Mark L. Brongersma

List of Publications by Year
in descending order

191 papers	33,939 citations	5558 82 h-index	3476 182 g-index
193 all docs	193 docs citations	193 times ranked	30019 citing authors

#	Article	IF	Citations
1	All-solid-state spatial light modulator with independent phase and amplitude control for three-dimensional LiDAR applications. Nature Nanotechnology, 2021, 16, 69-76.	15.6	232
2	Mark Stockman: Evangelist for Plasmonics. ACS Photonics, 2021, 8, 683-698.	3.2	2
3	Electrical tuning of phase-change antennas and metasurfaces. Nature Nanotechnology, 2021, 16, 667-672.	15.6	196
4	Plasmon Launching and Scattering by Silicon Nanoparticles. ACS Photonics, 2021, 8, 1582-1591.	3.2	15
5	Self-Assembled Nanoâ€“Lotus Pod Metasurface for Light Trapping. ACS Photonics, 2021, 8, 1616-1622.	3.2	8
6	Non-local metasurfaces for spectrally decoupled wavefront manipulation and eye tracking. Nature Nanotechnology, 2021, 16, 1224-1230.	15.6	52
7	Nanoelectromechanical modulation of a strongly-coupled plasmonic dimer. Nature Communications, 2021, 12, 48.	5.8	19
8	Photochemistry democratizes 3D nanoprinting. Nature Photonics, 2021, 15, 871-873.	15.6	2
9	High-specific-power flexible transition metal dichalcogenide solar cells. Nature Communications, 2021, 12, 7034.	5.8	84
10	Metasurface-driven OLED displays beyond 10,000 pixels per inch. Science, 2020, 370, 459-463.	6.0	212
11	Direct laser writing of volumetric gradient index lenses and waveguides. Light: Science and Applications, 2020, 9, 196.	7.7	66
12	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Grapheneâ€“Silicon Photodetector. ACS Nano, 2020, 14, 16634-16642.	7.3	94
13	High quality factor phase gradient metasurfaces. Nature Nanotechnology, 2020, 15, 956-961.	15.6	107
14	An Overâ€Coupled Phaseâ€Change Metasurface for Efficient Reflection Phase Modulation. Advanced Optical Materials, 2020, 8, 2000745.	3.6	16
15	Exciton resonance tuning of an atomically thin lens. Nature Photonics, 2020, 14, 426-430.	15.6	80
16	The road to atomically thin metasurface optics. Nanophotonics, 2020, 10, 643-654.	2.9	30
17	Temporal color mixing and dynamic beam shaping with silicon metasurfaces. Science, 2019, 365, 257-260.	6.0	149
18	Spatiotemporal light control with frequency-gradient metasurfaces. Science, 2019, 365, 374-377.	6.0	117

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19	Dynamic Tuning of Gap Plasmon Resonances Using a Solid-State Electrochromic Device. Nano Letters, 2019, 19, 7988-7995.	4.5	65
20	Spin-Switched Three-Dimensional Full-Color Scenes Based on a Dielectric Meta-hologram. ACS Photonics, 2019, 6, 2910-2916.	3.2	39
21	Anisotropic Metasurfaces as Tunable SERS Substrates for 2D Materials. ACS Photonics, 2019, 6, 1996-2004.	3.2	15
22	Spatiotemporal light control with active metasurfaces. Science, 2019, 364, .	6.0	581
23	A Light-Field Metasurface for High-Resolution Single-Particle Tracking. Nano Letters, 2019, 19, 2267-2271.	4.5	41
24	Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum. Physical Review Letters, 2019, 122, 117401.	2.9	87
25	Antireflection High-Index Metasurfaces Combining Mie and Fabry-PÃ©rot Resonances. ACS Photonics, 2019, 6, 453-459.	3.2	51
26	Spatially controlled doping of two-dimensional SnS2 through intercalation for electronics. Nature Nanotechnology, 2018, 13, 294-299.	15.6	269
27	Silicon Mie resonators for highly directional light emission from monolayer MoS2. Nature Photonics, 2018, 12, 284-290.	15.6	160
28	Tuning of Plasmons in Transparent Conductive Oxides by Carrier Accumulation. ACS Photonics, 2018, 5, 1493-1498.	3.2	37
29	Thermoplasmonic Ignition of Metal Nanoparticles. Nano Letters, 2018, 18, 1699-1706.	4.5	28
30	Order and Disorder Embedded in a Spectrally Interleaved Metasurface. ACS Photonics, 2018, 5, 4764-4768.	3.2	5
31	Dynamic thermal emission control with InAs-based plasmonic metasurfaces. Science Advances, 2018, 4, eaat3163.	4.7	74
32	Broadband Antireflection Coatings Employing Multiresonant Dielectric Metasurfaces. ACS Photonics, 2018, 5, 4456-4462.	3.2	39
33	Epsilon-Near-Zero Si Slot-Waveguide Modulator. ACS Photonics, 2018, 5, 4484-4490.	3.2	59
34	Electrically Tunable, CMOS-Compatible Metamaterial Based on Semiconductor Nanopillars. ACS Photonics, 2018, 5, 4702-4709.	3.2	29
35	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. Nature Nanotechnology, 2018, 13, 1143-1147.	15.6	66
36	DNA-Assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond. Nano Letters, 2018, 18, 7323-7329.	4.5	58

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37	Polarization-independent metasurface lens employing the Pancharatnam-Berry phase. Optics Express, 2018, 26, 24835.	1.7	31
38	Metasurface Mirrors for External Control of Mie Resonances. Nano Letters, 2018, 18, 3857-3864.	4.5	13
39	Rare-Earth Monopnictide Alloys for Tunable, Epitaxial, Designer Plasmonics. ACS Photonics, 2018, 5, 3051-3056.	3.2	9
40	Spectrally interleaved topologies using geometric phase metasurfaces. Optics Express, 2018, 26, 31031.	1.7	9
41	Observing Plasmon Damping Due to Adhesion Layers in Gold Nanostructures Using Electron Energy Loss Spectroscopy. ACS Photonics, 2017, 4, 268-274.	3.2	40
42	Applying plasmonics to a sustainable future. Science, 2017, 356, 908-909.	6.0	85
43	Electrical tuning of a quantum plasmonic resonance. Nature Nanotechnology, 2017, 12, 866-870.	15.6	72
44	Dynamic Reflection Phase and Polarization Control in Metasurfaces. Nano Letters, 2017, 17, 407-413.	4.5	293
45	Free-Space Optical Beam Tapping with an All-Silica Metasurface. ACS Photonics, 2017, 4, 2544-2549.	3.2	20
46	Multifunctional interleaved geometric-phase dielectric metasurfaces. Light: Science and Applications, 2017, 6, e17027-e17027.	7.7	174
47	Purcell effect for active tuning of light scattering from semiconductor optical antennas. Science, 2017, 358, 1407-1410.	6.0	97
48	Active flat optics using a guided mode resonance. Optics Letters, 2017, 42, 5.	1.7	54
49	Fabry-Perot description for Mie resonances of rectangular dielectric nanowire optical resonators. Optics Express, 2016, 24, 29760.	1.7	35
50	Superabsorbing, Artificial Metal Films Constructed from Semiconductor Nanoantennas. Nano Letters, 2016, 16, 3801-3808.	4.5	35
51	Photonic spin-controlled multifunctional shared-aperture antenna array. Science, 2016, 352, 1202-1206.	6.0	408
52	Photonic Multitasking Interleaved Si Nanoantenna Phased Array. Nano Letters, 2016, 16, 7671-7676.	4.5	113
53	Porous Silicon Gradient Refractive Index Micro-Optics. Nano Letters, 2016, 16, 7402-7407.	4.5	30
54	Tuning Optical Absorption in an Ultrathin Lossy Film by Use of a Metallic Metamaterial Mirror. IEEE Photonics Technology Letters, 2015, 27, 1617-1620.	1.3	6

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55	Polarization-sensitive broadband photodetector using a black phosphorus vertical pâ€“n junction. Nature Nanotechnology, 2015, 10, 707-713.	15.6	1,007
56	Plasmon-induced hot carrier science and technology. Nature Nanotechnology, 2015, 10, 25-34.	15.6	2,564
57	Lateral overgrowth of germanium for monolithic integration of germanium-on-insulator on silicon. Journal of Crystal Growth, 2015, 416, 21-27.	0.7	18
58	Shape-Dependent Light Scattering Properties of Subwavelength Silicon Nanoblocks. Nano Letters, 2015, 15, 1759-1765.	4.5	78
59	Electrically Tunable Coherent Optical Absorption in Graphene with Ion Gel. Nano Letters, 2015, 15, 1570-1576.	4.5	85
60	Significant Enhancement of Infrared Photodetector Sensitivity Using a Semiconducting Singleâ€Walled Carbon Nanotube/C₆₀ Phototransistor. Advanced Materials, 2015, 27, 759-765.	11.1	133
61	Backward phase-matching for nonlinear optical generation in negative-index materials. Nature Materials, 2015, 14, 807-811.	13.3	73
62	Gap Plasmon Resonance in a Suspended Plasmonic Nanowire Coupled to a Metallic Substrate. Nano Letters, 2015, 15, 5609-5616.	4.5	31
63	Condition for unity absorption in an ultrathin and highly lossy film in a Giresâ€“Tournois interferometer configuration. Optics Letters, 2015, 40, 1960.	1.7	36
64	Introductory lecture: nanoplasmonics. Faraday Discussions, 2015, 178, 9-36.	1.6	56
65	Quantum plasmonics, gain and spasers: general discussion. Faraday Discussions, 2015, 178, 325-334.	1.6	4
66	Plasmonic and new plasmonic materials: general discussion. Faraday Discussions, 2015, 178, 123-149.	1.6	16
67	Bandgap-customizable germanium using lithographically determined biaxial tensile strain for silicon-compatible optoelectronics. Optics Express, 2015, 23, 16740.	1.7	28
68	Monolithic integration of germanium-on-insulator p-i-n photodetector on silicon. Optics Express, 2015, 23, 15816.	1.7	30
69	Nanoscale Spatial Coherent Control over the Modal Excitation of a Coupled Plasmonic Resonator System. Nano Letters, 2015, 15, 7666-7670.	4.5	37
70	Ultrafast Carrier Dynamics of a Photo-Excited Germanium Nanowireâ€“Air Metamaterial. ACS Photonics, 2015, 2, 1091-1098.	3.2	10
71	Li Intercalation in MoS₂: In Situ Observation of Its Dynamics and Tuning Optical and Electrical Properties. Nano Letters, 2015, 15, 6777-6784.	4.5	312
72	Probing Complex Reflection Coefficients in One-Dimensional Surface Plasmon Polariton Waveguides and Cavities Using STEM EELS. Nano Letters, 2015, 15, 120-126.	4.5	30

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73	Observation of improved minority carrier lifetimes in high-quality Ge-on-insulator using time-resolved photoluminescence. Optics Letters, 2014, 39, 6205.	1.7	34
74	An ab-initio coupled mode theory for near field radiative thermal transfer. Optics Express, 2014, 22, 30032.	1.7	12
75	Quantification and impact of nonparabolicity of the conduction band of indium tin oxide on its plasmonic properties. Applied Physics Letters, 2014, 105, 181117.	1.5	69
76	Optical Fano resonance of an individual semiconductor nanostructure. Nature Materials, 2014, 13, 471-475.	13.3	205
77	Light management for photovoltaics using high-index nanostructures. Nature Materials, 2014, 13, 451-460.	13.3	796
78	Deep-Subwavelength Semiconductor Nanowire Surface Plasmon Polariton Couplers. Nano Letters, 2014, 14, 429-434.	4.5	17
79	Direct bandgap germanium-on-silicon inferred from 57% âŒ©100âŒª uniaxial tensile strain [Invited]. Photonics Research, 2014, 2, A8.	3.4	139
80	Transparent Metallic Fractal Electrodes for Semiconductor Devices. Nano Letters, 2014, 14, 5068-5074.	4.5	66
81	Ultrafast Electron and Phonon Response of Oriented and Diameter-Controlled Germanium Nanowire Arrays. Nano Letters, 2014, 14, 3427-3431.	4.5	17
82	Hot-Electron Photodetection with a Plasmonic Nanostripe Antenna. Nano Letters, 2014, 14, 1374-1380.	4.5	343
83	Dielectric gradient metasurface optical elements. Science, 2014, 345, 298-302.	6.0	1,866
84	Electrically driven subwavelength optical nanocircuits. Nature Photonics, 2014, 8, 244-249.	15.6	219
85	Second-Harmonic Generation in GaAs Photonic Crystal Cavities in (111)B and (001) Crystal Orientations. ACS Photonics, 2014, 1, 516-523.	3.2	36
86	Omnidirectional Near-Unity Absorption in an Ultrathin Planar Semiconductor Layer on a Metal Substrate. ACS Photonics, 2014, 1, 812-821.	3.2	88
87	Light Trapping for Solar Fuel Generation with Mie Resonances. Nano Letters, 2014, 14, 1446-1452.	4.5	75
88	Metamaterial mirrors in optoelectronic devices. Nature Nanotechnology, 2014, 9, 542-547.	15.6	158
89	Nearly Total Solar Absorption in Ultrathin Nanostructured Iron Oxide for Efficient Photoelectrochemical Water Splitting. ACS Photonics, 2014, 1, 235-240.	3.2	76
90	Self-Assembly Based Plasmonic Arrays Tuned by Atomic Layer Deposition for Extreme Visible Light Absorption. Nano Letters, 2013, 13, 3352-3357.	4.5	118

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91	Redesigning Photodetector Electrodes as an Optical Antenna. Nano Letters, 2013, 13, 392-396.	4.5	52
92	Broadband Sharp 90-degree Bends and T-Splitters in Plasmonic Coaxial Waveguides. Nano Letters, 2013, 13, 4753-4758.	4.5	42
93	Compact Aperiodic Metallic Groove Arrays for Unidirectional Launching of Surface Plasmons. Nano Letters, 2013, 13, 5420-5424.	4.5	69
94	Two-Dimensional Chalcogenide Nanoplates as Tunable Metamaterials via Chemical Intercalation. Nano Letters, 2013, 13, 5913-5918.	4.5	64
95	The Planar Parabolic Optical Antenna. Nano Letters, 2013, 13, 188-193.	4.5	33
96	Harvest season for hot electrons. Nature Nanotechnology, 2013, 8, 229-230.	15.6	68
97	Strain-Induced Pseudoheterostructure Nanowires Confining Carriers at Room Temperature with Nanoscale-Tunable Band Profiles. Nano Letters, 2013, 13, 3118-3123.	4.5	107
98	Electro-optical modulation of a silicon waveguide with an â€œepsilon-near-zeroâ€•material. Optics Express, 2013, 21, 26387.	1.7	151
99	Effects of surface oxide formation on germanium nanowire band-edge photoluminescence. Applied Physics Letters, 2013, 102, .	1.5	19
100	Light emission from strained germanium. Nature Photonics, 2013, 7, 162-163.	15.6	8
101	Plasmonics in optoelectronic devices. Nanotechnology, 2012, 23, 440201-440201.	1.3	10
102	Routing and photodetection in subwavelength plasmonic slot waveguides. Nanophotonics, 2012, 1, 9-16.	2.9	40
103	Measurement of the polarization state of light using an integrated plasmonic polarimeter. Nanophotonics, 2012, 1, 125-129.	2.9	126
104	An Electrically-Driven GaAs Nanowire Surface Plasmon Source. Nano Letters, 2012, 12, 4943-4947.	4.5	57
105	Thermal Stability and Surface Passivation of Ge Nanowires Coated by Epitaxial SiGe Shells. Nano Letters, 2012, 12, 1385-1391.	4.5	29
106	Electroluminescence from strained germanium membranes and implications for an efficient Si-compatible laser. Applied Physics Letters, 2012, 100, .	1.5	79
107	Nanophotonic light trapping with patterned transparent conductive oxides. Optics Express, 2012, 20, A385.	1.7	53
108	A micromachining-based technology for enhancing germanium light emission via tensile strain. Nature Photonics, 2012, 6, 398-405.	15.6	190

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109	An invisible metalâ€“semiconductor photodetector. Nature Photonics, 2012, 6, 380-385.	15.6	223
110	Self-limited plasmonic welding of silver nanowireÂjunctions. Nature Materials, 2012, 11, 241-249.	13.3	1,002
111	Hybrid Silicon Nanoconeâ€“Polymer Solar Cells. Nano Letters, 2012, 12, 2971-2976.	4.5	402
112	Engineering light absorption in single-nanowire solar cells with metal nanoparticles. New Journal of Physics, 2011, 13, 123026.	1.2	24
113	Optical Coupling of Deep-Subwavelength Semiconductor Nanowires. Nano Letters, 2011, 11, 1463-1468.	4.5	70
114	Atomic Layer Deposition of Lead Sulfide Quantum Dots on Nanowire Surfaces. Nano Letters, 2011, 11, 934-940.	4.5	84
115	Sombrero-Shaped Plasmonic Nanoparticles with Molecular-Level Sensitivity and Multifunctionality. ACS Nano, 2011, 5, 6449-6457.	7.3	32
116	Photocurrent mapping of near-field optical antenna resonances. Nature Nanotechnology, 2011, 6, 588-593.	15.6	72
117	Plasmon Enhanced Solar-to-Fuel Energy Conversion. Nano Letters, 2011, 11, 3440-3446.	4.5	456
118	Multiple-Wavelength Focusing of Surface Plasmons with a Nonperiodic Nanoslit Coupler. Nano Letters, 2011, 11, 2693-2698.	4.5	133
119	Imaging the Hidden Modes of Ultrathin Plasmonic Strip Antennas by Cathodoluminescence. Nano Letters, 2011, 11, 4265-4269.	4.5	49
120	Power flow from a dipole emitter near an optical antenna. Optics Express, 2011, 19, 19084.	1.7	27
121	Strained germanium thin film membrane on silicon substrate for optoelectronics. Optics Express, 2011, 19, 25866.	1.7	114
122	Tensile-strained germanium-on-insulator substrate fabrication for silicon-compatible optoelectronics. Optical Materials Express, 2011, 1, 1121.	1.6	37
123	Electrically Controlled Nonlinear Generation of Light with Plasmonics. Science, 2011, 333, 1720-1723.	6.0	240
124	Plasmonic Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2011, 1, 52-57.	10.2	217
125	The Case for Plasmonics. Science, 2010, 328, 440-441.	6.0	524
126	Tuning the Color of Silicon Nanostructures. Nano Letters, 2010, 10, 2649-2654.	4.5	291

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127	Elements for Plasmonic Nanocircuits with Threeâ€Dimensional Slot Waveguides. Advanced Materials, 2010, 22, 5120-5124.	11.1	109
128	Electrifying plasmonics on silicon. Nature Materials, 2010, 9, 3-4.	13.3	73
129	Plasmonics for extreme light concentration and manipulation. Nature Materials, 2010, 9, 193-204.	13.3	3,773
130	Plasmonics gets transformed. Nature Nanotechnology, 2010, 5, 485-486.	15.6	12
131	Spatially resolved Raman spectroscopy on indium-catalyzed coreâ€“shell germanium nanowires: size effects. Nanotechnology, 2010, 21, 105703.	1.3	13
132	High Excitation Transfer Efficiency from Energy Relay Dyes in Dye-Sensitized Solar Cells. Nano Letters, 2010, 10, 3077-3083.	4.5	97
133	Resonant Germanium Nanoantenna Photodetectors. Nano Letters, 2010, 10, 1229-1233.	4.5	277
134	Semiconductor Nanowire Optical Antenna Solar Absorbers. Nano Letters, 2010, 10, 439-445.	4.5	486
135	Strong Modification of Quantum Dot Spontaneous Emission via Gap Plasmon Coupling in Metal Nanoslits. Journal of Physical Chemistry C, 2010, 114, 7269-7273.	1.5	49
136	Phase-Coupled Plasmon-Induced Transparency. Physical Review Letters, 2010, 104, 243902.	2.9	390
137	Synthesis parameter space of bismuth catalyzed germanium nanowires. Applied Physics Letters, 2009, 94, .	1.5	25
138	Mid-IR plasmonic antennas on silicon-rich oxinitride absorbing substrates: Nonlinear scaling of resonance wavelengths with antenna length. Applied Physics Letters, 2009, 95, .	1.5	5
139	Energy transfer in nanowire solar cells with photon-harvesting shells. Journal of Applied Physics, 2009, 105, 124509.	1.1	27
140	Single crystalline and coreâ€“shell indium-catalyzed germanium nanowiresâ€”a systematic thermal CVD growth study. Nanotechnology, 2009, 20, 245608.	1.3	25
141	Engineering light absorption in semiconductor nanowire devices. Nature Materials, 2009, 8, 643-647.	13.3	802
142	Ultrafast developments. Nature Photonics, 2009, 3, 12-13.	15.6	52
143	Optical antenna thermal emitters. Nature Photonics, 2009, 3, 658-661.	15.6	319
144	Extraordinary optical absorption through subwavelength slits. Optics Letters, 2009, 34, 686.	1.7	211

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145	Near-infrared free-carrier absorption in silicon nanocrystals. Optics Letters, 2009, 34, 3397.	1.7	22
146	Planar Far-Field Lensing with Plasmonic Nano-Slit Arrays. Optics and Photonics News, 2009, 20, 24.	0.4	2
147	Plasmon-enhanced emission from optically-doped MOS light sources. Optics Express, 2009, 17, 185.	1.7	29
148	Broadband enhancement of light emission in silicon slot waveguides. Optics Express, 2009, 17, 7479.	1.7	83
149	Side-coupled cavity model for surface plasmon-polariton transmission across a groove. Optics Express, 2009, 17, 17837.	1.7	25
150	General properties of dielectric optical antennas. Optics Express, 2009, 17, 24084.	1.7	94
151	Solving dielectric and plasmonic waveguide dispersion relations on a pocket calculator. Optics Express, 2009, 17, 24112.	1.7	103
152	Metal-dielectric-metal plasmonic waveguide devices for manipulating light at the nanoscale. Chinese Optics Letters, 2009, 7, 302-308.	1.3	79
153	Compact, High-Speed and Power-Efficient Electrooptic Plasmonic Modulators. Nano Letters, 2009, 9, 4403-4411.	4.5	323
154	Planar Lenses Based on Nanoscale Slit Arrays in a Metallic Film. Nano Letters, 2009, 9, 235-238.	4.5	463
155	Design of Plasmonic Thinâ€Film Solar Cells with Broadband Absorption Enhancements. Advanced Materials, 2009, 21, 3504-3509.	11.1	761
156	Engineering optical nanoantennas. Nature Photonics, 2008, 2, 270-272.	15.6	93
157	A Nonvolatile Plasmonic Switch Employing Photochromic Molecules. Nano Letters, 2008, 8, 1506-1510.	4.5	220
158	Spectral properties of plasmonic resonator antennas. Optics Express, 2008, 16, 16529.	1.7	132
159	Quantification of Free-Carrier Absorption in Silicon Nanocrystals with an Optical Microcavity. Nano Letters, 2008, 8, 3787-3793.	4.5	72
160	Metalâ€“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.	1.0	102
161	Plasmon-Assisted Local Temperature Control to Pattern Individual Semiconductor Nanowires and Carbon Nanotubes. Nano Letters, 2007, 7, 3523-3527.	4.5	248
162	Surface plasmon polariton analogue to Young's double-slit experiment. Nature Nanotechnology, 2007, 2, 426-429.	15.6	145

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163	Dielectric Metamaterials Based on Electric and Magnetic Resonances of Silicon Carbide Particles. Physical Review Letters, 2007, 99, 107401.	2.9	298
164	Plasmonics â€“ the missing link between nanoelectronics and microphotonics. Applied Physics A: Materials Science and Processing, 2007, 89, 221-223.	1.1	53
165	Cavity Q Measurements of Silica Microspheres with Nanocluster Silicon Active Layer. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1388-1393.	1.9	8
166	Silicon-Nanocrystal-Coated Silica Microsphere Thermooptical Switch. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1476-1479.	1.9	18
167	Probing Molecular Junctions Using Surface Plasmon Resonance Spectroscopy. Nano Letters, 2006, 6, 2797-2803.	4.5	22
168	Design of midinfrared photodetectors enhanced by surface plasmons on grating structures. Applied Physics Letters, 2006, 89, 151116.	1.5	144
169	Plasmon-Assisted Chemical Vapor Deposition. Nano Letters, 2006, 6, 2592-2597.	4.5	153
170	Tunable Light Emission from Quantum-Confined Excitons in TiSi2-Catalyzed Silicon Nanowires. Nano Letters, 2006, 6, 2140-2144.	4.5	106
171	Microring and microdisk optical resonators using silicon nanocrystals and erbium prepared using silicon technology. Optical Materials, 2005, 27, 804-811.	1.7	21
172	Dielectric waveguide model for guided surface polaritons. Optics Letters, 2005, 30, 1473.	1.7	90
173	Design of a silicon-based field-effect electro-optic modulator with enhanced lightâ€“charge interaction. Optics Letters, 2005, 30, 2149.	1.7	13
174	Omnidirectional resonance in a metalâ€“dielectricâ€“metal geometry. Applied Physics Letters, 2004, 84, 4421-4423.	1.5	117
175	Electromagnetic energy transport along Yagi arrays. Materials Science and Engineering C, 2002, 19, 291-294.	3.8	16
176	Plasmonics-A Route to Nanoscale Optical Devices. Advanced Materials, 2001, 13, 1501-1505.	11.1	1,463
177	Models for quantitative charge imaging by atomic force microscopy. Journal of Applied Physics, 2001, 90, 2764-2772.	1.1	18
178	Charging of single Si nanocrystals by atomic force microscopy. Applied Physics Letters, 2001, 78, 3133-3135.	1.5	51
179	Electromagnetic energy transport along arrays of closely spaced metal rods as an analogue to plasmonic devices. Applied Physics Letters, 2001, 78, 16-18.	1.5	103
180	Localized charge injection in SiO2 films containing silicon nanocrystals. Applied Physics Letters, 2001, 79, 791-793.	1.5	61

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181	Synthesis and characterization of aerosol silicon nanocrystal nonvolatile floating-gate memory devices. Applied Physics Letters, 2001, 79, 433-435.	1.5	161
182	Colloidal Ellipsoids with Continuously Variable Shape. Advanced Materials, 2000, 12, 1511-1514.	11.1	129
183	Strong exciton-erbium coupling in Si nanocrystal-doped SiO2. Applied Physics Letters, 2000, 76, 2325-2327.	1.5	272
184	Electromagnetic energy transfer and switching in nanoparticle chain arrays below the diffraction limit. Physical Review B, 2000, 62, R16356-R16359.	1.1	722
185	Origin of MeV ion irradiation-induced stress changes in SiO2. Journal of Applied Physics, 2000, 88, 59-64.	1.1	75
186	Size-dependent electron-hole exchange interaction in Si nanocrystals. Applied Physics Letters, 2000, 76, 351-353.	1.5	199
187	Depth distribution of luminescent Si nanocrystals in Si implanted SiO2 films on Si. Journal of Applied Physics, 1999, 86, 759-763.	1.1	54
188	Tuning the emission wavelength of Si nanocrystals in SiO2 by oxidation. Applied Physics Letters, 1998, 72, 2577-2579.	1.5	220
189	Temperature dependence of MeV heavy ion irradiation-induced viscous flow in SiO2. Applied Physics Letters, 1997, 71, 1628-1630.	1.5	68
190	Defectâ€related versus excitonic visible light emission from ion beam synthesized Si nanocrystals in SiO2. Applied Physics Letters, 1996, 69, 2033-2035.	1.5	377
191	The role of quantumâ€confined excitons vs defects in the visible luminescence of SiO2 films containing Ge nanocrystals. Applied Physics Letters, 1996, 68, 2511-2513.	1.5	205