Peter Nordlander

List of Publications by Year
in descending order

432 papers	75,609 citations	419 132 h-index	507 268 g-index
437 all docs	437 docs citations	437 times ranked	40414 citing authors

#	Article	IF	Citations
1	A Hybridization Model for the Plasmon Response of Complex Nanostructures. Science, 2003, 302, 419-422.	12.6	3,531
2	The Fano resonance in plasmonic nanostructures and metamaterials. Nature Materials, 2010, 9, 707-715.	27.5	3,352
3	Plasmons in Strongly Coupled Metallic Nanostructures. Chemical Reviews, 2011, 111, 3913-3961.	47.7	2,663
4	Plasmon-induced hot carrier science and technology. Nature Nanotechnology, 2015, 10, 25-34.	31.5	2,564
5	Photodetection with Active Optical Antennas. Science, 2011, 332, 702-704.	12.6	1,760
6	Plasmon Hybridization in Nanoparticle Dimers. Nano Letters, 2004, 4, 899-903.	9.1	1,538
7	Unraveling Nanotubes: Field Emission from an Atomic Wire. Science, 1995, 269, 1550-1553.	12.6	1,525
8	Self-Assembled Plasmonic Nanoparticle Clusters. Science, 2010, 328, 1135-1138.	12.6	1,362
9	Hot Electrons Do the Impossible: Plasmon-Induced Dissociation of H₂ on Au. Nano Letters, 2013, 13, 240-247.	9.1	1,332
10	Surface-Enhanced Raman Scattering from Individual Au Nanoparticles and Nanoparticle Dimer Substrates. Nano Letters, 2005, 5, 1569-1574.	9.1	1,070
11	Solar Vapor Generation Enabled by Nanoparticles. ACS Nano, 2013, 7, 42-49.	14.6	1,053
12	Aluminum for Plasmonics. ACS Nano, 2014, 8, 834-840.	14.6	1,018
13	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	14.6	976
14	Symmetry Breaking in Plasmonic Nanocavities: Subradiant LSPR Sensing and a Tunable Fano Resonance. Nano Letters, 2008, 8, 3983-3988.	9.1	954
15	Plasmon Resonances of a Gold Nanostar. Nano Letters, 2007, 7, 729-732.	9.1	838
16	Bridging quantum and classical plasmonics with a quantum-corrected model. Nature Communications, 2012, 3, 825.	12.8	797
17	Quantum Description of the Plasmon Resonances of a Nanoparticle Dimer. Nano Letters, 2009, 9, 887-891.	9.1	781
18	Quantifying hot carrier and thermal contributions in plasmonic photocatalysis. Science, 2018, 362, 69-72.	12.6	756

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19	Nanorice:â€‰ A Hybrid Plasmonic Nanostructure. Nano Letters, 2006, 6, 827-832.	9.1	742
20	Metallic Nanoparticle Arrays: A Common Substrate for Both Surface-Enhanced Raman Scattering and Surface-Enhanced Infrared Absorption. ACS Nano, 2008, 2, 707-718.	14.6	730
21	Fano Resonances in Individual Coherent Plasmonic Nanocavities. Nano Letters, 2009, 9, 1663-1667.	9.1	665
22	Substrate-Induced Fano Resonances of a Plasmonic Nanocube: A Route to Increased-Sensitivity Localized Surface Plasmon Resonance Sensors Revealed. Nano Letters, 2011, 11, 1657-1663.	9.1	649
23	Plasmon-Induced Hot Carriers in Metallic Nanoparticles. ACS Nano, 2014, 8, 7630-7638.	14.6	638
24	Plasmonic Nanostructures:â€‰ Artificial Molecules. Accounts of Chemical Research, 2007, 40, 53-62.	15.6	635
25	Gated Tunability and Hybridization of Localized Plasmons in Nanostructured Graphene. ACS Nano, 2013, 7, 2388-2395.	14.6	622
26	Plasmonic colour generation. Nature Reviews Materials, 2017, 2, .	48.7	620
27	Graphene-Antenna Sandwich Photodetector. Nano Letters, 2012, 12, 3808-3813.	9.1	615
28	Quantum mechanical effects in plasmonic structures with subnanometre gaps. Nature Communications, 2016, 7, 11495.	12.8	605
29	Fano Resonances in Plasmonic Nanoclusters: Geometrical and Chemical Tunability. Nano Letters, 2010, 10, 3184-3189.	9.1	601
30	Active Tunable Absorption Enhancement with Graphene Nanodisk Arrays. Nano Letters, 2014, 14, 299-304.	9.1	565
31	Narrowband photodetection in the near-infrared with a plasmon-induced hot electron device. Nature Communications, 2013, 4, 1643.	12.8	552
32	Plexcitonic Nanoparticles: Plasmonâˆ’Exciton Coupling in Nanoshellâˆ’J-Aggregate Complexes. Nano Letters, 2008, 8, 3481-3487.	9.1	523
33	Plasmonic Hot Electron Induced Structural Phase Transition in a MoS₂ Monolayer. Advanced Materials, 2014, 26, 6467-6471.	21.0	516
34	Plasmon hybridization in spherical nanoparticles. Journal of Chemical Physics, 2004, 120, 5444-5454.	3.0	498
35	Aluminum Plasmonic Nanoantennas. Nano Letters, 2012, 12, 6000-6004.	9.1	497
36	Tunability of Subradiant Dipolar and Fano-Type Plasmon Resonances in Metallic Ring/Disk Cavities: Implications for Nanoscale Optical Sensing. ACS Nano, 2009, 3, 643-652.	14.6	469

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37	Light-driven methane dry reforming with single atomic site antenna-reactor plasmonic photocatalysts. Nature Energy, 2020, 5, 61-70.	39.5	466
38	Close Encounters between Two Nanoshells. Nano Letters, 2008, 8, 1212-1218.	9.1	462
39	Hot-Electron-Induced Dissociation of H₂on Gold Nanoparticles Supported on SiO₂. Journal of the American Chemical Society, 2014, 136, 64-67.	13.7	458
40	Near-Field Mediated Plexcitonic Coupling and Giant Rabi Splitting in Individual Metallic Dimers. Nano Letters, 2013, 13, 3281-3286.	9.1	445
41	Plasmonic Nanoclusters: Near Field Properties of the Fano Resonance Interrogated with SERS. Nano Letters, 2012, 12, 1660-1667.	9.1	442
42	Quantum Plasmonics: Nonlinear Effects in the Field Enhancement of a Plasmonic Nanoparticle Dimer. Nano Letters, 2012, 12, 1333-1339.	9.1	424
43	Heterodimers: Plasmonic Properties of Mismatched Nanoparticle Pairs. ACS Nano, 2010, 4, 819-832.	14.6	422
44	Compact solar autoclave based on steam generation using broadband light-harvesting nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11677-11681.	7.1	421
45	Substrates Matter: Influence of an Adjacent Dielectric on an Individual Plasmonic Nanoparticle. Nano Letters, 2009, 9, 2188-2192.	9.1	414
46	Hydrogen adsorption on metal surfaces. Surface Science, 1984, 136, 59-81.	1.9	400
47	Evolution of Light-Induced Vapor Generation at a Liquid-Immersed Metallic Nanoparticle. Nano Letters, 2013, 13, 1736-1742.	9.1	394
48	Experimental Realization of Subradiant, Superradiant, and Fano Resonances in Ring/Disk Plasmonic Nanocavities. ACS Nano, 2010, 4, 1664-1670.	14.6	390
49	Heterometallic antennaâˆ’reactor complexes for photocatalysis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8916-8920.	7.1	381
50	Nanoparticles Heat through Light Localization. Nano Letters, 2014, 14, 4640-4645.	9.1	379
51	Plasmon-Induced Doping of Graphene. ACS Nano, 2012, 6, 10222-10228.	14.6	356
52	Quantum Plexcitonics: Strongly Interacting Plasmons and Excitons. Nano Letters, 2011, 11, 2318-2323.	9.1	354
53	Nanophotonics-enabled solar membrane distillation for off-grid water purification. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6936-6941.	7.1	348
54	Fano-like Interference in Self-Assembled Plasmonic Quadrumer Clusters. Nano Letters, 2010, 10, 4680-4685.	9.1	343

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55	A Plasmonic Fano Switch. Nano Letters, 2012, 12, 4977-4982.	9.1	342
56	Magneticâˆ'Plasmonic Coreâˆ'Shell Nanoparticles. ACS Nano, 2009, 3, 1379-1388.	14.6	337
57	Light-Induced Release of DNA from Gold Nanoparticles: Nanoshells and Nanorods. Journal of the American Chemical Society, 2011, 133, 12247-12255.	13.7	334
58	Plasmon Hybridization in Nanoparticles near Metallic Surfaces. Nano Letters, 2004, 4, 2209-2213.	9.1	332
59	Electron Energy-Loss Spectroscopy (EELS) of Surface Plasmons in Single Silver Nanoparticles and Dimers: Influence of Beam Damage and Mapping of Dark Modes. ACS Nano, 2009, 3, 3015-3022.	14.6	322
60	On the Energy Shift between Near-Field and Far-Field Peak Intensities in Localized Plasmon Systems. Nano Letters, 2011, 11, 1280-1283.	9.1	321
61	Distinguishing between plasmon-induced and photoexcited carriers in a device geometry. Nature Communications, 2015, 6, 7797.	12.8	311
62	Plasmon-induced selective carbon dioxide conversion on earth-abundant aluminum-cuprous oxide antenna-reactor nanoparticles. Nature Communications, 2017, 8, 27.	12.8	308
63	Mechanisms of Fano Resonances in Coupled Plasmonic Systems. ACS Nano, 2013, 7, 4527-4536.	14.6	304
64	Fano Resonances in Plasmonic Nanoparticle Aggregates. Journal of Physical Chemistry A, 2009, 113, 4028-4034.	2.5	302
65	Optical Properties of Metallodielectric Nanostructures Calculated Using the Finite Difference Time Domain Method. Journal of Physical Chemistry B, 2004, 108, 17740-17747.	2.6	296
66	Electromigrated Nanoscale Gaps for Surface-Enhanced Raman Spectroscopy. Nano Letters, 2007, 7, 1396-1400.	9.1	295
67	Aluminum Nanocrystals as a Plasmonic Photocatalyst for Hydrogen Dissociation. Nano Letters, 2016, 16, 1478-1484.	9.1	294
68	Fanoshells: Nanoparticles with Built-in Fano Resonances. Nano Letters, 2010, 10, 2694-2701.	9.1	288
69	Embedding Plasmonic Nanostructure Diodes Enhances Hot Electron Emission. Nano Letters, 2013, 13, 1687-1692.	9.1	283
70	Symmetry breaking in individual plasmonic nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10856-10860.	7.1	270
71	Simultaneous Measurements of Electronic Conduction and Raman Response in Molecular Junctions. Nano Letters, 2008, 8, 919-924.	9.1	270
72	Manipulating Coherent Plasmonâ€"Exciton Interaction in a Single Silver Nanorod on Monolayer WSe₂. Nano Letters, 2017, 17, 3809-3814.	9.1	270

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73	Vivid, full-color aluminum plasmonic pixels. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14348-14353.	7.1	269
74	Polarization Dependence of Surface-Enhanced Raman Scattering in Gold Nanoparticleâ˜'Nanowire Systems. Nano Letters, 2008, 8, 2497-2502.	9.1	268
75	Quantum Dot-Based Local Field Imaging Reveals Plasmon-Based Interferometric Logic in Silver Nanowire Networks. Nano Letters, 2011, 11, 471-475.	9.1	267
76	Branched Silver Nanowires as Controllable Plasmon Routers. Nano Letters, 2010, 10, 1950-1954.	9.1	264
77	Coherent anti-Stokes Raman scattering with single-molecule sensitivity using a plasmonic Fano resonance. Nature Communications, 2014, 5, 4424.	12.8	252
78	Electronic Structure and Optical Properties of Gold Nanoshells. Nano Letters, 2003, 3, 1411-1415.	9.1	248
79	Structural Tunability of the Plasmon Resonances in Metallic Nanoshells. Nano Letters, 2003, 3, 543-547.	9.1	245
80	Plasmon Modes of Nanosphere Trimers and Quadrumers. Journal of Physical Chemistry B, 2006, 110, 12302-12310.	2.6	236
81	Two-Dimensional Active Tuning of an Aluminum Plasmonic Array for Full-Spectrum Response. Nano Letters, 2017, 17, 6034-6039.	9.1	235
82	Fan-Shaped Gold Nanoantennas above Reflective Substrates for Surface-Enhanced Infrared Absorption (SEIRA). Nano Letters, 2015, 15, 1272-1280.	9.1	227
83	Chiral Surface Plasmon Polaritons on Metallic Nanowires. Physical Review Letters, 2011, 107, 096801.	7.8	225
84	Quantum Plasmonics: Optical Properties and Tunability of Metallic Nanorods. ACS Nano, 2010, 4, 5269-5276.	14.6	224
85	Energy shifts and broadening of atomic levels near metal surfaces. Physical Review B, 1990, 42, 5564-5578.	3.2	223
86	Optical Spectroscopy of Conductive Junctions in Plasmonic Cavities. Nano Letters, 2010, 10, 3090-3095.	9.1	221
87	Shedding light on dark plasmons in gold nanorings. Chemical Physics Letters, 2008, 458, 262-266.	2.6	215
88	Nanosphere-in-a-Nanoshell: A Simple Nanomatryushka. Journal of Physical Chemistry C, 2010, 114, 7378-7383.	3.1	214
89	Finite-difference Time-domain Studies of the Optical Properties of Nanoshell Dimers. Journal of Physical Chemistry B, 2005, 109, 10042-10051.	2.6	213
90	Surface-Enhanced Infrared Absorption Using Individual Cross Antennas Tailored to Chemical Moieties. Journal of the American Chemical Society, 2013, 135, 3688-3695.	13.7	212

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91	Effects of Symmetry Breaking and Conductive Contact on the Plasmon Coupling in Gold Nanorod Dimers. ACS Nano, 2010, 4, 4657-4666.	14.6	211
92	Nanoparticle-Mediated Coupling of Light into a Nanowire. Nano Letters, 2007, 7, 2346-2350.	9.1	210
93	Surface enhanced infrared absorption (SEIRA) spectroscopy on nanoshell aggregate substrates. Chemical Physics Letters, 2008, 452, 115-119.	2.6	210
94	Remote-Excitation Surface-Enhanced Raman Scattering Using Propagating Ag Nanowire Plasmons. Nano Letters, 2009, 9, 2049-2053.	9.1	209
95	Fano Resonant Aluminum Nanoclusters for Plasmonic Colorimetric Sensing. ACS Nano, 2015, 9, 10628-10636.	14.6	209
96	Unidirectional Broadband Light Emission from Supported Plasmonic Nanowires. Nano Letters, 2011, 11, 706-711.	9.1	205
97	Designing and Deconstructing the Fano Lineshape in Plasmonic Nanoclusters. Nano Letters, 2012, 12, 1058-1062.	9.1	205
98	Energy Shifts and Broadening of Excited Hydrogen-Atom Levels in the Vicinity of a Metal Surface. Physical Review Letters, 1988, 61, 990-993.	7.8	203
99	Balancing Near-Field Enhancement, Absorption, and Scattering for Effective Antennaâ€“Reactor Plasmonic Photocatalysis. Nano Letters, 2017, 17, 3710-3717.	9.1	202
100	Efficient dielectric function for FDTD simulation of the optical properties of silver and gold nanoparticles. Chemical Physics Letters, 2007, 446, 115-118.	2.6	201
101	Robust Subnanometric Plasmon Ruler by Rescaling of the Nonlocal Optical Response. Physical Review Letters, 2013, 110, 263901.	7.8	198
102	Alâ€“Pd Nanodisk Heterodimers as Antennaâ€“Reactor Photocatalysts. Nano Letters, 2016, 16, 6677-6682.	9.1	196
103	Influence of dielectric function properties on the optical response of plasmon resonant metallic nanoparticles. Chemical Physics Letters, 2004, 399, 167-171.	2.6	190
104	Removing a Wedge from a Metallic Nanodisk Reveals a Fano Resonance. Nano Letters, 2011, 11, 4475-4479.	9.1	190
105	Coherent Fano resonances in a plasmonic nanocluster enhance optical four-wave mixing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9215-9219.	7.1	190
106	Active Light Control of the MoS₂ Monolayer Exciton Binding Energy. ACS Nano, 2015, 9, 10158-10164.	14.6	190
107	Fluorescence Enhancement of Molecules Inside a Gold Nanomatryoshka. Nano Letters, 2014, 14, 2926-2933.	9.1	188
108	Nanogapped Au Antennas for Ultrasensitive Surface-Enhanced Infrared Absorption Spectroscopy. Nano Letters, 2017, 17, 5768-5774.	9.1	187

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109	Breaking individual chemical bonds via STM-induced excitations. Surface Science, 1996, 363, 368-377.	1.9	182
110	Colorâ€Selective and CMOSâ€Compatible Photodetection Based on Aluminum Plasmonics. Advanced Materials, 2014, 26, 6318-6323.	21.0	178
111	Derivation of a master equation for charge-transfer processes in atom-surface collisions. Physical Review B, 1991, 43, 2541-2557.	3.2	174
112	Aluminum Nanocrystals: A Sustainable Substrate for Quantitative SERS-Based DNA Detection. Nano Letters, 2017, 17, 5071-5077.	9.1	173
113	Aluminum Nanocrystals. Nano Letters, 2015, 15, 2751-2755.	9.1	169
114	Three-Dimensional Plasmonic Nanoclusters. Nano Letters, 2013, 13, 4399-4403.	9.1	168
115	Porous Au Nanoparticles with Tunable Plasmon Resonances and Intense Field Enhancements for Single-Particle SERS. Journal of Physical Chemistry Letters, 2014, 5, 370-374.	4.6	166
116	The effect of a dielectric core and embedding medium on the polarizability of metallic nanoshells. Chemical Physics Letters, 2002, 360, 325-332.	2.6	165
117	Controlled Texturing Modifies the Surface Topography and Plasmonic Properties of Au Nanoshells. Journal of Physical Chemistry B, 2005, 109, 11083-11087.	2.6	163
118	Tunable Plasmonic Nanoparticles with Catalytically Active High-Index Facets. Nano Letters, 2014, 14, 3674-3682.	9.1	153
119	High Chromaticity Aluminum Plasmonic Pixels for Active Liquid Crystal Displays. ACS Nano, 2016, 10, 1108-1117.	14.6	153
120	A classical treatment of optical tunneling in plasmonic gaps: extending the quantum corrected model to practical situations. Faraday Discussions, 2015, 178, 151-183.	3.2	151
121	Plasmons in the Metallic Nanoparticleâˆ’Film System as a Tunable Impurity Problem. Nano Letters, 2005, 5, 2009-2013.	9.1	149
122	A single molecule immunoassay by localized surface plasmon resonance. Nanotechnology, 2010, 21, 255503.	2.6	149
123	Quantum effects and nonlocality in strongly coupled plasmonic nanowire dimers. Optics Express, 2013, 21, 27306.	3.4	149
124	Pronounced Linewidth Narrowing of an Aluminum Nanoparticle Plasmon Resonance by Interaction with an Aluminum Metallic Film. Nano Letters, 2015, 15, 6946-6951.	9.1	149
125	The Surprising <i>in Vivo</i> Instability of Near-IR-Absorbing Hollow Auâ€"Ag Nanoshells. ACS Nano, 2014, 8, 3222-3231.	14.6	148
126	Multipolar Plasmon Resonances in Individual Ag Nanorice. ACS Nano, 2010, 4, 2649-2654.	14.6	146

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127	From tunable core-shell nanoparticles to plasmonic drawbridges: Active control of nanoparticle optical properties. Science Advances, 2015, 1, e1500988.	10.3	146
128	Correlation between Incident and Emission Polarization in Nanowire Surface Plasmon Waveguides. Nano Letters, 2010, 10, 1831-1835.	9.1	144
129	Plasmonic nanoclusters: a path towards negative-index metafluids. Optics Express, 2007, 15, 14129.	3.4	143
130	Plasmonic Focusing in Symmetry Broken Nanocorrals. Nano Letters, 2011, 11, 893-897.	9.1	141
131	Directional Light Emission from Propagating Surface Plasmons of Silver Nanowires. Nano Letters, 2009, 9, 4383-4386.	9.1	139
132	Hot Hole Photoelectrochemistry on Au@SiO₂@Au Nanoparticles. Journal of Physical Chemistry Letters, 2017, 8, 2060-2067.	4.6	137
133	DNA-Enabled Self-Assembly of Plasmonic Nanoclusters. Nano Letters, 2011, 11, 4859-4864.	9.1	136
134	Plasmon-Mediated Catalytic O₂ Dissociation on Ag Nanostructures: Hot Electrons or Near Fields?. ACS Energy Letters, 2019, 4, 1803-1809.	17.4	136
135	Optical Properties of a Nanosized Hole in a Thin Metallic Film. ACS Nano, 2008, 2, 25-32.	14.6	133
136	Probing the Plasmonic Near-Field of Gold Nanocrescent Antennas. ACS Nano, 2010, 4, 6639-6650.	14.6	133
137	Noble Metal Nanowires: From Plasmon Waveguides to Passive and Active Devices. Accounts of Chemical Research, 2012, 45, 1887-1895.	15.6	133
138	Response to Comment on â€œQuantifying hot carrier and thermal contributions in plasmonic photocatalysisâ€. Science, 2019, 364, .	12.6	131
139	How Long Does It Take for the Kondo Effect to Develop?. Physical Review Letters, 1999, 83, 808-811.	7.8	129
140	Real-Space Mapping of Fano Interference in Plasmonic Metamolecules. Nano Letters, 2011, 11, 3922-3926.	9.1	129
141	Enhanced tunability and linewidth sharpening of plasmon resonances in hybridized metallic ring/disk nanocavities. Physical Review B, 2007, 76, .	3.2	128
142	Tunable wide-angle plasmonic perfect absorber at visible frequencies. Physical Review B, 2012, 85, .	3.2	125
143	Fano resonances in planar silver nanosphere clusters. Applied Physics A: Materials Science and Processing, 2010, 100, 333-339.	2.3	123
144	Effects of dielectric screening on the optical properties of metallic nanoshells. Chemical Physics Letters, 2003, 368, 94-101.	2.6	121

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145	Plasmon hybridization in nanorod dimers. Applied Physics B: Lasers and Optics, 2008, 93, 209-216.	2.2	119
146	Magnetic Plasmon Formation and Propagation in Artificial Aromatic Molecules. Nano Letters, 2012, 12, 364-369.	9.1	119
147	Nanooptics of Plasmonic Nanomatryoshkas: Shrinking the Size of a Coreâ€"Shell Junction to Subnanometer. Nano Letters, 2015, 15, 6419-6428.	9.1	119
148	Electronic structure of small GaAs clusters. Journal of Chemical Physics, 1991, 94, 8015-8020.	3.0	118
149	Charge Transfer Plasmons: Optical Frequency Conductances and Tunable Infrared Resonances. ACS Nano, 2015, 9, 6428-6435.	14.6	115
150	Relaxation of Plasmon-Induced Hot Carriers. ACS Photonics, 2018, 5, 2584-2595.	6.6	115
151	Photoluminescence of Gold Nanorods: Purcell Effect Enhanced Emission from Hot Carriers. ACS Nano, 2018, 12, 976-985.	14.6	113
152	Finite-Difference Time-Domain Modeling of the Optical Properties of Nanoparticles near Dielectric Substrates. Journal of Physical Chemistry C, 2010, 114, 7302-7307.	3.1	111
153	Individual Nanoantennas Loaded with Three-Dimensional Optical Nanocircuits. Nano Letters, 2013, 13, 142-147.	9.1	111
154	Plasmonic Mode Engineering with Templated Self-Assembled Nanoclusters. Nano Letters, 2012, 12, 5318-5324.	9.1	108
155	Plasmonic Radiance: Probing Structure at the Ã…ngstrÃ¶m Scale with Visible Light. Nano Letters, 2013, 13, 497-503.	9.1	108
156	Electronic structure of small GaAs clusters. II. Journal of Chemical Physics, 1992, 97, 1858-1864.	3.0	107
157	Nanoparticle-Mediated, Light-Induced Phase Separations. Nano Letters, 2015, 15, 7880-7885.	9.1	107
158	Asymmetric Aluminum Antennas for Self-Calibrating Surface-Enhanced Infrared Absorption Spectroscopy. ACS Photonics, 2016, 3, 354-360.	6.6	107
159	Theoretical examination of the trapping of ion-implanted hydrogen in metals. Physical Review B, 1986, 33, 854-863.	3.2	106
160	The Ring: A Leitmotif in Plasmonics. ACS Nano, 2009, 3, 488-492.	14.6	106
161	Multiple hydrogen occupancy of vacancies in Fe. Journal of Applied Physics, 1987, 61, 1788-1794.	2.5	104
162	The interaction of helium with smooth metal surfaces. Journal of Physics C: Solid State Physics, 1984, 17, 1141-1152.	1.5	103

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163	Monolithic Metal Dimer-on-Film Structure: New Plasmonic Properties Introduced by the Underlying Metal. Nano Letters, 2020, 20, 2087-2093.	9.1	102
164	Trends in hydrogen heats of solution and vacancy trapping energies in transition metals. Journal of Physics F: Metal Physics, 1986, 16, 1161-1171.	1.6	101
165	Tunable Molecular Plasmons in Polycyclic Aromatic Hydrocarbons. ACS Nano, 2013, 7, 3635-3643.	14.6	101
166	The Morphology of Narrow Gaps Modifies the Plasmonic Response. ACS Photonics, 2015, 2, 295-305.	6.6	99
167	Multicolor Electrochromic Devices Based on Molecular Plasmonics. ACS Nano, 2017, 11, 3254-3261.	14.6	97
168	Plasmon hybridization in nanoshell dimers. Journal of Chemical Physics, 2005, 123, 024701.	3.0	95
169	Angle- and Spectral-Dependent Light Scattering from Plasmonic Nanocups. ACS Nano, 2011, 5, 7254-7262.	14.6	95
170	Fullerene nanotubes in electric fields. Physical Review B, 1995, 52, 1429-1432.	3.2	94
171	A Plethora of Plasmonics from the Laboratory for Nanophotonics at Rice University. Advanced Materials, 2012, 24, 4842-4877.	21.0	94
172	Toroidal Dipole-Enhanced Third Harmonic Generation of Deep Ultraviolet Light Using Plasmonic Meta-atoms. Nano Letters, 2019, 19, 605-611.	9.1	94
173	Multiple deuterium occupancy of vacancies in Pd and related metals. Physical Review B, 1989, 40, 1990-1992.	3.2	92
174	Manipulating Magnetic Plasmon Propagation in Metallic Nanocluster Networks. ACS Nano, 2012, 6, 5482-5488.	14.6	92
175	Hot Electron Generation and Cathodoluminescence Nanoscopy of Chiral Split Ring Resonators. Nano Letters, 2016, 16, 5183-5190.	9.1	92
176	Quantum mechanical study of the coupling of plasmon excitations to atomic-scale electron transport. Journal of Chemical Physics, 2011, 134, 074701.	3.0	91
177	Combining Plasmonic Hot Carrier Generation with Free Carrier Absorption for High-Performance Near-Infrared Silicon-Based Photodetection. ACS Photonics, 2018, 5, 3472-3477.	6.6	91
178	Quantum Plasmonics: Optical Properties of a Nanomatryushka. Nano Letters, 2013, 13, 5873-5879.	9.1	88
179	Chiral and Achiral Nanodumbbell Dimers: The Effect of Geometry on Plasmonic Properties. ACS Nano, 2016, 10, 6180-6188.	14.6	88
180	Photoelectron spectroscopy of transition-metal clusters: Correlation of valence electronic structure to reactivity. Physical Review B, 1995, 51, 4668-4671.	3.2	87

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181	Plasmonic structure and electromagnetic field enhancements in the metallic nanoparticle-film system. Applied Physics B: Lasers and Optics, 2006, 84, 35-41.	2.2	87
182	Plasmon hybridization in nanoshells with a nonconcentric core. Journal of Chemical Physics, 2006, 125, 124708.	3.0	87
183	Optics and Nonlinear Buckling Mechanics in Large-Area, Highly Stretchable Arrays of Plasmonic Nanostructures. ACS Nano, 2015, 9, 5968-5975.	14.6	87
184	Bethe-hole polarization analyser for the magnetic vector of light. Nature Communications, 2011, 2, 451.	12.8	83
185	Plasmonic Photocatalysis of Nitrous Oxide into N₂ and O₂ Using Aluminumâ€“Iridium Antennaâ€“Reactor Nanoparticles. ACS Nano, 2019, 13, 8076-8086.	14.6	83
186	Vacuum Ultraviolet Light-Generating Metasurface. Nano Letters, 2018, 18, 5738-5743.	9.1	82
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