Albert Polman

List of Publications by Year in Descending Order

367 papers	36,616 citations	91 h-index	183 g-index
391 ext. papers	40,348 ext. citations	6.5 avg, IF	7.87 L-index

#	Paper	IF	Citations
367	Directional quantum dot emission by soft-stamping on silicon Mie resonators.. *Nanoscale Advances*, **2022**, 4, 1088-1097	5.1	0
366	Spontaneous and stimulated electron-photon interactions in nanoscale plasmonic near fields. *Light: Science and Applications*, **2021**, 10, 82	16.7	14
365	Employing Cathodoluminescence for Nanothermometry and Thermal Transport Measurements in Semiconductor Nanowires. *ACS Nano*, **2021**,	16.7	4
364	Photonics for Photovoltaics: Advances and Opportunities. *ACS Photonics*, **2021**, 8, 61-70	6.3	26
363	Solving integral equations with inverse-designed metagratings at optical wavelengths **2021**,		1
362	Photon Statistics of Incoherent Cathodoluminescence with Continuous and Pulsed Electron Beams. *ACS Photonics*, **2021**, 8, 916-925	6.3	1
361	Near-Infrared Cathodoluminescence Polarimetry of a Plasmonic Vertical Split Ring Resonator. *Microscopy and Microanalysis*, **2021**, 27, 706-708	0.5	
360	Unlocking Higher Power Efficiencies in Luminescent Solar Concentrators through Anisotropic Luminophore Emission. *ACS Applied Materials & Interfaces*, **2021**, 13, 40742-40753	9.5	3
359	Phase-Resolved Surface Plasmon Scattering Probed by Cathodoluminescence Holography. *ACS Photonics*, **2020**, 7, 1476-1482	6.3	8
358	Dual-Polarization Analog 2D Image Processing with Nonlocal Metasurfaces. *ACS Photonics*, **2020**, 7, 1799-1805	6.3	26
357	Resonant Metagratings for Spectral and Angular Control of Light for Colored Rooftop Photovoltaics. *ACS Applied Energy Materials*, **2020**, 3, 3150-3156	6.1	7
356	Inverse designed metagratings for far-field integral equations solving **2020**,		1
355	Electron-Induced State Conversion in Diamond NV Centers Measured with Pump-Probe Cathodoluminescence Spectroscopy. *ACS Photonics*, **2020**, 7, 232-240	6.3	20
354	Electrons Generate Self-Complementary Broadband Vortex Light Beams Using Chiral Photon Sieves. *Nano Letters*, **2020**, 20, 5975-5981	11.5	6
353	Photovoltaics Reaching for the Shockley–Queisser Limit. *ACS Energy Letters*, **2020**, 5, 3029-3033	20.1	46
352	Nanoscale spatial limitations of large-area substrate conformal imprint lithography. *Nanotechnology*, **2019**, 30, 345301	3.4	18
351	Probing the Band Structure of Topological Silicon Photonic Lattices in the Visible Spectrum. *Physical Review Letters*, **2019**, 122, 117401	7.4	56

350	Combined Metagratings for Efficient Broad-Angle Scattering Metasurface. *ACS Photonics*, **2019**, 6, 1010-1017	6.3	27
349	Spatial Resolution of Coherent Cathodoluminescence Super-Resolution Microscopy. *ACS Photonics*, **2019**, 6, 1067-1072	6.3	15
348	Merging transformation optics with electron-driven photon sources. *Nature Communications*, **2019**, 10, 599	17.4	18
347	Electron-beam spectroscopy for nanophotonics. *Nature Materials*, **2019**, 18, 1158-1171	27	96
346	High-Index Dielectric Metasurfaces Performing Mathematical Operations. *Nano Letters*, **2019**, 19, 8418-8423	11.5	71
345	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, 38645-38660	3.3	5
344	Tunable plasmonic HfN nanoparticles and arrays. *Nanoscale*, **2019**, 11, 20252-20260	7.7	11
343	Energy-Momentum Cathodoluminescence Imaging of Anisotropic Directionality in Elliptical Aluminum Plasmonic Bullseye Antennas. *ACS Photonics*, **2019**, 6, 573-580	6.3	6
342	Complementary cathodoluminescence lifetime imaging configurations in a scanning electron microscope. *Ultramicroscopy*, **2019**, 197, 28-38	3.1	25
341	Efficient Green Emission from Wurtzite Al InP Nanowires. *Nano Letters*, **2018**, 18, 3543-3549	11.5	14
340	Nanoscale Relative Emission Efficiency Mapping Using Cathodoluminescence g Imaging. *Nano Letters*, **2018**, 18, 2288-2293	11.5	21
339	Correlative electron energy loss spectroscopy and cathodoluminescence spectroscopy on three-dimensional plasmonic split ring resonators. *Microscopy (Oxford, England)*, **2018**, 67, i40-i51	1.3	4
338	Nonlocal Metasurfaces for Optical Signal Processing. *Physical Review Letters*, **2018**, 121, 173004	7.4	136
337	Visible Light, Wide-Angle Graded Metasurface for Back Reflection. *ACS Photonics*, **2017**, 4, 228-235	6.3	54
336	Photovoltaics: Light-Trapping in Crystalline Silicon and Thin-Film Solar Cells by Nanostructured Optical Coatings **2017**, 163-180		6
335	Monocrystalline Nanopatterns Made by Nanocube Assembly and Epitaxy. *Advanced Materials*, **2017**, 29, 1701064	24	12
334	Optoelectronic Enhancement of Ultrathin CuIn1⊠GaxSe2 Solar Cells by Nanophotonic Contacts. *Advanced Optical Materials*, **2017**, 5, 1600637	8.1	25
333	Photon bunching reveals single-electron cathodoluminescence excitation efficiency in InGaN quantum wells. *Physical Review B*, **2017**, 96,	3.3	24

332	Efficient colored silicon solar modules using integrated resonant dielectric nanoscatterers. *Applied Physics Letters*, **2017**, 111, 073902	3.4	33
331	Large area nanoimprint by substrate conformal imprint lithography (SCIL). *Advanced Optical Technologies*, **2017**, 6,	0.9	29
330	Angle-resolved cathodoluminescence polarimetry on plasmonic nanostructures **2016**, 1152-1153		
329	Fabrication process of a coaxial plasmonic metamaterial. *Optical Materials Express*, **2016**, 6, 884	2.6	6
328	Combined electron energy-loss and cathodoluminescence spectroscopy on individual and composite plasmonic nanostructures. *Physical Review B*, **2016**, 93,	3.3	19
327	Generalized antireflection coatings for complex bulk metamaterials. *Physical Review B*, **2016**, 93,	3.3	4
326	Femtosecond plasmon and photon wave packets excited by a high-energy electron on a metal or dielectric surface. *Physical Review B*, **2016**, 94,	3.3	12
325	Thermodynamic theory of the plasmoelectric effect. *Scientific Reports*, **2016**, 6, 23283	4.9	19
324	Near-Infrared Spectroscopic Cathodoluminescence Imaging Polarimetry on Silicon Photonic Crystal Waveguides. *ACS Photonics*, **2016**, 3, 2112-2121	6.3	13
323	Time-resolved cathodoluminescence in a scanning electron microscope **2016**, 437-437		
322	Solution-Grown Silver Nanowire Ordered Arrays as Transparent Electrodes. *Advanced Materials*, **2016**, 28, 905-9	24	89
321	Nanowires: Solution-Grown Silver Nanowire Ordered Arrays as Transparent Electrodes (Adv. Mater. 5/2016). *Advanced Materials*, **2016**, 28, 976-976	24	2
320	Planar metal/dielectric single-periodic multilayer ultraviolet flat lens. *Optica*, **2016**, 3, 592	8.6	13
319	Direct imaging of hybridized eigenmodes in coupled silicon nanoparticles. *Optica*, **2016**, 3, 93	8.6	58
318	Angle-Resolved Cathodoluminescence Imaging Polarimetry. *ACS Photonics*, **2016**, 3, 147-154	6.3	55
317	Directional Emission from Leaky and Guided Modes in GaAs Nanowires Measured by Cathodoluminescence. *ACS Photonics*, **2016**, 3, 677-684	6.3	16
316	Plasmonic Scattering Back Reflector for Light Trapping in Flat Nano-Crystalline Silicon Solar Cells. *ACS Photonics*, **2016**, 3, 685-691	6.3	18
315	Surface plasmon polariton modes in coaxial metal-dielectric-metal waveguides. *New Journal of Physics*, **2016**, 18, 043016	2.9	3

314	Controlling magnetic and electric dipole modes in hollow silicon nanocylinders. *Optics Express*, **2016**, 24, 2047-64	3.3	53
313	Photovoltaic materials: Present efficiencies and future challenges. *Science*, **2016**, 352, aad4424	33.3	1192
312	Metal-Insulator-Semiconductor Nanowire Network Solar Cells. *Nano Letters*, **2016**, 16, 3689-95	11.5	22
311	Soft imprinted Ag nanowire hybrid electrodes on silicon heterojunction solar cells. *Nano Energy*, **2016**, 30, 398-406	17.1	13
310	Large-area soft-imprinted nanowire networks as light trapping transparent conductors. *Scientific Reports*, **2015**, 5, 11414	4.9	44
309	Dielectric Scattering Patterns for Efficient Light Trapping in Thin-Film Solar Cells. *Nano Letters*, **2015**, 15, 4846-52	11.5	54
308	Optimized Scattering Power Spectral Density of Photovoltaic Light-Trapping Patterns. *ACS Photonics*, **2015**, 2, 822-831	6.3	49
307	Nanophotonics: shrinking light-based technology. *Science*, **2015**, 348, 516-21	33.3	356
306	Plasmomechanical Resonators Based on Dimer Nanoantennas. *Nano Letters*, **2015**, 15, 3971-6	11.5	32
305	Nanoscale optical tomography with cathodoluminescence spectroscopy. *Nature Nanotechnology*, **2015**, 10, 429-36	28.7	74
304	Cathodoluminescence microscopy: Optical imaging and spectroscopy with deep-subwavelength resolution. *MRS Bulletin*, **2015**, 40, 359-365	3.2	31
303	Nanoscale Spatial Coherent Control over the Modal Excitation of a Coupled Plasmonic Resonator System. *Nano Letters*, **2015**, 15, 7666-70	11.5	31
302	Light Coupling and Trapping in Ultrathin Cu(In,Ga)Se2 Solar Cells Using Dielectric Scattering Patterns. *ACS Nano*, **2015**, 9, 9603-13	16.7	83
301	Optical properties of high-quality nanohole arrays in gold made using soft-nanoimprint lithography. *MRS Communications*, **2015**, 5, 547-553	2.7	5
300	Photoelectron imaging of modal interference in plasmonic whispering gallery cavities. *Optics Express*, **2015**, 23, 31619-26	3.3	13
299	Efficient nanorod-based amorphous silicon solar cells with advanced light trapping. *Journal of Applied Physics*, **2015**, 118, 185307	2.5	8
298	Azimuthally polarized cathodoluminescence from InP nanowires. *Applied Physics Letters*, **2015**, 107, 201110	3.3	7
297	Single-Step Soft-Imprinted Large-Area Nanopatterned Antireflection Coating. *Nano Letters*, **2015**, 15, 4223-8	11.5	72

296	Gallium plasmonics: deep subwavelength spectroscopic imaging of single and interacting gallium nanoparticles. *ACS Nano*, **2015**, 9, 2049-60	16.7	93
295	. *IEEE Journal of Photovoltaics*, **2015**, 5, 61-69	3.7	21
294	Effect of EVA Encapsulation on Antireflection Properties of Mie Nanoscatterers for c-Si Solar Cells. *IEEE Journal of Photovoltaics*, **2015**, 5, 559-564	3.7	12
293	Reply to 'On the thermodynamics of light trapping in solar cells'. *Nature Materials*, **2014**, 13, 104-5	27	4
292	Directional emission from a single plasmonic scatterer. *Nature Communications*, **2014**, 5, 3250	17.4	136
291	Experimental realization of a polarization-independent ultraviolet/visible coaxial plasmonic metamaterial. *Nano Letters*, **2014**, 14, 6356-60	11.5	12
290	Negative Refractive Index and Higher-Order Harmonics in Layered Metallodielectric Optical Metamaterials. *ACS Photonics*, **2014**, 1, 670-676	6.3	21
289	Optical properties of single plasmonic holes probed with local electron beam excitation. *ACS Nano*, **2014**, 8, 7350-8	16.7	39
288	Quantifying coherent and incoherent cathodoluminescence in semiconductors and metals. *Journal of Applied Physics*, **2014**, 115, 244307	2.5	36
287	Nanoscale Excitation Mapping of Plasmonic Patch Antennas. *ACS Photonics*, **2014**, 1, 1134-1143	6.3	21
286	Parallel Transduction of Nanomechanical Motion Using Plasmonic Resonators. *ACS Photonics*, **2014**, 1, 1181-1188	6.3	21
285	Light Trapping in Thin Crystalline Si Solar Cells Using Surface Mie Scatterers. *IEEE Journal of Photovoltaics*, **2014**, 4, 554-559	3.7	57
284	Nanophotonics. Plasmoelectric potentials in metal nanostructures. *Science*, **2014**, 346, 828-31	33.3	173
283	Resonant modes of single silicon nanocavities excited by electron irradiation. *ACS Nano*, **2013**, 7, 1689-98	16.7	68
282	Plasmonic light-trapping in a-Si:H solar cells by front-side Ag nanoparticle arrays: A benchmarking study. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 1571-1574	1.6	11
281	Al2O3/TiO2 nano-pattern antireflection coating with ultralow surface recombination. *Applied Physics Letters*, **2013**, 102, 233902	3.4	61
280	Experimental realization of an epsilon-near-zero metamaterial at visible wavelengths. *Nature Photonics*, **2013**, 7, 907-912	33.9	315
279	Solar steam nanobubbles. *ACS Nano*, **2013**, 7, 15-8	16.7	63

278	The planar parabolic optical antenna. *Nano Letters*, **2013**, 13, 188-93	11.5	30
277	Highly efficient GaAs solar cells by limiting light emission angle. *Light: Science and Applications*, **2013**, 2, e45-e45	16.7	219
276	Evolution of light-induced vapor generation at a liquid-immersed metallic nanoparticle. *Nano Letters*, **2013**, 13, 1736-42	11.5	346
275	Experimental verification of n = 0 structures for visible light. *Physical Review Letters*, **2013**, 110, 013902	7.4	165
274	Nanophotonic design principles for ultrahigh efficiency photovoltaics **2013**,		10
273	Plasmon nanomechanical coupling for nanoscale transduction. *Nano Letters*, **2013**, 13, 3293-7	11.5	59
272	Dielectric back scattering patterns for light trapping in thin-film Si solar cells. *Optics Express*, **2013**, 21, 20738-46	3.3	27
271	Designing dielectric resonators on substrates: combining magnetic and electric resonances. *Optics Express*, **2013**, 21, 26285-302	3.3	239
270	Deep-subwavelength imaging of the modal dispersion of light. *Nature Materials*, **2012**, 11, 781-7	27	107
269	Dispersive ground plane core-shell type optical monopole antennas fabricated with electron beam induced deposition. *ACS Nano*, **2012**, 6, 8226-32	16.7	14
268	Prospects of near-field plasmonic absorption enhancement in semiconductor materials using embedded Ag nanoparticles. *Optics Express*, **2012**, 20 Suppl 5, A641-54	3.3	97
267	Plasmonic light trapping in thin-film Si solar cells. *Journal of Optics (United Kingdom)*, **2012**, 14, 024002	1.7	250
266	Transparent conducting silver nanowire networks. *Nano Letters*, **2012**, 12, 3138-44	11.5	437
265	Broadband omnidirectional antireflection coating based on subwavelength surface Mie resonators. *Nature Communications*, **2012**, 3, 692	17.4	601
264	Deep subwavelength spatial characterization of angular emission from single-crystal Au plasmonic ridge nanoantennas. *ACS Nano*, **2012**, 6, 1742-50	16.7	42
263	Water-Based Assembly and Purification of Plasmon-Coupled Gold Nanoparticle Dimers and Trimers. *International Journal of Optics*, **2012**, 2012, 1-5	0.9	9
262	Photonic design principles for ultrahigh-efficiency photovoltaics. *Nature Materials*, **2012**, 11, 174-7	27	632
261	Plasmonic excitation and manipulation with an electron beam. *MRS Bulletin*, **2012**, 37, 752-760	3.2	33

260	Polarization-sensitive cathodoluminescence Fourier microscopy. *Optics Express*, **2012**, 20, 18679-91	3.3	18
259	Mode coupling by plasmonic surface scatterers in thin-film silicon solar cells. *Applied Physics Letters*, **2012**, 101, 221110	3.4	52
258	Optical impedance matching using coupled plasmonic nanoparticle arrays. *Nano Letters*, **2011**, 11, 1760-5	11.5	179
257	Directional emission from plasmonic Yagi-Uda antennas probed by angle-resolved cathodoluminescence spectroscopy. *Nano Letters*, **2011**, 11, 3779-84	11.5	155
256	Plasmonic whispering gallery cavities as optical nanoantennas. *Nano Letters*, **2011**, 11, 5524-30	11.5	32
255	Optical and topological characterization of gold nanoparticle dimers linked by a single DNA double strand. *Nano Letters*, **2011**, 11, 5060-5	11.5	99
254	Imaging the hidden modes of ultrathin plasmonic strip antennas by cathodoluminescence. *Nano Letters*, **2011**, 11, 4265-9	11.5	44
253	Resonant SPP modes supported by discrete metal nanoparticles on high-index substrates. *Optics Express*, **2011**, 19 Suppl 2, A146-56	3.3	56
252	Controlling Fano lineshapes in plasmon-mediated light coupling into a substrate. *Optics Express*, **2011**, 19 Suppl 3, A303-11	3.3	56
251	Optimized spatial correlations for broadband light trapping nanopatterns in high efficiency ultrathin film a-Si:H solar cells. *Nano Letters*, **2011**, 11, 4239-45	11.5	306
250	Single-photon generation by electron beams. *Nano Letters*, **2011**, 11, 5099-103	11.5	23
249	Resonant nano-antennas for light trapping in plasmonic solar cells. *Journal Physics D: Applied Physics*, **2011**, 44, 185101	3	46
248	Modeling light trapping in nanostructured solar cells. *ACS Nano*, **2011**, 5, 10055-64	16.7	183
247	Improved performance of polarization-stable VCSELs by monolithic sub-wavelength gratings produced by soft nano-imprint lithography. *Nanotechnology*, **2011**, 22, 505201	3.4	32
246	Microphotonic parabolic light directors fabricated by two-photon lithography. *Applied Physics Letters*, **2011**, 99, 151113	3.4	52
245	A copper negative index metamaterial in the visible/near-infrared. *Applied Physics Letters*, **2011**, 99, 161108	3.4	10
244	Controlled spontaneous emission in plasmonic whispering gallery antennas. *Applied Physics Letters*, **2011**, 99, 231112	3.4	11
243	Angle-resolved cathodoluminescence spectroscopy. *Applied Physics Letters*, **2011**, 99, 143103	3.4	62

242	Light Trapping in Plasmonic Solar Cells **2011**,		3
241	A silicon-based electrical source of surface plasmon polaritons. *Nature Materials*, **2010**, 9, 21-5	27	174
240	Plasmonics for improved photovoltaic devices. *Nature Materials*, **2010**, 9, 205-13	27	6453
239	A single-layer wide-angle negative-index metamaterial at visible frequencies. *Nature Materials*, **2010**, 9, 407-12	27	198
238	Plasmonic anti-reflection coating for thin film solar cells **2010**,		1
237	Plasmonic nanofocusing in a dielectric wedge. *Nano Letters*, **2010**, 10, 3665-9	11.5	44
236	Negative refractive index in coaxial plasmon waveguides. *Optics Express*, **2010**, 18, 12770-8	3.3	32
235	Light trapping in ultrathin plasmonic solar cells. *Optics Express*, **2010**, 18 Suppl 2, A237-45	3.3	494
234	Plasmonic light trapping for thin film A-SI:H solar cells **2010**,		3
233	Broadband Purcell enhancement in plasmonic ring cavities. *Physical Review B*, **2010**, 82,	3.3	60
232	Asymmetry in photocurrent enhancement by plasmonic nanoparticle arrays located on the front or on the rear of solar cells. *Applied Physics Letters*, **2010**, 96, 033113	3.4	129
231	Three-dimensional negative index of refraction at optical frequencies by coupling plasmonic waveguides. *Physical Review Letters*, **2010**, 105, 223901	7.4	79
230	Plasmonics for improved photovoltaic devices **2010**, 1-11		21
229	Ultrasmall mode volume plasmonic nanodisk resonators. *Nano Letters*, **2010**, 10, 1537-41	11.5	159
228	Dispersion of metal-insulator-metal plasmon polaritons probed by cathodoluminescence imaging spectroscopy. *Physical Review B*, **2009**, 80,	3.3	39
227	Enhanced spontaneous emission rate in annular plasmonic nanocavities. *Applied Physics Letters*, **2009**, 95, 263106	3.4	19
226	Fabry□Pérot resonators for surface plasmon polaritons probed by cathodoluminescence. *Applied Physics Letters*, **2009**, 94, 183104	3.4	30
225	Improved red-response in thin film a-Si:H solar cells with soft-imprinted plasmonic back reflectors. *Applied Physics Letters*, **2009**, 95, 183503	3.4	225

224	Efficient generation of propagating plasmons by electron beams. *Nano Letters*, **2009**, 9, 1176-81	11.5	63
223	On-chip green silica upconversion microlaser. *Optics Letters*, **2009**, 34, 482-4	3	38
222	How grooves reflect and confine surfaceplasmon polaritons. *Optics Express*, **2009**, 17, 10385-92	3.3	48
221	Field enhancement in metallic subwavelength aperture arrays probed by erbium upconversion luminescence. *Optics Express*, **2009**, 17, 14586-98	3.3	83
220	Plasmon dispersion in coaxial waveguides from single-cavity optical transmission measurements. *Nano Letters*, **2009**, 9, 2832-7	11.5	81
219	Modal decomposition of surface--plasmon whispering gallery resonators. *Nano Letters*, **2009**, 9, 3147-50	11.5	69
218	Tunable light trapping for solar cells using localized surface plasmons. *Journal of Applied Physics*, **2009**, 105, 114310	2.5	403
217	Nanowire plasmon excitation by adiabatic mode transformation. *Physical Review Letters*, **2009**, 102, 203904	7.4	193
216	Strong luminescence quantum-efficiency enhancement near prolate metal nanoparticles: Dipolar versus higher-order modes. *Journal of Applied Physics*, **2009**, 105, 044302	2.5	50
215	Local density of states, spectrum, and far-field interference of surface plasmon polaritons probed by cathodoluminescence. *Physical Review B*, **2009**, 79,	3.3	118
214	Purcell-factor-enhanced scattering from Si nanocrystals in an optical microcavity. *Physical Review Letters*, **2009**, 103, 027406	7.4	88
213	Designing periodic arrays of metal nanoparticles for light-trapping applications in solar cells. *Applied Physics Letters*, **2009**, 95, 053115	3.4	185
212	Design principles for particle plasmon enhanced solar cells. *Applied Physics Letters*, **2008**, 93, 191113	3.4	655
211	Loss mechanisms of surface plasmon polaritons on gold probed by cathodoluminescence imaging spectroscopy.. *Applied Physics Letters*, **2008**, 93, 113110	3.4	94
210	Optical cavity modes in gold shell colloids. *Journal of Applied Physics*, **2008**, 103, 123105	2.5	37
209	Applied physics. Plasmonics applied. *Science*, **2008**, 322, 868-9	33.3	255
208	Nanofocusing in laterally tapered plasmonic waveguides. *Optics Express*, **2008**, 16, 45-57	3.3	188
207	Are negative index materials achievable with surface plasmon waveguides? A case study of three plasmonic geometries. *Optics Express*, **2008**, 16, 19001-17	3.3	80

206	Plasmonic solar cells. *Optics Express*, **2008**, 16, 21793-800	3.3	1198
205	Optical Properties of Spherical and Oblate Spheroidal Gold Shell Colloids. *Journal of Physical Chemistry C*, **2008**, 112, 4146-4150	3.8	33
204	Plasmon-based nanolenses assembled on a well-defined DNA template. *Journal of the American Chemical Society*, **2008**, 130, 2750-1	16.4	132
203	Near-field visualization of strongly confined surface plasmon polaritons in metal-insulator-metal waveguides. *Nano Letters*, **2008**, 8, 2925-9	11.5	84
202	Surface plasmon polariton modes in a single-crystal Au nanoresonator fabricated using focused-ion-beam milling. *Applied Physics Letters*, **2008**, 92, 083110	3.4	91
201	All-optical octave-broad ultrafast switching of Si woodpile photonic band gap crystals. *Physical Review B*, **2008**, 77,	3.3	23
200	Luminescence properties of silicon nanocrystals in Al2O3 fabricated at low temperature **2008**,		1
199	Plasmonic modes of annular nanoresonators imaged by spectrally resolved cathodoluminescence. *Nano Letters*, **2007**, 7, 3612-7	11.5	56
198	Programmable nanolithography with plasmon nanoparticle arrays. *Nano Letters*, **2007**, 7, 745-9	11.5	39
197	Tunable Nanoscale Localization of Energy on Plasmon Particle Arrays. *Nano Letters*, **2007**, 7, 2004-2008	11.5	103
196	Direct observation of plasmonic modes in au nanowires using high-resolution cathodoluminescence spectroscopy. *Nano Letters*, **2007**, 7, 2843-6	11.5	238
195	Ultrafast all-optical switching of 3D photonic band gap crystals **2007**,		3
194	Plasmon-enhanced luminescence near noble-metal nanospheres: Comparison of exact theory and an improved Gersten and Nitzan model. *Physical Review B*, **2007**, 76,	3.3	273
193	Enhanced nonlinear optical effects with a tapered plasmonic waveguide. *Nano Letters*, **2007**, 7, 334-7	11.5	120
192	Experimental evidence for large dynamic effects on the plasmon dispersion of subwavelength metal nanoparticle waveguides. *Physical Review B*, **2007**, 76,	3.3	55
191	Plasmon-Enhanced Photoluminescence of Silicon Quantum Dots: Simulation and Experiment. *Journal of Physical Chemistry C*, **2007**, 111, 13372-13377	3.8	89
190	Ultrafast optical switching of three-dimensional Si inverse opal photonic band gap crystals. *Journal of Applied Physics*, **2007**, 102, 053111	2.5	16
189	Fabrication and characterization of erbium-doped toroidal microcavity lasers. *Journal of Applied Physics*, **2006**, 99, 083103	2.5	15

188	Erbium luminescence imaging of infrared surface plasmon polaritons. *Applied Physics Letters*, **2006**, 88, 121121	3.4	14
187	Excitation of surface plasmons at a SiO2–Ag interface by silicon quantum dots: Experiment and theory. *Physical Review B*, **2006**, 73,	3.3	43
186	Direct imaging of propagation and damping of near-resonance surface plasmon polaritons using cathodoluminescence spectroscopy. *Applied Physics Letters*, **2006**, 88, 221111	3.4	85
185	Size-dependent ion-beam-induced anisotropic plastic deformation at the nanoscale by nonhydrostatic capillary stresses. *Physical Review B*, **2006**, 74,	3.3	20
184	Polarization-selective plasmon-enhanced silicon quantum-dot luminescence. *Nano Letters*, **2006**, 6, 2622-5	11.5	187
183	Demonstration of an erbium-doped microdisk laser on a silicon chip. *Physical Review A*, **2006**, 74,	2.6	140
182	Spectral tuning of plasmon-enhanced silicon quantum dot luminescence. *Applied Physics Letters*, **2006**, 88, 131109	3.4	170
181	Plasmon slot waveguides: Towards chip-scale propagation with subwavelength-scale localization. *Physical Review B*, **2006**, 73,	3.3	863
180	Plasmon-enhanced erbium luminescence. *Applied Physics Letters*, **2006**, 89, 211107	3.4	131
179	Complex response and polariton-like dispersion splitting in periodic metal nanoparticle chains. *Physical Review B*, **2006**, 74,	3.3	167
178	Photoluminescence quantum efficiency of dense silicon nanocrystal ensembles in SiO2. *Physical Review B*, **2006**, 73,	3.3	101
177	Anisotropic deformation of metallo-dielectric core–shell colloids under MeV ion irradiation. *Nuclear Instruments & Methods in Physics Research B*, **2006**, 242, 523-529	1.2	64
176	Erbium-implanted silica microsphere laser. *Nuclear Instruments & Methods in Physics Research B*, **2006**, 242, 182-185	1.2	29
175	Depth-resolved nanostructure and refractive index of borosilicate glass doped with Ag nanocrystals. *Optical Materials*, **2006**, 29, 326-331	3.3	4
174	Combined optical tweezers/ion beam technique to tune colloidal masks for nanolithography. *Nano Letters*, **2005**, 5, 1175-9	11.5	45
173	Highly confined electromagnetic fields in arrays of strongly coupled Ag nanoparticles. *Physical Review B*, **2005**, 71,	3.3	209
172	Planar metal plasmon waveguides: frequency-dependent dispersion, propagation, localization, and loss beyond the free electron model. *Physical Review B*, **2005**, 72,	3.3	340
171	Quenching of Si nanocrystal photoluminescence by doping with gold or phosphorous. *Journal of Luminescence*, **2005**, 114, 137-144	3.8	44

170	Angle-Dependent Extinction of Anisotropic Silica/Au Core/Shell Colloids Made via Ion Irradiation. *Advanced Materials*, **2005**, 17, 1484-1488	24	36
169	Plasmonics: optics at the nanoscale. *Materials Today*, **2005**, 8, 56	21.8	48
168	The New pn Junction: Plasmonics Enables Photonic Access to the Nanoworld. *MRS Bulletin*, **2005**, 30, 385-389	3.2	74
167	Fster transfer and the local optical density of states in erbium-doped silica. *Physical Review B*, **2005**, 71,	3.3	79
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