

Albert Polman

List of Publications by Year in descending order

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386
papers

43,110
citations

2696

98
h-index

2750

198
g-index

392
all docs

392
docs citations

392
times ranked

34850
citing authors

#	ARTICLE	IF	CITATIONS
1	Directional quantum dot emission by soft-stamping on silicon Mie resonators. <i>Nanoscale Advances</i> , 2022, 4, 1088-1097.	2.2	2
2	Avoiding Shading Losses in Concentrator Photovoltaics Using a Soft-Imprinted Cloaking Geometry. <i>IEEE Journal of Photovoltaics</i> , 2022, 12, 1116-1127.	1.5	5
3	Cylindrical Metalens for Generation and Focusing of Free-Electron Radiation. <i>Nano Letters</i> , 2022, 22, 5641-5650.	4.5	12
4	Photonics for Photovoltaics: Advances and Opportunities. <i>ACS Photonics</i> , 2021, 8, 61-70.	3.2	52
5	Smith-Purcell Metasurface Lens. , 2021, , .		1
6	Solving integral equations with inverse-designed metagratings at optical wavelengths. , 2021, , .		2
7	Photon Statistics of Incoherent Cathodoluminescence with Continuous and Pulsed Electron Beams. <i>ACS Photonics</i> , 2021, 8, 916-925.	3.2	10
8	Mark Stockman: Evangelist for Plasmonics. <i>ACS Photonics</i> , 2021, 8, 683-698.	3.2	2
9	Spontaneous and stimulated electron-photon interactions in nanoscale plasmonic near fields. <i>Light: Science and Applications</i> , 2021, 10, 82.	7.7	40
10	Employing Cathodoluminescence for Nanothermometry and Thermal Transport Measurements in Semiconductor Nanowires. <i>ACS Nano</i> , 2021, 15, 11385-11395.	7.3	13
11	Near-Infrared Cathodoluminescence Polarimetry of a Plasmonic Vertical Split Ring Resonator. <i>Microscopy and Microanalysis</i> , 2021, 27, 706-708.	0.2	0
12	Unlocking Higher Power Efficiencies in Luminescent Solar Concentrators through Anisotropic Luminophore Emission. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40742-40753.	4.0	8
13	Electron-Induced State Conversion in Diamond NV Centers Measured with Pump-Probe Cathodoluminescence Spectroscopy. <i>ACS Photonics</i> , 2020, 7, 232-240.	3.2	29
14	Electrons Generate Self-Complementary Broadband Vortex Light Beams Using Chiral Photon Sieves. <i>Nano Letters</i> , 2020, 20, 5975-5981.	4.5	18
15	Photovoltaics Reaching for the Shockley-Queisser Limit. <i>ACS Energy Letters</i> , 2020, 5, 3029-3033.	8.8	149
16	Phase-Resolved Surface Plasmon Scattering Probed by Cathodoluminescence Holography. <i>ACS Photonics</i> , 2020, 7, 1476-1482.	3.2	15
17	Dual-Polarization Analog 2D Image Processing with Nonlocal Metasurfaces. <i>ACS Photonics</i> , 2020, 7, 1799-1805.	3.2	59
18	Resonant Metagratings for Spectral and Angular Control of Light for Colored Rooftop Photovoltaics. <i>ACS Applied Energy Materials</i> , 2020, 3, 3150-3156.	2.5	14

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19	Inverse designed metagratings for far-field integral equations solving. , 2020, , .		1
20	Electron-beam spectroscopy for nanophotonics. Nature Materials, 2019, 18, 1158-1171.	13.3	193
21	High-Index Dielectric Metasurfaces Performing Mathematical Operations. Nano Letters, 2019, 19, 8418-8423.	4.5	143
22	Nanoscale spatial limitations of large-area substrate conformal imprint lithography. Nanotechnology, 2019, 30, 345301.	1.3	30
23	Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum. Physical Review Letters, 2019, 122, 117401.	2.9	87
24	Combined Metagratings for Efficient Broad-Angle Scattering Metasurface. ACS Photonics, 2019, 6, 1010-1017.	3.2	38
25	Spatial Resolution of Coherent Cathodoluminescence Super-Resolution Microscopy. ACS Photonics, 2019, 6, 1067-1072.	3.2	22
26	Merging transformation optics with electron-driven photon sources. Nature Communications, 2019, 10, 599.	5.8	31
27	Tunable plasmonic HfN nanoparticles and arrays. Nanoscale, 2019, 11, 20252-20260.	2.8	21
28	Energy-Momentum Cathodoluminescence Imaging of Anisotropic Directionality in Elliptical Aluminum Plasmonic Bullseye Antennas. ACS Photonics, 2019, 6, 573-580.	3.2	9
29	Complementary cathodoluminescence lifetime imaging configurations in a scanning electron microscope. Ultramicroscopy, 2019, 197, 28-38.	0.8	39
30	Application and validity of the effective medium approximation to the optical properties of nano-textured silicon coated with a dielectric layer. Optics Express, 2019, 27, 38645.	1.7	17
31	Full Energy-Momentum Cathodoluminescence Mapping on Circular and Elliptical Plasmonic Bullseye Antennas. , 2019, , .		0
32	Dielectric metasurfaces performing all-analog computing. , 2019, , .		0
33	Nanoscale inspection of GaN LED devices using $g^{(2)}$ cathodoluminescence imaging. , 2019, , .		0
34	Efficient Green Emission from Wurtzite Al _x In _{1-x} P Nanowires. Nano Letters, 2018, 18, 3543-3549.	4.5	16
35	Nanoscale Relative Emission Efficiency Mapping Using Cathodoluminescence $g^{(2)}$ Imaging. Nano Letters, 2018, 18, 2288-2293.	4.5	32
36	Nonlocal Metasurfaces for Optical Signal Processing. Physical Review Letters, 2018, 121, 173004.	2.9	250

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37	Topological photonic crystals in the visible: design and angle-resolved characterization of the bulk and edge states. , 2018, , .		0
38	Subwavelength imaging of collective modes in silicon nanopillar honeycomb lattices. , 2018, , .		1
39	Correlative electron energy loss spectroscopy and cathodoluminescence spectroscopy on three-dimensional plasmonic split ring resonators. Microscopy (Oxford, England), 2018, 67, i40-i51.	0.7	5
40	Non-local computing metasurfaces performing mathematical operations. , 2018, , .		0
41	Visible Light, Wide-Angle Graded Metasurface for Back Reflection. ACS Photonics, 2017, 4, 228-235.	3.2	67
42	Monocrystalline Nanopatterns Made by Nanocube Assembly and Epitaxy. Advanced Materials, 2017, 29, 1701064.	11.1	16
43	Optoelectronic Enhancement of Ultrathin $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ Solar Cells by Nanophotonic Contacts. Advanced Optical Materials, 2017, 5, 1600637.	3.6	39
44	Photon bunching reveals single-electron cathodoluminescence excitation efficiency in InGaN quantum wells. Physical Review B, 2017, 96, .	1.1	33
45	Efficient colored silicon solar modules using integrated resonant dielectric nanoscatterers. Applied Physics Letters, 2017, 111, .	1.5	49
46	Large area nanoimprint by substrate conformal imprint lithography (SCIL). Advanced Optical Technologies, 2017, 6, 243-264.	0.9	62
47	Surface plasmon polariton modes in coaxial metal-dielectric-metal waveguides. New Journal of Physics, 2016, 18, 043016.	1.2	4
48	Highly conductive Ag nanowire hybrid electrodes improve silicon heterojunction solar cells. , 2016, , .		1
49	Controlling magnetic and electric dipole modes in hollow silicon nanocylinders. Optics Express, 2016, 24, 2047.	1.7	68
50	Photovoltaic materials: Present efficiencies and future challenges. Science, 2016, 352, aad4424.	6.0	1,592
51	Metal-Insulator-Semiconductor Nanowire Network Solar Cells. Nano Letters, 2016, 16, 3689-3695.	4.5	28
52	Soft imprinted Ag nanowire hybrid electrodes on silicon heterojunction solar cells. Nano Energy, 2016, 30, 398-406.	8.2	15
53	Fabrication process of a coaxial plasmonic metamaterial. Optical Materials Express, 2016, 6, 884.	1.6	7
54	Combined electron energy-loss and cathodoluminescence spectroscopy on individual and composite plasmonic nanostructures. Physical Review B, 2016, 93, .	1.1	22

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55	Generalized antireflection coatings for complex bulk metamaterials. <i>Physical Review B</i> , 2016, 93, .	1.1	5
56	Femtosecond plasmon and photon wave packets excited by a high-energy electron on a metal or dielectric surface. <i>Physical Review B</i> , 2016, 94, .	1.1	14
57	Thermodynamic theory of the plasmoelectric effect. <i>Scientific Reports</i> , 2016, 6, 23283.	1.6	28
58	Near-Infrared Spectroscopic Cathodoluminescence Imaging Polarimetry on Silicon Photonic Crystal Waveguides. <i>ACS Photonics</i> , 2016, 3, 2112-2121.	3.2	18
59	Solution-Grown Silver Nanowire Ordered Arrays as Transparent Electrodes. <i>Advanced Materials</i> , 2016, 28, 905-909.	11.1	101
60	Nanowires: Solution-Grown Silver Nanowire Ordered Arrays as Transparent Electrodes (<i>Adv. Mater.</i>) Tj ETQq0 0 0 JgBT /Overlock 10 Tf	11.1	2
61	Planar metal/dielectric single-periodic multilayer ultraviolet flat lens. <i>Optica</i> , 2016, 3, 592.	4.8	16
62	Direct imaging of hybridized eigenmodes in coupled silicon nanoparticles. <i>Optica</i> , 2016, 3, 93.	4.8	70
63	Angle-Resolved Cathodoluminescence Imaging Polarimetry. <i>ACS Photonics</i> , 2016, 3, 147-154.	3.2	76
64	Directional Emission from Leaky and Guided Modes in GaAs Nanowires Measured by Cathodoluminescence. <i>ACS Photonics</i> , 2016, 3, 677-684.	3.2	18
65	Plasmonic Scattering Back Reflector for Light Trapping in Flat Nano-Crystalline Silicon Solar Cells. <i>ACS Photonics</i> , 2016, 3, 685-691.	3.2	24
66	Optical properties of high-quality nanohole arrays in gold made using soft-nanoimprint lithography. <i>MRS Communications</i> , 2015, 5, 547-553.	0.8	6
67	Photoelectron imaging of modal interference in plasmonic whispering gallery cavities. <i>Optics Express</i> , 2015, 23, 31619.	1.7	15
68	Efficient nanorod-based amorphous silicon solar cells with advanced light trapping. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	10
69	Azimuthally polarized cathodoluminescence from InP nanowires. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	7
70	Single-Step Soft-Imprinted Large-Area Nanopatterned Antireflection Coating. <i>Nano Letters</i> , 2015, 15, 4223-4228.	4.5	86
71	3D-printed external light traps for solar cells. , 2015, , .		0
72	Gallium Plasmonics: Deep Subwavelength Spectroscopic Imaging of Single and Interacting Gallium Nanoparticles. <i>ACS Nano</i> , 2015, 9, 2049-2060.	7.3	133

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73	Limiting Light Escape Angle in Silicon Photovoltaics: Ideal and Realistic Cells. IEEE Journal of Photovoltaics, 2015, 5, 61-69.	1.5	23
74	Effect of EVA Encapsulation on Antireflection Properties of Mie Nanoscatterers for c-Si Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 559-564.	1.5	15
75	Large-area soft-imprinted nanowire networks as light trapping transparent conductors. Scientific Reports, 2015, 5, 11414.	1.6	53
76	Dielectric Scattering Patterns for Efficient Light Trapping in Thin-Film Solar Cells. Nano Letters, 2015, 15, 4846-4852.	4.5	64
77	Optimized Scattering Power Spectral Density of Photovoltaic Light-Trapping Patterns. ACS Photonics, 2015, 2, 822-831.	3.2	61
78	Nanophotonics: Shrinking light-based technology. Science, 2015, 348, 516-521.	6.0	463
79	Plasmomechanical Resonators Based on Dimer Nanoantennas. Nano Letters, 2015, 15, 3971-3976.	4.5	45
80	Nanoscale optical tomography with cathodoluminescence spectroscopy. Nature Nanotechnology, 2015, 10, 429-436.	15.6	90
81	Cathodoluminescence microscopy: Optical imaging and spectroscopy with deep-subwavelength resolution. MRS Bulletin, 2015, 40, 359-365.	1.7	44
82	Nanoscale Spatial Coherent Control over the Modal Excitation of a Coupled Plasmonic Resonator System. Nano Letters, 2015, 15, 7666-7670.	4.5	37
83	Light Coupling and Trapping in Ultrathin Cu(In,Ga)Se ₂ Solar Cells Using Dielectric Scattering Patterns. ACS Nano, 2015, 9, 9603-9613.	7.3	102
84	Quantifying coherent and incoherent cathodoluminescence in semiconductors and metals. Journal of Applied Physics, 2014, 115, .	1.1	52
85	Nanoscale Excitation Mapping of Plasmonic Patch Antennas. ACS Photonics, 2014, 1, 1134-1143.	3.2	27
86	Parallel Transduction of Nanomechanical Motion Using Plasmonic Resonators. ACS Photonics, 2014, 1, 1181-1188.	3.2	23
87	Light Trapping in Thin Crystalline Si Solar Cells Using Surface Mie Scatterers. IEEE Journal of Photovoltaics, 2014, 4, 554-559.	1.5	68
88	Plasmoelectric potentials in metal nanostructures. Science, 2014, 346, 828-831.	6.0	209
89	Reply to 'On the thermodynamics of light trapping in solar cells'. Nature Materials, 2014, 13, 104-105.	13.3	5
90	Directional emission from a single plasmonic scatterer. Nature Communications, 2014, 5, 3250.	5.8	154

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91	Experimental Realization of a Polarization-Independent Ultraviolet/Visible Coaxial Plasmonic Metamaterial. <i>Nano Letters</i> , 2014, 14, 6356-6360.	4.5	14
92	Negative Refractive Index and Higher-Order Harmonics in Layered Metallo-dielectric Optical Metamaterials. <i>ACS Photonics</i> , 2014, 1, 670-676.	3.2	24
93	Optical Properties of Single Plasmonic Holes Probed with Local Electron Beam Excitation. <i>ACS Nano</i> , 2014, 8, 7350-7358.	7.3	48
94	Resonant Modes of Single Silicon Nanocavities Excited by Electron Irradiation. <i>ACS Nano</i> , 2013, 7, 1689-1698.	7.3	80
95	Plasmonic light-trapping in a-Si:H solar cells by front-side Ag nanoparticle arrays: A benchmarking study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1571-1574.	0.8	12
96	Al ₂ O ₃ /TiO ₂ nano-pattern antireflection coating with ultralow surface recombination. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	73
97	Experimental realization of an epsilon-near-zero metamaterial at visible wavelengths. <i>Nature Photonics</i> , 2013, 7, 907-912.	15.6	414
98	Solar Steam Nanobubbles. <i>ACS Nano</i> , 2013, 7, 15-18.	7.3	73
99	The Planar Parabolic Optical Antenna. <i>Nano Letters</i> , 2013, 13, 188-193.	4.5	33
100	Highly efficient GaAs solar cells by limiting light emission angle. <i>Light: Science and Applications</i> , 2013, 2, e45-e45.	7.7	260
101	Evolution of Light-Induced Vapor Generation at a Liquid-Immersed Metallic Nanoparticle. <i>Nano Letters</i> , 2013, 13, 1736-1742.	4.5	394
102	Experimental Verification of $\langle n \rangle = \langle n^2 \rangle / 2$ Structures for Visible Light. <i>Physical Review Letters</i> , 2013, 110, 013902.	2.9	208
103	Nanophotonic design principles for ultrahigh efficiency photovoltaics. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	11
104	Plasmon Nanomechanical Coupling for Nanoscale Transduction. <i>Nano Letters</i> , 2013, 13, 3293-3297.	4.5	76
105	Dielectric back scattering patterns for light trapping in thin-film Si solar cells. <i>Optics Express</i> , 2013, 21, 20738.	1.7	27
106	Designing dielectric resonators on substrates: Combining magnetic and electric resonances. <i>Optics Express</i> , 2013, 21, 26285.	1.7	313
107	Plasmonic excitation and manipulation with an electron beam. <i>MRS Bulletin</i> , 2012, 37, 752-760.	1.7	42
108	Special issue on green photonics. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 020201-020201.	1.0	0

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109	Polarization-sensitive cathodoluminescence Fourier microscopy. <i>Optics Express</i> , 2012, 20, 18679.	1.7	19
110	Mode coupling by plasmonic surface scatterers in thin-film silicon solar cells. <i>Applied Physics Letters</i> , 2012, 101, 221110.	1.5	60
111	Deep-subwavelength imaging of the modal dispersion of light. <i>Nature Materials</i> , 2012, 11, 781-787.	13.3	121
112	Dispersive Ground Plane Core-Shell Type Optical Monopole Antennas Fabricated with Electron Beam Induced Deposition. <i>ACS Nano</i> , 2012, 6, 8226-8232.	7.3	16
113	Prospects of near-field plasmonic absorption enhancement in semiconductor materials using embedded Ag nanoparticles. <i>Optics Express</i> , 2012, 20, A641.	1.7	107
114	Plasmonic light trapping in thin-film Si solar cells. <i>Journal of Optics (United Kingdom)</i> , 2012, 14, 024002.	1.0	307
115	Transparent Conducting Silver Nanowire Networks. <i>Nano Letters</i> , 2012, 12, 3138-3144.	4.5	478
116	Broadband omnidirectional antireflection coating based on subwavelength surface Mie resonators. <i>Nature Communications</i> , 2012, 3, 692.	5.8	734
117	Deep Subwavelength Spatial Characterization of Angular Emission from Single-Crystal Au Plasmonic Ridge Nanoantennas. <i>ACS Nano</i> , 2012, 6, 1742-1750.	7.3	45
118	Water-Based Assembly and Purification of Plasmon-Coupled Gold Nanoparticle Dimers and Trimers. <i>International Journal of Optics</i> , 2012, 2012, 1-5.	0.6	11
119	Photonic design principles for ultrahigh-efficiency photovoltaics. <i>Nature Materials</i> , 2012, 11, 174-177.	13.3	771
120	Ultrahigh-efficiency solar cells based on nanophotonic design. , 2012, , .		0
121	Resonant nano-antennas for light trapping in plasmonic solar cells. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 185101.	1.3	61
122	Conformal plasmonic a-Si:H solar cells with non-periodic light trapping patterns. , 2011, , .		0
123	Modeling Light Trapping in Nanostructured Solar Cells. <i>ACS Nano</i> , 2011, 5, 10055-10064.	7.3	205
124	Optical Impedance Matching Using Coupled Plasmonic Nanoparticle Arrays. <i>Nano Letters</i> , 2011, 11, 1760-1765.	4.5	210
125	Directional Emission from Plasmonic Yagi-Uda Antennas Probed by Angle-Resolved Cathodoluminescence Spectroscopy. <i>Nano Letters</i> , 2011, 11, 3779-3784.	4.5	172
126	Plasmonic Whispering Gallery Cavities As Optical Nanoantennas. <i>Nano Letters</i> , 2011, 11, 5524-5530.	4.5	35

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127	Optical and Topological Characterization of Gold Nanoparticle Dimers Linked by a Single DNA Double Strand. Nano Letters, 2011, 11, 5060-5065.	4.5	112
128	Imaging the Hidden Modes of Ultrathin Plasmonic Strip Antennas by Cathodoluminescence. Nano Letters, 2011, 11, 4265-4269.	4.5	49
129	Resonant SPP modes supported by discrete metal nanoparticles on high-index substrates. Optics Express, 2011, 19, A146.	1.7	65
130	Controlling Fano lineshapes in plasmon-mediated light coupling into a substrate. Optics Express, 2011, 19, A303.	1.7	63
131	Optimized Spatial Correlations for Broadband Light Trapping Nanopatterns in High Efficiency Ultrathin Film a-Si:H Solar Cells. Nano Letters, 2011, 11, 4239-4245.	4.5	350
132	Single-Photon Generation by Electron Beams. Nano Letters, 2011, 11, 5099-5103.	4.5	36
133	Improved performance of polarization-stable VCSELs by monolithic sub-wavelength gratings produced by soft nano-imprint lithography. Nanotechnology, 2011, 22, 505201.	1.3	38
134	Microphotonic parabolic light directors fabricated by two-photon lithography. Applied Physics Letters, 2011, 99, .	1.5	69
135	A copper negative index metamaterial in the visible/near-infrared. Applied Physics Letters, 2011, 99, 161108.	1.5	14
136	Controlled spontaneous emission in plasmonic whispering gallery antennas. Applied Physics Letters, 2011, 99, .	1.5	11
137	Angle-resolved cathodoluminescence spectroscopy. Applied Physics Letters, 2011, 99, .	1.5	67
138	Light Trapping in Plasmonic Solar Cells. , 2011, , .		6
139	Plasmonics for improved photovoltaic devices. , 2010, , 1-11.		41
140	Ultrasmall Mode Volume Plasmonic Nanodisk Resonators. Nano Letters, 2010, 10, 1537-1541.	4.5	190
141	A silicon-based electrical source of surface plasmon polaritons. Nature Materials, 2010, 9, 21-25.	13.3	198
142	Plasmonics for improved photovoltaic devices. Nature Materials, 2010, 9, 205-213.	13.3	7,449
143	A single-layer wide-angle negative-index metamaterial at visible frequencies. Nature Materials, 2010, 9, 407-412.	13.3	238
144	Plasmonic anti-reflection coating for thin film solar cells. , 2010, , .		1

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145	Plasmonic Nanofocusing in a Dielectric Wedge. Nano Letters, 2010, 10, 3665-3669.	4.5	49
146	Negative refractive index in coaxial plasmon waveguides. Optics Express, 2010, 18, 12770.	1.7	36
147	Light trapping in ultrathin plasmonic solar cells. Optics Express, 2010, 18, A237.	1.7	587
148	Plasmonic light trapping for thin film a-Si:H solar cells. , 2010, , .		4
149	Broadband Purcell enhancement in plasmonic ring cavities. Physical Review B, 2010, 82, .	1.1	74
150	Asymmetry in photocurrent enhancement by plasmonic nanoparticle arrays located on the front or on the rear of solar cells. Applied Physics Letters, 2010, 96, .	1.5	153
151	Three-Dimensional Negative Index of Refraction at Optical Frequencies by Coupling Plasmonic Waveguides. Physical Review Letters, 2010, 105, 223901.	2.9	94
152	Dispersion of metal-insulator-metal plasmon polaritons probed by cathodoluminescence imaging spectroscopy. Physical Review B, 2009, 80, .	1.1	39
153	Plasmonics - from nanoscale integrated circuits to nano-photovoltaics. , 2009, , .		0
154	Enhanced spontaneous emission rate in annular plasmonic nanocavities. Applied Physics Letters, 2009, 95, .	1.5	23
155	Plasmonic metamaterials. , 2009, , .		0
156	Fabry-Pérot resonators for surface plasmon polaritons probed by cathodoluminescence. Applied Physics Letters, 2009, 94, .	1.5	34
157	Improved red-response in thin film a-Si:H solar cells with soft-imprinted plasmonic back reflectors. Applied Physics Letters, 2009, 95, .	1.5	257
158	Efficient Generation of Propagating Plasmons by Electron Beams. Nano Letters, 2009, 9, 1176-1181.	4.5	68
159	On-chip green silica upconversion microlaser. Optics Letters, 2009, 34, 482.	1.7	59
160	How grooves reflect and confine surface plasmon polaritons. Optics Express, 2009, 17, 10385.	1.7	54
161	Field enhancement in metallic subwavelength aperture arrays probed by erbium upconversion luminescence. Optics Express, 2009, 17, 14586.	1.7	98
162	Plasmon Dispersion in Coaxial Waveguides from Single-Cavity Optical Transmission Measurements. Nano Letters, 2009, 9, 2832-2837.	4.5	93

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163	Modal Decomposition of Surface Plasmon Whispering Gallery Resonators. Nano Letters, 2009, 9, 3147-3150.	4.5	80
164	Tunable light trapping for solar cells using localized surface plasmons. Journal of Applied Physics, 2009, 105, .	1.1	476
165	Nanowire Plasmon Excitation by Adiabatic Mode Transformation. Physical Review Letters, 2009, 102, 203904.	2.9	219
166	Strong luminescence quantum-efficiency enhancement near prolate metal nanoparticles: Dipolar versus higher-order modes. Journal of Applied Physics, 2009, 105, .	1.1	56
167	Local density of states, spectrum, and far-field interference of surface plasmon polaritons probed by cathodoluminescence. Physical Review B, 2009, 79, .	1.1	132
168	Purcell-Factor-Enhanced Scattering from Si Nanocrystals in an Optical Microcavity. Physical Review Letters, 2009, 103, 027406.	2.9	99
169	Active plasmonic devices and optical metamaterials. , 2009, , .		1
170	Designing periodic arrays of metal nanoparticles for light-trapping applications in solar cells. Applied Physics Letters, 2009, 95, .	1.5	214
171	Design principles for particle plasmon enhanced solar cells. Applied Physics Letters, 2008, 93, .	1.5	762
172	Loss mechanisms of surface plasmon polaritons on gold probed by cathodoluminescence imaging spectroscopy.. Applied Physics Letters, 2008, 93, .	1.5	102
173	Optical cavity modes in gold shell colloids. Journal of Applied Physics, 2008, 103, .	1.1	44
174	Plasmonics Applied. Science, 2008, 322, 868-869.	6.0	283
175	Nanofocusing in laterally tapered plasmonic waveguides. Optics Express, 2008, 16, 45.	1.7	227
176	Are negative index materials achievable with surface plasmon waveguides? A case study of three plasmonic geometries. Optics Express, 2008, 16, 19001.	1.7	95
177	Plasmonic solar cells. Optics Express, 2008, 16, 21793.	1.7	1,411
178	Optical Properties of Spherical and Oblate Spheroidal Gold Shell Colloids. Journal of Physical Chemistry C, 2008, 112, 4146-4150.	1.5	39
179	Plasmon-Based Nanolenses Assembled on a Well-Defined DNA Template. Journal of the American Chemical Society, 2008, 130, 2750-2751.	6.6	139
180	Near-Field Visualization of Strongly Confined Surface Plasmon Polaritons in Metal-Insulator-Metal Waveguides. Nano Letters, 2008, 8, 2925-2929.	4.5	93

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181	Surface plasmon polariton modes in a single-crystal Au nanoresonator fabricated using focused-ion-beam milling. Applied Physics Letters, 2008, 92, .	1.5	99
182	Photovoltaic effect in Si/SiO ₂ /Si heterostructures. , 2008, , .		0
183	All-optical octave-broad ultrafast switching of Si woodpile photonic band gap crystals. Physical Review B, 2008, 77, .	1.1	27
184	Luminescence properties of silicon nanocrystals in Al ₂ O ₃ fabricated at low temperature. , 2008, , .		1
185	An on-chip erbium doped three-photon upconversion silica microlaser emitting at green wavelengths. , 2008, , .		0
186	Ultrafast all-optical switching of 3D photonic band gap crystals. , 2007, , .		4
187	Plasmon-enhanced luminescence near noble-metal nanospheres: Comparison of exact theory and an improved Gersten and Nitzan model. Physical Review B, 2007, 76, .	1.1	302
188	Enhanced Nonlinear Optical Effects with a Tapered Plasmonic Waveguide. Nano Letters, 2007, 7, 334-337.	4.5	130
189	Experimental evidence for large dynamic effects on the plasmon dispersion of subwavelength metal nanoparticle waveguides. Physical Review B, 2007, 76, .	1.1	59
190	Plasmon-Enhanced Photoluminescence of Silicon Quantum Dots: Simulation and Experiment. Journal of Physical Chemistry C, 2007, 111, 13372-13377.	1.5	97
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192	Plasmonic Modes of Annular Nanoresonators Imaged by Spectrally Resolved Cathodoluminescence. Nano Letters, 2007, 7, 3612-3617.	4.5	67
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