear scaling of resonance wavelengths with antenna length. *Applied Physics Letters*, **2009**, 95, 253109	3.4	4
50	Energy transfer in nanowire solar cells with photon-harvesting shells. *Journal of Applied Physics*, **2009**, 105, 124509	2.5	27
49	Single crystalline and core-shell indium-catalyzed germanium nanowires-a systematic thermal CVD growth study. *Nanotechnology*, **2009**, 20, 245608	3.4	24
48	Engineering light absorption in semiconductor nanowire devices. *Nature Materials*, **2009**, 8, 643-7	27	714
47	Optical antenna thermal emitters. *Nature Photonics*, **2009**, 3, 658-661	33.9	264
46	Extraordinary optical absorption through subwavelength slits. *Optics Letters*, **2009**, 34, 686-8	3	170
45	Near-infrared free-carrier absorption in silicon nanocrystals. *Optics Letters*, **2009**, 34, 3397-9	3	19
44	Planar Far-Field Lensing with Plasmonic Nano-Slit Arrays. *Optics and Photonics News*, **2009**, 20, 24	1.9	2
43	Plasmon-enhanced emission from optically-doped MOS light sources. *Optics Express*, **2009**, 17, 185-92	3.3	23
42	Broadband enhancement of light emission in silicon slot waveguides. *Optics Express*, **2009**, 17, 7479-90	3.3	67
41	Side-coupled cavity model for surface plasmon-polariton transmission across a groove. *Optics Express*, **2009**, 17, 17837-48	3.3	23
40	General properties of dielectric optical antennas. *Optics Express*, **2009**, 17, 24084-95	3.3	82

39	Solving dielectric and plasmonic waveguide dispersion relations on a pocket calculator. *Optics Express*, **2009**, 17, 24112-29	3.3	80
38	Metal-dielectric-metal plasmonic waveguide devices for manipulating light at the nanoscale. *Chinese Optics Letters*, **2009**, 7, 302-308	2.2	61
37	Compact, high-speed and power-efficient electrooptic plasmonic modulators. *Nano Letters*, **2009**, 9, 4403-11	11.5	268
36	Planar lenses based on nanoscale slit arrays in a metallic film. *Nano Letters*, **2009**, 9, 235-8	11.5	375
35	Design of Plasmonic Thin-Film Solar Cells with Broadband Absorption Enhancements. *Advanced Materials*, **2009**, 21, 3504-3509	24	679
34	A nonvolatile plasmonic switch employing photochromic molecules. *Nano Letters*, **2008**, 8, 1506-10	11.5	184
33	Spectral properties of plasmonic resonator antennas. *Optics Express*, **2008**, 16, 16529-37	3.3	112
32	Quantification of free-carrier absorption in silicon nanocrystals with an optical microcavity. *Nano Letters*, **2008**, 8, 3787-93	11.5	58
31	Plasmon-assisted local temperature control to pattern individual semiconductor nanowires and carbon nanotubes. *Nano Letters*, **2007**, 7, 3523-7	11.5	221
30	Surface plasmon polariton analogue to Young□ double-slit experiment. *Nature Nanotechnology*, **2007**, 2, 426-9	28.7	131
29	Dielectric metamaterials based on electric and magnetic resonances of silicon carbide particles. *Physical Review Letters*, **2007**, 99, 107401	7.4	264
28	Plasmonics □the missing link between nanoelectronics and microphotonics. *Applied Physics A: Materials Science and Processing*, **2007**, 89, 221-223	2.6	43
27	Metal□Dielectric Slot-Waveguide Structures for the Propagation of Surface Plasmon Polaritons at 1.55 $mu{hbox {m}}$. *IEEE Journal of Quantum Electronics*, **2007**, 43, 479-485	2	78
26	Cavity Q Measurements of Silica Microspheres with Nanocluster Silicon Active Layer. *IEEE Journal of Selected Topics in Quantum Electronics*, **2006**, 12, 1388-1393	3.8	8
25	Silicon-Nanocrystal-Coated Silica Microsphere Thermooptical Switch. *IEEE Journal of Selected Topics in Quantum Electronics*, **2006**, 12, 1476-1479	3.8	14
24	Probing molecular junctions using surface plasmon resonance spectroscopy. *Nano Letters*, **2006**, 6, 2797-803	11.5	21
23	Design of midinfrared photodetectors enhanced by surface plasmons on grating structures. *Applied Physics Letters*, **2006**, 89, 151116	3.4	119
22	Plasmon-assisted chemical vapor deposition. *Nano Letters*, **2006**, 6, 2592-7	11.5	135

21	Tunable light emission from quantum-confined excitons in TiSi2-catalyzed silicon nanowires. *Nano Letters*, **2006**, 6, 2140-4	11.5	98
20	Dielectric waveguide model for guided surface polaritons. *Optics Letters*, **2005**, 30, 1473-5	3	72
19	Design of a silicon-based field-effect electro-optic modulator with enhanced light-charge interaction. *Optics Letters*, **2005**, 30, 2149-51	3	11
18	Microring and microdisk optical resonators using silicon nanocrystals and erbium prepared using silicon technology. *Optical Materials*, **2005**, 27, 804-811	3.3	19
17	Omnidirectional resonance in a metal□dielectric□metal geometry. *Applied Physics Letters*, **2004**, 84, 4421-4423	3.4	91
16	Electromagnetic energy transport along Yagi arrays. *Materials Science and Engineering C*, **2002**, 19, 291-294	3.3	11
15	Models for quantitative charge imaging by atomic force microscopy. *Journal of Applied Physics*, **2001**, 90, 2764-2772	2.5	18
14	Charging of single Si nanocrystals by atomic force microscopy. *Applied Physics Letters*, **2001**, 78, 3133-3135	3.4	45
13	Electromagnetic energy transport along arrays of closely spaced metal rods as an analogue to plasmonic devices. *Applied Physics Letters*, **2001**, 78, 16-18	3.4	91
12	Localized charge injection in SiO2 films containing silicon nanocrystals. *Applied Physics Letters*, **2001**, 79, 791-793	3.4	59
11	Synthesis and characterization of aerosol silicon nanocrystal nonvolatile floating-gate memory devices. *Applied Physics Letters*, **2001**, 79, 433-435	3.4	148
10	Colloidal Ellipsoids with Continuously Variable Shape. *Advanced Materials*, **2000**, 12, 1511-1514	24	114
9	Strong exciton-erbium coupling in Si nanocrystal-doped SiO2. *Applied Physics Letters*, **2000**, 76, 2325-2327	3.4	243
8	Electromagnetic energy transfer and switching in nanoparticle chain arrays below the diffraction limit. *Physical Review B*, **2000**, 62, R16356-R16359	3.3	632
7	Origin of MeV ion irradiation-induced stress changes in SiO2. *Journal of Applied Physics*, **2000**, 88, 59-64	2.5	65
6	Size-dependent electron-hole exchange interaction in Si nanocrystals. *Applied Physics Letters*, **2000**, 76, 351-353	3.4	185
5	Depth distribution of luminescent Si nanocrystals in Si implanted SiO2 films on Si. *Journal of Applied Physics*, **1999**, 86, 759-763	2.5	52
4	Tuning the emission wavelength of Si nanocrystals in SiO2 by oxidation. *Applied Physics Letters*, **1998**, 72, 2577-2579	3.4	196

3	Temperature dependence of MeV heavy ion irradiation-induced viscous flow in SiO2. *Applied Physics Letters*, **1997**, 71, 1628-1630	3.4	63
2	Defect-related versus excitonic visible light emission from ion beam synthesized Si nanocrystals in SiO2. *Applied Physics Letters*, **1996**, 69, 2033-2035	3.4	354
1	The role of quantum-confined excitons vs defects in the visible luminescence of SiO2 films containing Ge nanocrystals. *Applied Physics Letters*, **1996**, 68, 2511-2513	3.4	192