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	Plasmonics for extreme light concentration and manipulation. Nature Materials, 2010, 9, 193-204.	13.3	3,773
2	Plasmon-induced hot carrier science and technology. Nature Nanotechnology, 2015, 10, 25-34.	15.6	2,564
3	Dielectric gradient metasurface optical elements. Science, 2014, 345, 298-302.	6.0	1,866
4	Plasmonics-A Route to Nanoscale Optical Devices. Advanced Materials, 2001, 13, 1501-1505.	11.1	1,463
5	Polarization-sensitive broadband photodetector using a black phosphorus vertical pâ€“n junction. Nature Nanotechnology, 2015, 10, 707-713.	15.6	1,007
6	Self-limited plasmonic welding of silver nanowireÂjunctions. Nature Materials, 2012, 11, 241-249.	13.3	1,002
7	Engineering light absorption in semiconductor nanowire devices. Nature Materials, 2009, 8, 643-647.	13.3	802
8	Light management for photovoltaics using high-index nanostructures. Nature Materials, 2014, 13, 451-460.	13.3	796
9	Design of Plasmonic Thinâ€Film Solar Cells with Broadband Absorption Enhancements. Advanced Materials, 2009, 21, 3504-3509.	11.1	761
10	Electromagnetic energy transfer and switching in nanoparticle chain arrays below the diffraction limit. Physical Review B, 2000, 62, R16356-R16359.	1.1	722
11	Spatiotemporal light control with active metasurfaces. Science, 2019, 364, .	6.0	581
12	The Case for Plasmonics. Science, 2010, 328, 440-441.	6.0	524
13	Semiconductor Nanowire Optical Antenna Solar Absorbers. Nano Letters, 2010, 10, 439-445.	4.5	486
14	Planar Lenses Based on Nanoscale Slit Arrays in a Metallic Film. Nano Letters, 2009, 9, 235-238.	4.5	463
15	Plasmon Enhanced Solar-to-Fuel Energy Conversion. Nano Letters, 2011, 11, 3440-3446.	4.5	456
16	Photonic spin-controlled multifunctional shared-aperture antenna array. Science, 2016, 352, 1202-1206.	6.0	408
17	Hybrid Silicon Nanoconeâ€“Polymer Solar Cells. Nano Letters, 2012, 12, 2971-2976.	4.5	402
18	Phase-Coupled Plasmon-Induced Transparency. Physical Review Letters, 2010, 104, 243902.	2.9	390

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19	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
20	Hot-Electron Photodetection with a Plasmonic Nanostripe Antenna. Nano Letters, 2014, 14, 1374-1380.	4.5	343
21	Compact, High-Speed and Power-Efficient Electrooptic Plasmonic Modulators. Nano Letters, 2009, 9, 4403-4411.	4.5	323
22	Optical antenna thermal emitters. Nature Photonics, 2009, 3, 658-661.	15.6	319
23	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
24	Dielectric Metamaterials Based on Electric and Magnetic Resonances of Silicon Carbide Particles. Physical Review Letters, 2007, 99, 107401.	2.9	298
25	Dynamic Reflection Phase and Polarization Control in Metasurfaces. Nano Letters, 2017, 17, 407-413.	4.5	293
26	Tuning the Color of Silicon Nanostructures. Nano Letters, 2010, 10, 2649-2654.	4.5	291
27	Resonant Germanium Nanoantenna Photodetectors. Nano Letters, 2010, 10, 1229-1233.	4.5	277
28	Strong exciton-erbium coupling in Si nanocrystal-doped SiO2. Applied Physics Letters, 2000, 76, 2325-2327.	1.5	272
29	Spatially controlled doping of two-dimensional SnS2 through intercalation for electronics. Nature Nanotechnology, 2018, 13, 294-299.	15.6	269
30	Plasmon-Assisted Local Temperature Control to Pattern Individual Semiconductor Nanowires and Carbon Nanotubes. Nano Letters, 2007, 7, 3523-3527.	4.5	248
31	Electrically Controlled Nonlinear Generation of Light with Plasmonics. Science, 2011, 333, 1720-1723.	6.0	240
32	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
33	An invisible metalâ€“semiconductor photodetector. Nature Photonics, 2012, 6, 380-385.	15.6	223
34	Tuning the emission wavelength of Si nanocrystals in SiO2 by oxidation. Applied Physics Letters, 1998, 72, 2577-2579.	1.5	220
35	A Nonvolatile Plasmonic Switch Employing Photochromic Molecules. Nano Letters, 2008, 8, 1506-1510.	4.5	220
36	Electrically driven subwavelength optical nanocircuits. Nature Photonics, 2014, 8, 244-249.	15.6	219

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37	Plasmonic Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2011, 1, 52-57.	10.2	217
38	Metasurface-driven OLED displays beyond 10,000 pixels per inch. Science, 2020, 370, 459-463.	6.0	212
39	Extraordinary optical absorption through subwavelength slits. Optics Letters, 2009, 34, 686.	1.7	211
40	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
41	Optical Fano resonance of an individual semiconductor nanostructure. Nature Materials, 2014, 13, 471-475.	13.3	205
42	Size-dependent electron-hole exchange interaction in Si nanocrystals. Applied Physics Letters, 2000, 76, 351-353.	1.5	199
43	Electrical tuning of phase-change antennas and metasurfaces. Nature Nanotechnology, 2021, 16, 667-672.	15.6	196
44	A micromachining-based technology for enhancing germanium light emission via tensile strain. Nature Photonics, 2012, 6, 398-405.	15.6	190
45	Multifunctional interleaved geometric-phase dielectric metasurfaces. Light: Science and Applications, 2017, 6, e17027-e17027.	7.7	174
46	Synthesis and characterization of aerosol silicon nanocrystal nonvolatile floating-gate memory devices. Applied Physics Letters, 2001, 79, 433-435.	1.5	161
47	Silicon Mie resonators for highly directional light emission from monolayer MoS2. Nature Photonics, 2018, 12, 284-290.	15.6	160
48	Metamaterial mirrors in optoelectronic devices. Nature Nanotechnology, 2014, 9, 542-547.	15.6	158
49	Plasmon-Assisted Chemical Vapor Deposition. Nano Letters, 2006, 6, 2592-2597.	4.5	153
50	Electro-optical modulation of a silicon waveguide with an â€œepsilon-near-zeroâ€•material. Optics Express, 2013, 21, 26387.	1.7	151
51	Temporal color mixing and dynamic beam shaping with silicon metasurfaces. Science, 2019, 365, 257-260.	6.0	149
52	Surface plasmon polariton analogue to Young's double-slit experiment. Nature Nanotechnology, 2007, 2, 426-429.	15.6	145
53	Design of midinfrared photodetectors enhanced by surface plasmons on grating structures. Applied Physics Letters, 2006, 89, 151116.	1.5	144
54	Direct bandgap germanium-on-silicon inferred from 57% âŒ©100âŒª uniaxial tensile strain [Invited]. Photonics Research, 2014, 2, A8.	3.4	139

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55	Multiple-Wavelength Focusing of Surface Plasmons with a Nonperiodic Nanoslit Coupler. Nano Letters, 2011, 11, 2693-2698.	4.5	133
56	Significant Enhancement of Infrared Photodetector Sensitivity Using a Semiconducting Singleâ€Walled Carbon Nanotube/C₆₀ Phototransistor. Advanced Materials, 2015, 27, 759-765.	11.1	133
57	Spectral properties of plasmonic resonator antennas. Optics Express, 2008, 16, 16529.	1.7	132
58	Colloidal Ellipsoids with Continuously Variable Shape. Advanced Materials, 2000, 12, 1511-1514.	11.1	129
59	Measurement of the polarization state of light using an integrated plasmonic polarimeter. Nanophotonics, 2012, 1, 125-129.	2.9	126
60	Self-Assembly Based Plasmonic Arrays Tuned by Atomic Layer Deposition for Extreme Visible Light Absorption. Nano Letters, 2013, 13, 3352-3357.	4.5	118
61	Omnidirectional resonance in a metalâ€“dielectricâ€“metal geometry. Applied Physics Letters, 2004, 84, 4421-4423.	1.5	117
62	Spatiotemporal light control with frequency-gradient metasurfaces. Science, 2019, 365, 374-377.	6.0	117
63	Strained germanium thin film membrane on silicon substrate for optoelectronics. Optics Express, 2011, 19, 25866.	1.7	114
64	Photonic Multitasking Interleaved Si Nanoantenna Phased Array. Nano Letters, 2016, 16, 7671-7676.	4.5	113
65	Elements for Plasmonic Nanocircuits with Threeâ€Dimensional Slot Waveguides. Advanced Materials, 2010, 22, 5120-5124.	11.1	109
66	Strain-Induced Pseudoheterostructure Nanowires Confining Carriers at Room Temperature with Nanoscale-Tunable Band Profiles. Nano Letters, 2013, 13, 3118-3123.	4.5	107
67	High quality factor phase gradient metasurfaces. Nature Nanotechnology, 2020, 15, 956-961.	15.6	107
68	Tunable Light Emission from Quantum-Confined Excitons in TiSi2-Catalyzed Silicon Nanowires. Nano Letters, 2006, 6, 2140-2144.	4.5	106
69	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
70	Solving dielectric and plasmonic waveguide dispersion relations on a pocket calculator. Optics Express, 2009, 17, 24112.	1.7	103
71	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
72	High Excitation Transfer Efficiency from Energy Relay Dyes in Dye-Sensitized Solar Cells. Nano Letters, 2010, 10, 3077-3083.	4.5	97

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73	Purcell effect for active tuning of light scattering from semiconductor optical antennas. Science, 2017, 358, 1407-1410.	6.0	97
74	General properties of dielectric optical antennas. Optics Express, 2009, 17, 24084.	1.7	94
75	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Grapheneâ€“Silicon Photodetector. ACS Nano, 2020, 14, 16634-16642.	7.3	94
76	Engineering optical nanoantennas. Nature Photonics, 2008, 2, 270-272.	15.6	93
77	Dielectric waveguide model for guided surface polaritons. Optics Letters, 2005, 30, 1473.	1.7	90
78	Omnidirectional Near-Unity Absorption in an Ultrathin Planar Semiconductor Layer on a Metal Substrate. ACS Photonics, 2014, 1, 812-821.	3.2	88
79	Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum. Physical Review Letters, 2019, 122, 117401.	2.9	87
80	Electrically Tunable Coherent Optical Absorption in Graphene with Ion Gel. Nano Letters, 2015, 15, 1570-1576.	4.5	85
81	Applying plasmonics to a sustainable future. Science, 2017, 356, 908-909.	6.0	85
82	Atomic Layer Deposition of Lead Sulfide Quantum Dots on Nanowire Surfaces. Nano Letters, 2011, 11, 934-940.	4.5	84
83	High-specific-power flexible transition metal dichalcogenide solar cells. Nature Communications, 2021, 12, 7034.	5.8	84
84	Broadband enhancement of light emission in silicon slot waveguides. Optics Express, 2009, 17, 7479.	1.7	83
85	Exciton resonance tuning of an atomically thin lens. Nature Photonics, 2020, 14, 426-430.	15.6	80
86	Metal-dielectric-metal plasmonic waveguide devices for manipulating light at the nanoscale. Chinese Optics Letters, 2009, 7, 302-308.	1.3	79
87	Electroluminescence from strained germanium membranes and implications for an efficient Si-compatible laser. Applied Physics Letters, 2012, 100, .	1.5	79
88	Shape-Dependent Light Scattering Properties of Subwavelength Silicon Nanoblocks. Nano Letters, 2015, 15, 1759-1765.	4.5	78
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	Origin of MeV ion irradiation-induced stress changes in SiO2. Journal of Applied Physics, 2000, 88, 59-64.	1.1	75

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91	Light Trapping for Solar Fuel Generation with Mie Resonances. Nano Letters, 2014, 14, 1446-1452.	4.5	75
92	Dynamic thermal emission control with InAs-based plasmonic metasurfaces. Science Advances, 2018, 4, eaat3163.	4.7	74
93	Electrifying plasmonics on silicon. Nature Materials, 2010, 9, 3-4.	13.3	73
94	Backward phase-matching for nonlinear optical generation in negative-index materials. Nature Materials, 2015, 14, 807-811.	13.3	73
95	Quantification of Free-Carrier Absorption in Silicon Nanocrystals with an Optical Microcavity. Nano Letters, 2008, 8, 3787-3793.	4.5	72
96	Photocurrent mapping of near-field optical antenna resonances. Nature Nanotechnology, 2011, 6, 588-593.	15.6	72
97	Electrical tuning of a quantum plasmonic resonance. Nature Nanotechnology, 2017, 12, 866-870.	15.6	72
98	Optical Coupling of Deep-Subwavelength Semiconductor Nanowires. Nano Letters, 2011, 11, 1463-1468.	4.5	70
99	Compact Aperiodic Metallic Groove Arrays for Unidirectional Launching of Surface Plasmons. Nano Letters, 2013, 13, 5420-5424.	4.5	69
100	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
101	Temperature dependence of MeV heavy ion irradiation-induced viscous flow in SiO2. Applied Physics Letters, 1997, 71, 1628-1630.	1.5	68
102	Harvest season for hot electrons. Nature Nanotechnology, 2013, 8, 229-230.	15.6	68
103	Transparent Metallic Fractal Electrodes for Semiconductor Devices. Nano Letters, 2014, 14, 5068-5074.	4.5	66
104	Subwavelength angle-sensing photodetectors inspired by directional hearing in small animals. Nature Nanotechnology, 2018, 13, 1143-1147.	15.6	66
105	Direct laser writing of volumetric gradient index lenses and waveguides. Light: Science and Applications, 2020, 9, 196.	7.7	66
106	Dynamic Tuning of Gap Plasmon Resonances Using a Solid-State Electrochromic Device. Nano Letters, 2019, 19, 7988-7995.	4.5	65
107	Two-Dimensional Chalcogenide Nanoplates as Tunable Metamaterials via Chemical Intercalation. Nano Letters, 2013, 13, 5913-5918.	4.5	64
108	Localized charge injection in SiO2 films containing silicon nanocrystals. Applied Physics Letters, 2001, 79, 791-793.	1.5	61

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109	Epsilon-Near-Zero Si Slot-Waveguide Modulator. ACS Photonics, 2018, 5, 4484-4490.	3.2	59
110	DNA-Assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond. Nano Letters, 2018, 18, 7323-7329.	4.5	58
111	An Electrically-Driven GaAs Nanowire Surface Plasmon Source. Nano Letters, 2012, 12, 4943-4947.	4.5	57
112	Introductory lecture: nanoplasmonics. Faraday Discussions, 2015, 178, 9-36.	1.6	56
113	Depth distribution of luminescent Si nanocrystals in Si implanted SiO2 films on Si. Journal of Applied Physics, 1999, 86, 759-763.	1.1	54
114	Active flat optics using a guided mode resonance. Optics Letters, 2017, 42, 5.	1.7	54
115	Plasmonics â€“ the missing link between nanoelectronics and microphotonics. Applied Physics A: Materials Science and Processing, 2007, 89, 221-223.	1.1	53
116	Nanophotonic light trapping with patterned transparent conductive oxides. Optics Express, 2012, 20, A385.	1.7	53
117	Ultrafast developments. Nature Photonics, 2009, 3, 12-13.	15.6	52
118	Redesigning Photodetector Electrodes as an Optical Antenna. Nano Letters, 2013, 13, 392-396.	4.5	52
119	Non-local metasurfaces for spectrally decoupled wavefront manipulation and eye tracking. Nature Nanotechnology, 2021, 16, 1224-1230.	15.6	52
120	Charging of single Si nanocrystals by atomic force microscopy. Applied Physics Letters, 2001, 78, 3133-3135.	1.5	51
121	Antireflection High-Index Metasurfaces Combining Mie and Fabry-PÃ©rot Resonances. ACS Photonics, 2019, 6, 453-459.	3.2	51
122	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
123	Imaging the Hidden Modes of Ultrathin Plasmonic Strip Antennas by Cathodoluminescence. Nano Letters, 2011, 11, 4265-4269.	4.5	49
124	Broadband Sharp 90-degree Bends and T-Splitters in Plasmonic Coaxial Waveguides. Nano Letters, 2013, 13, 4753-4758.	4.5	42
125	A Light-Field Metasurface for High-Resolution Single-Particle Tracking. Nano Letters, 2019, 19, 2267-2271.	4.5	41
126	Routing and photodetection in subwavelength plasmonic slot waveguides. Nanophotonics, 2012, 1, 9-16.	2.9	40

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127	Observing Plasmon Damping Due to Adhesion Layers in Gold Nanostructures Using Electron Energy Loss Spectroscopy. ACS Photonics, 2017, 4, 268-274.	3.2	40
128	Broadband Antireflection Coatings Employing Multiresonant Dielectric Metasurfaces. ACS Photonics, 2018, 5, 4456-4462.	3.2	39
129	Spin-Switched Three-Dimensional Full-Color Scenes Based on a Dielectric Meta-hologram. ACS Photonics, 2019, 6, 2910-2916.	3.2	39
130	Tensile-strained germanium-on-insulator substrate fabrication for silicon-compatible optoelectronics. Optical Materials Express, 2011, 1, 1121.	1.6	37
131	Nanoscale Spatial Coherent Control over the Modal Excitation of a Coupled Plasmonic Resonator System. Nano Letters, 2015, 15, 7666-7670.	4.5	37
132	Tuning of Plasmons in Transparent Conductive Oxides by Carrier Accumulation. ACS Photonics, 2018, 5, 1493-1498.	3.2	37
133	Second-Harmonic Generation in GaAs Photonic Crystal Cavities in (111)B and (001) Crystal Orientations. ACS Photonics, 2014, 1, 516-523.	3.2	36
134	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
135	Fabry-Perot description for Mie resonances of rectangular dielectric nanowire optical resonators. Optics Express, 2016, 24, 29760.	1.7	35
136	Superabsorbing, Artificial Metal Films Constructed from Semiconductor Nanoantennas. Nano Letters, 2016, 16, 3801-3808.	4.5	35
137	Observation of improved minority carrier lifetimes in high-quality Ge-on-insulator using time-resolved photoluminescence. Optics Letters, 2014, 39, 6205.	1.7	34
138	The Planar Parabolic Optical Antenna. Nano Letters, 2013, 13, 188-193.	4.5	33
139	Sombrero-Shaped Plasmonic Nanoparticles with Molecular-Level Sensitivity and Multifunctionality. ACS Nano, 2011, 5, 6449-6457.	7.3	32
140	Gap Plasmon Resonance in a Suspended Plasmonic Nanowire Coupled to a Metallic Substrate. Nano Letters, 2015, 15, 5609-5616.	4.5	31
141	Polarization-independent metasurface lens employing the Pancharatnam-Berry phase. Optics Express, 2018, 26, 24835.	1.7	31
142	Monolithic integration of germanium-on-insulator p-i-n photodetector on silicon. Optics Express, 2015, 23, 15816.	1.7	30
143	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
144	Porous Silicon Gradient Refractive Index Micro-Optics. Nano Letters, 2016, 16, 7402-7407.	4.5	30

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145	The road to atomically thin metasurface optics. Nanophotonics, 2020, 10, 643-654.	2.9	30
146	Plasmon-enhanced emission from optically-doped MOS light sources. Optics Express, 2009, 17, 185.	1.7	29
147	Thermal Stability and Surface Passivation of Ge Nanowires Coated by Epitaxial SiGe Shells. Nano Letters, 2012, 12, 1385-1391.	4.5	29
148	Electrically Tunable, CMOS-Compatible Metamaterial Based on Semiconductor Nanopillars. ACS Photonics, 2018, 5, 4702-4709.	3.2	29
149	Bandgap-customizable germanium using lithographically determined biaxial tensile strain for silicon-compatible optoelectronics. Optics Express, 2015, 23, 16740.	1.7	28
150	Thermoplasmonic Ignition of Metal Nanoparticles. Nano Letters, 2018, 18, 1699-1706.	4.5	28
151	Energy transfer in nanowire solar cells with photon-harvesting shells. Journal of Applied Physics, 2009, 105, 124509.	1.1	27
152	Power flow from a dipole emitter near an optical antenna. Optics Express, 2011, 19, 19084.	1.7	27
153	Synthesis parameter space of bismuth catalyzed germanium nanowires. Applied Physics Letters, 2009, 94, .	1.5	25
154	Single crystalline and coreâ€“shell indium-catalyzed germanium nanowiresâ€”a systematic thermal CVD growth study. Nanotechnology, 2009, 20, 245608.	1.3	25
155	Side-coupled cavity model for surface plasmon-polariton transmission across a groove. Optics Express, 2009, 17, 17837.	1.7	25
156	Engineering light absorption in single-nanowire solar cells with metal nanoparticles. New Journal of Physics, 2011, 13, 123026.	1.2	24
157	Probing Molecular Junctions Using Surface Plasmon Resonance Spectroscopy. Nano Letters, 2006, 6, 2797-2803.	4.5	22
158	Near-infrared free-carrier absorption in silicon nanocrystals. Optics Letters, 2009, 34, 3397.	1.7	22
159	Microring and microdisk optical resonators using silicon nanocrystals and erbium prepared using silicon technology. Optical Materials, 2005, 27, 804-811.	1.7	21
160	Free-Space Optical Beam Tapping with an All-Silica Metasurface. ACS Photonics, 2017, 4, 2544-2549.	3.2	20
161	Effects of surface oxide formation on germanium nanowire band-edge photoluminescence. Applied Physics Letters, 2013, 102, .	1.5	19
162	Nanoelectromechanical modulation of a strongly-coupled plasmonic dimer. Nature Communications, 2021, 12, 48.	5.8	19

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163	Models for quantitative charge imaging by atomic force microscopy. Journal of Applied Physics, 2001, 90, 2764-2772.	1.1	18
164	Silicon-Nanocrystal-Coated Silica Microsphere Thermooptical Switch. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1476-1479.	1.9	18
165	Lateral overgrowth of germanium for monolithic integration of germanium-on-insulator on silicon. Journal of Crystal Growth, 2015, 416, 21-27.	0.7	18
166	Deep-Subwavelength Semiconductor Nanowire Surface Plasmon Polariton Couplers. Nano Letters, 2014, 14, 429-434.	4.5	17
167	Ultrafast Electron and Phonon Response of Oriented and Diameter-Controlled Germanium Nanowire Arrays. Nano Letters, 2014, 14, 3427-3431.	4.5	17
168	Electromagnetic energy transport along Yagi arrays. Materials Science and Engineering C, 2002, 19, 291-294.	3.8	16
169	Plasmonic and new plasmonic materials: general discussion. Faraday Discussions, 2015, 178, 123-149.	1.6	16
170	An Overâ€Coupled Phaseâ€Change Metasurface for Efficient Reflection Phase Modulation. Advanced Optical Materials, 2020, 8, 2000745.	3.6	16
171	Anisotropic Metasurfaces as Tunable SERS Substrates for 2D Materials. ACS Photonics, 2019, 6, 1996-2004.	3.2	15
172	Plasmon Launching and Scattering by Silicon Nanoparticles. ACS Photonics, 2021, 8, 1582-1591.	3.2	15
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	Spatially resolved Raman spectroscopy on indium-catalyzed coreâ€“shell germanium nanowires: size effects. Nanotechnology, 2010, 21, 105703.	1.3	13
175	Metasurface Mirrors for External Control of Mie Resonances. Nano Letters, 2018, 18, 3857-3864.	4.5	13
176	Plasmonics gets transformed. Nature Nanotechnology, 2010, 5, 485-486.	15.6	12
177	An ab-initio coupled mode theory for near field radiative thermal transfer. Optics Express, 2014, 22, 30032.	1.7	12
178	Plasmonics in optoelectronic devices. Nanotechnology, 2012, 23, 440201-440201.	1.3	10
179	Ultrafast Carrier Dynamics of a Photo-Excited Germanium Nanowireâ€“Air Metamaterial. ACS Photonics, 2015, 2, 1091-1098.	3.2	10
180	Rare-Earth Monopnictide Alloys for Tunable, Epitaxial, Designer Plasmonics. ACS Photonics, 2018, 5, 3051-3056.	3.2	9

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181	Spectrally interleaved topologies using geometric phase metasurfaces. Optics Express, 2018, 26, 31031.	1.7	9
182	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
183	Light emission from strained germanium. Nature Photonics, 2013, 7, 162-163.	15.6	8
184	Self-Assembled Nanoâ€“Lotus Pod Metasurface for Light Trapping. ACS Photonics, 2021, 8, 1616-1622.	3.2	8
185	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
186	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
187	Order and Disorder Embedded in a Spectrally Interleaved Metasurface. ACS Photonics, 2018, 5, 4764-4768.	3.2	5
188	Quantum plasmonics, gain and spasers: general discussion. Faraday Discussions, 2015, 178, 325-334.	1.6	4
189	Planar Far-Field Lensing with Plasmonic Nano-Slit Arrays. Optics and Photonics News, 2009, 20, 24.	0.4	2
190	Mark Stockman: Evangelist for Plasmonics. ACS Photonics, 2021, 8, 683-698.	3.2	2
191	Photochemistry democratizes 3D nanoprinting. Nature Photonics, 2021, 15, 871-873.	15.6	2