

George C Schatz

List of Publications by Year in descending order

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653
papers

75,267
citations

764

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259
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664
all docs

664
docs citations

664
times ranked

54051
citing authors

#	ARTICLE	IF	CITATIONS
1	The Optical Properties of Metal Nanoparticles: The Influence of Size, Shape, and Dielectric Environment. <i>Journal of Physical Chemistry B</i> , 2003, 107, 668-677.	1.2	9,036
2	Photoinduced Conversion of Silver Nanospheres to Nanoprisms. <i>Science</i> , 2001, 294, 1901-1903.	6.0	3,222
3	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020, 14, 28-117.	7.3	2,153
4	Correlating the Crystal Structure of A Thiol-Protected Au ₂₅ Cluster and Optical Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 5883-5885.	6.6	2,014
5	Electromagnetic fields around silver nanoparticles and dimers. <i>Journal of Chemical Physics</i> , 2004, 120, 357-366.	1.2	1,732
6	Controlling anisotropic nanoparticle growth through plasmon excitation. <i>Nature</i> , 2003, 425, 487-490.	13.7	1,583
7	DNA-programmable nanoparticle crystallization. <i>Nature</i> , 2008, 451, 553-556.	13.7	1,431
8	Localized Surface Plasmon Resonance Spectroscopy of Single Silver Nanocubes. <i>Nano Letters</i> , 2005, 5, 2034-2038.	4.5	1,307
9	What Controls the Melting Properties of DNA-Linked Gold Nanoparticle Assemblies?. <i>Journal of the American Chemical Society</i> , 2003, 125, 1643-1654.	6.6	1,054
10	Nanoparticle Superlattice Engineering with DNA. <i>Science</i> , 2011, 334, 204-208.	6.0	1,013
11	Structural Information from Ion Mobility Measurements: Effects of the Long-Range Potential. <i>The Journal of Physical Chemistry</i> , 1996, 100, 16082-16086.	2.9	982
12	Probing the Structure of Single-Molecule Surface-Enhanced Raman Scattering Hot Spots. <i>Journal of the American Chemical Society</i> , 2008, 130, 12616-12617.	6.6	825
13	Plasmonic Properties of Copper Nanoparticles Fabricated by Nanosphere Lithography. <i>Nano Letters</i> , 2007, 7, 1947-1952.	4.5	768
14	Structure-Activity Relationships in Gold Nanoparticle Dimers and Trimers for Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 10903-10910.	6.6	723
15	A Nanoscale Optical Biosensor: The Long Range Distance Dependence of the Localized Surface Plasmon Resonance of Noble Metal Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 109-116.	1.2	708
16	Silver nanoparticle array structures that produce remarkably narrow plasmon lineshapes. <i>Journal of Chemical Physics</i> , 2004, 120, 10871-10875.	1.2	700
17	Covalent functionalization and passivation of exfoliated black phosphorus via aryl diazonium chemistry. <i>Nature Chemistry</i> , 2016, 8, 597-602.	6.6	687
18	Highly Accurate First-Principles Benchmark Data Sets for the Parametrization and Validation of Density Functional and Other Approximate Methods. Derivation of a Robust, Generally Applicable, Double-Hybrid Functional for Thermochemistry and Thermochemical Kinetics. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12868-12886.	1.1	680

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19	Nanoparticle Optics: The Importance of Radiative Dipole Coupling in Two-Dimensional Nanoparticle Arrays. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7337-7342.	1.2	665
20	An accurate electromagnetic theory study of surface enhancement factors for silver, gold, copper, lithium, sodium, aluminum, gallium, indium, zinc, and cadmium. <i>The Journal of Physical Chemistry</i> , 1987, 91, 634-643.	2.9	661
21	Lasing action in strongly coupled plasmonic nanocavity arrays. <i>Nature Nanotechnology</i> , 2013, 8, 506-511.	15.6	657
22	Nanoscale Optical Biosensor: Short Range Distance Dependence of the Localized Surface Plasmon Resonance of Noble Metal Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6961-6968.	1.2	631
23	Plasmonic Materials for Surface-Enhanced Sensing and Spectroscopy. <i>MRS Bulletin</i> , 2005, 30, 368-375.	1.7	616
24	The Extinction Spectra of Silver Nanoparticle Arrays: Influence of Array Structure on Plasmon Resonance Wavelength and Width. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7343-7350.	1.2	575
25	Electronic structure methods for studying surface-enhanced Raman scattering. <i>Chemical Society Reviews</i> , 2008, 37, 1061.	18.7	568
26	Electrodynamics of Noble Metal Nanoparticles and Nanoparticle Clusters. <i>Journal of Cluster Science</i> , 1999, 10, 295-317.	1.7	528
27	Synthesis and Optical Properties of Branched Gold Nanocrystals. <i>Nano Letters</i> , 2004, 4, 327-330.	4.5	524
28	Nanosphere Lithography: Effect of the External Dielectric Medium on the Surface Plasmon Resonance Spectrum of a Periodic Array of Silver Nanoparticles. <i>Journal of Physical Chemistry B</i> , 1999, 103, 9846-9853.	1.2	520
29	Single-Molecule Chemistry with Surface- and Tip-Enhanced Raman Spectroscopy. <i>Chemical Reviews</i> , 2017, 117, 7583-7613.	23.0	519
30	Light-Harvesting and Ultrafast Energy Migration in Porphyrin-Based Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2013, 135, 862-869.	6.6	510
31	Confined Plasmons in Nanofabricated Single Silver Particle Pairs: Experimental Observations of Strong Interparticle Interactions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1079-1087.	1.2	488
32	Pyridine-Ag ₂₀ Cluster: A Model System for Studying Surface-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2006, 128, 2911-2919.	6.6	478
33	Discrete dipole approximation for calculating extinction and Raman intensities for small particles with arbitrary shapes. <i>Journal of Chemical Physics</i> , 1995, 103, 869-875.	1.2	465
34	Methods for Describing the Electromagnetic Properties of Silver and Gold Nanoparticles. <i>Accounts of Chemical Research</i> , 2008, 41, 1710-1720.	7.6	457
35	Theoretical studies of surface enhanced Raman scattering. <i>Accounts of Chemical Research</i> , 1984, 17, 370-376.	7.6	437
36	Distance Dependence of Plasmon-Enhanced Photocurrent in Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2009, 131, 8407-8409.	6.6	434

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37	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020, 152, 184102.	1.2	425
38	Designing, fabricating, and imaging Raman hot spots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13300-13303.	3.3	424
39	Nanosphere Lithography: Effect of Substrate on the Localized Surface Plasmon Resonance Spectrum of Silver Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2343-2350.	1.2	420
40	Reversing the size-dependence of surface plasmon resonances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14530-14534.	3.3	408
41	Surface plasmon broadening for arbitrary shape nanoparticles: A geometrical probability approach. <i>Journal of Chemical Physics</i> , 2003, 119, 3926-3934.	1.2	395
42	Single-Molecule Surface-Enhanced Raman Spectroscopy of Crystal Violet Isotopologues: Theory and Experiment. <i>Journal of the American Chemical Society</i> , 2011, 133, 4115-4122.	6.6	390
43	Controlling Conformations of Conjugated Polymers and Small Molecules: The Role of Nonbonding Interactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 10475-10483.	6.6	386
44	Brightening of carbon nanotube photoluminescence through the incorporation of sp ³ defects. <i>Nature Chemistry</i> , 2013, 5, 840-845.	6.6	372
45	Localized Surface Plasmon Resonance Spectroscopy of Triangular Aluminum Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13958-13963.	1.5	360
46	Electromagnetic Mechanism of SERS. , 2006, , 19-45.		356
47	Real-time tunable lasing from plasmonic nanocavity arrays. <i>Nature Communications</i> , 2015, 6, 6939.	5.8	356
48	Energy landscapes and functions of supramolecular systems. <i>Nature Materials</i> , 2016, 15, 469-476.	13.3	348
49	Resonance Raman Scattering of Rhodamine 6G as Calculated Using Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5973-5977.	1.1	344
50	Fluorination Effects on Indacenodithienothiophene Acceptor Packing and Electronic Structure, End-Group Redistribution, and Solar Cell Photovoltaic Response. <i>Journal of the American Chemical Society</i> , 2019, 141, 3274-3287.	6.6	336
51	Silver nanoparticle array structures that produce giant enhancements in electromagnetic fields. <i>Chemical Physics Letters</i> , 2005, 403, 62-67.	1.2	326
52	Nanosphere Lithography: Surface Plasmon Resonance Spectrum of a Periodic Array of Silver Nanoparticles by Ultraviolet-Visible Extinction Spectroscopy and Electrodynamic Modeling. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2394-2401.	1.2	318
53	Expanding applications of SERS through versatile nanomaterials engineering. <i>Chemical Society Reviews</i> , 2017, 46, 3886-3903.	18.7	316
54	Unraveling the Effects of Size, Composition, and Substrate on the Localized Surface Plasmon Resonance Frequencies of Gold and Silver Nanocubes: A Systematic Single-Particle Approach. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12511-12516.	1.5	314

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55	Narrow plasmonic/photonic extinction and scattering line shapes for one and two dimensional silver nanoparticle arrays. <i>Journal of Chemical Physics</i> , 2004, 121, 12606.	1.2	312
56	DNA-Linked Metal Nanosphere Materials: A Structural Basis for the Optical Properties. <i>Journal of Physical Chemistry B</i> , 2000, 104, 460-467.	1.2	304
57	Computational Studies of the Structure, Behavior upon Heating, and Mechanical Properties of Graphite Oxide. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18099-18111.	1.5	303
58	Structure Enhancement Factor Relationships in Single Gold Nanoantennas by Surface-Enhanced Raman Excitation Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 301-308.	6.6	299
59	Theory of Raman scattering by molecules adsorbed on electrode surfaces. <i>Journal of Chemical Physics</i> , 1978, 69, 4472-4481.	1.2	296
60	Surface-Enhanced Raman Excitation Spectroscopy of a Single Rhodamine 6G Molecule. <i>Journal of the American Chemical Society</i> , 2009, 131, 849-854.	6.6	294
61	Coupled quantum mechanical/molecular mechanical modeling of the fracture of defective carbon nanotubes and graphene sheets. <i>Physical Review B</i> , 2007, 75, .	1.1	293
62	Interaction of Plasmon and Molecular Resonances for Rhodamine 6G Adsorbed on Silver Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 7647-7656.	6.6	282
63	Enabling singlet fission by controlling intramolecular charge transfer in π -stacked covalent terrylenediimide dimers. <i>Nature Chemistry</i> , 2016, 8, 1120-1125.	6.6	273
64	High-performance SERS substrates: Advances and challenges. <i>MRS Bulletin</i> , 2013, 38, 615-624.	1.7	267
65	Optical Properties of One-, Two-, and Three-Dimensional Arrays of Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 816-830.	1.5	257
66	Multipolar excitation in triangular nanoprisms. <i>Journal of Chemical Physics</i> , 2005, 123, 114713.	1.2	255
67	From Discrete Electronic States to Plasmons: TDDFT Optical Absorption Properties of Ag_n ($n = 10, 20, 35, 56, 84, 120$) Tetrahedral Clusters. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11272-11279.	1.5	252
68	Localized Surface Plasmon Resonance Spectroscopy near Molecular Resonances. <i>Journal of the American Chemical Society</i> , 2006, 128, 10905-10914.	6.6	247
69	Mechanics of defects in carbon nanotubes: Atomistic and multiscale simulations. <i>Physical Review B</i> , 2005, 71, .	1.1	238
70	Silver Nanoparticles with Broad Multiband Linear Optical Absorption. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5921-5926.	7.2	235
71	Toward Plasmonic Solar Cells: Protection of Silver Nanoparticles via Atomic Layer Deposition of TiO_2 . <i>Langmuir</i> , 2009, 25, 2596-2600.	1.6	230
72	Nanostructured organic semiconductor films for molecular detection with surface-enhanced Raman spectroscopy. <i>Nature Materials</i> , 2017, 16, 918-924.	13.3	229

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73	Single-Molecule Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 478-483.	1.5	226
74	Tailorable Plasmonic Circular Dichroism Properties of Helical Nanoparticle Superstructures. <i>Nano Letters</i> , 2013, 13, 3256-3261.	4.5	221
75	Correlated Structure and Optical Property Studies of Plasmonic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9291-9305.	1.5	217
76	A Look at the Origin and Magnitude of the Chemical Contribution to the Enhancement Mechanism of Surface-Enhanced Raman Spectroscopy (SERS): Theory and Experiment. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2599-2604.	2.1	216
77	Crystallography, Morphology, Electronic Structure, and Transport in Non-Fullerene/Non-Indacenodithienothiophene Polymer:Y6 Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 14532-14547.	6.6	214
78	Surface-Enhanced Raman Scattering of Pyrazine at the Junction between Two Ag ₂₀ Nanoclusters. <i>Nano Letters</i> , 2006, 6, 1229-1234.	4.5	212
79	Nitrogenase-mimic iron-containing chalcogels for photochemical reduction of dinitrogen to ammonia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5530-5535.	3.3	211
80	Near-Field Photochemical Imaging of Noble Metal Nanostructures. <i>Nano Letters</i> , 2005, 5, 615-619.	4.5	210
81	A surface-enhanced hyper-Raman and surface-enhanced Raman scattering study of trans-1,2-bis(4-pyridyl)ethylene adsorbed onto silver film over nanosphere electrodes. Vibrational assignments: Experiment and theory. <i>Journal of Chemical Physics</i> , 1996, 104, 4313-4323.	1.2	203
82	Atomistic Molecular Dynamics Simulations of Peptide Amphiphile Self-Assembly into Cylindrical Nanofibers. <i>Journal of the American Chemical Society</i> , 2011, 133, 3677-3683.	6.6	195
83	Light-Driven Expansion of Spiropyran Hydrogels. <i>Journal of the American Chemical Society</i> , 2020, 142, 8447-8453.	6.6	190
84	Supramolecular "covalent" hybrid polymers for light-activated mechanical actuation. <i>Nature Materials</i> , 2020, 19, 900-909.	13.3	186
85	Observation of Multiple Vibrational Modes in Ultrahigh Vacuum Tip-Enhanced Raman Spectroscopy Combined with Molecular-Resolution Scanning Tunneling Microscopy. <i>Nano Letters</i> , 2012, 12, 5061-5067.	4.5	182
86	Size-Dependence of the Enhanced Raman Scattering of Pyridine Adsorbed on Ag _n (n= 2 ⁿ , 20) Clusters. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4756-4764.	1.5	180
87	Modeling the Effect of Small Gaps in Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1627-1637.	1.5	179
88	Conformational Order in Aggregates of Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 6254-6262.	6.6	177
89	A surface enhanced hyper-Raman scattering study of pyridine adsorbed onto silver: Experiment and theory. <i>Journal of Chemical Physics</i> , 1988, 88, 7942-7951.	1.2	172
90	Correlating the Structure, Optical Spectra, and Electrodynamics of Single Silver Nanocubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2731-2735.	1.5	171

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91	Theory and method for calculating resonance Raman scattering from resonance polarizability derivatives. <i>Journal of Chemical Physics</i> , 2005, 123, 174110.	1.2	169
92	Nanoscale form dictates mesoscale function in plasmonic DNA‐nanoparticle superlattices. <i>Nature Nanotechnology</i> , 2015, 10, 453-458.	15.6	169
93	Singlet Fission via an Excimer-Like Intermediate in 3,6-Bis(thiophen-2-yl)diketopyrrolopyrrole Derivatives. <i>Journal of the American Chemical Society</i> , 2016, 138, 11749-11761.	6.6	167
94	Band-edge engineering for controlled multi-modal nanolasing in plasmonic superlattices. <i>Nature Nanotechnology</i> , 2017, 12, 889-894.	15.6	167
95	Simultaneous covalent and noncovalent hybrid polymerizations. <i>Science</i> , 2016, 351, 497-502.	6.0	164
96	Finite lifetime effects on the polarizability within time-dependent density-functional theory. <i>Journal of Chemical Physics</i> , 2005, 122, 224115.	1.2	161
97	Ultralow-threshold, continuous-wave upconverting lasing from subwavelength plasmons. <i>Nature Materials</i> , 2019, 18, 1172-1176.	13.3	160
98	Using DNA to Design Plasmonic Metamaterials with Tunable Optical Properties. <i>Advanced Materials</i> , 2014, 26, 653-659.	11.1	157
99	Plasmon resonance broadening in small metal particles. <i>Journal of Chemical Physics</i> , 1983, 79, 6130-6139.	1.2	153
100	Self-assembly of ink molecules in dip-pen nanolithography: A diffusion model. <i>Journal of Chemical Physics</i> , 2001, 115, 2721-2729.	1.2	153
101	Direct Observation of a Charge-Transfer State Preceding High-Yield Singlet Fission in Terrylenediimide Thin Films. <i>Journal of the American Chemical Society</i> , 2017, 139, 663-671.	6.6	149
102	Effect of Structural Dynamics on Charge Transfer in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2008, 130, 5157-5166.	6.6	148
103	Ultrafast and nonlinear surface-enhanced Raman spectroscopy. <i>Chemical Society Reviews</i> , 2016, 45, 2263-2290.	18.7	143
104	CO ₂ Hydrogenation to Formic Acid on Ni(111). <i>Journal of Physical Chemistry C</i> , 2012, 116, 3001-3006.	1.5	141
105	Modeling the Self-Assembly of Peptide Amphiphiles into Fibers Using Coarse-Grained Molecular Dynamics. <i>Nano Letters</i> , 2012, 12, 4907-4913.	4.5	140
106	Immobilized Nanorod Assemblies: Fabrication and Understanding of Large Area Surface-Enhanced Raman Spectroscopy Substrates. <i>Analytical Chemistry</i> , 2013, 85, 2297-2303.	3.2	138
107	High-Resolution Distance Dependence Study of Surface-Enhanced Raman Scattering Enabled by Atomic Layer Deposition. <i>Nano Letters</i> , 2016, 16, 4251-4259.	4.5	136
108	Plasmon-Coupled Resonance Energy Transfer. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2357-2367.	2.1	136

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109	Mobilities of carbon cluster ions: Critical importance of the molecular attractive potential. <i>Journal of Chemical Physics</i> , 1998, 108, 2416-2423.	1.2	135
110	Cell death versus cell survival instructed by supramolecular cohesion of nanostructures. <i>Nature Communications</i> , 2014, 5, 3321.	5.8	135
111	On the Origin of Photoluminescence in Silicon Nanocrystals: Pressure-Dependent Structural and Optical Studies. <i>Nano Letters</i> , 2012, 12, 4200-4205.	4.5	133
112	Introduction to Plasmonics. <i>Chemical Reviews</i> , 2011, 111, 3667-3668.	23.0	130
113	Structural Engineering in Plasmon Nanolasers. <i>Chemical Reviews</i> , 2018, 118, 2865-2881.	23.0	130
114	Programmable and reversible plasmon mode engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14201-14206.	3.3	129
115	Hyper-Rayleigh scattering from silver nanoparticles. <i>Journal of Chemical Physics</i> , 2002, 117, 5963-5966.	1.2	128
116	Strong Coupling between Plasmonic Gap Modes and Photonic Lattice Modes in DNA-Assembled Gold Nanocube Arrays. <i>Nano Letters</i> , 2015, 15, 4699-4703.	4.5	128
117	Ultrahigh-Vacuum Tip-Enhanced Raman Spectroscopy. <i>Chemical Reviews</i> , 2017, 117, 4961-4982.	23.0	128
118	Time-dependent dynamics of methyl iodide photodissociation in the first continuum. <i>Journal of Chemical Physics</i> , 1990, 93, 393-402.	1.2	127
119	A Quantum State-Resolved Insertion Reaction: $O(1D) + H_2(J = 0) \rightarrow OH(2\text{prod}, v, N) + H(2S)$. <i>Science</i> , 2000, 289, 1536-1538.	6.0	127
120	Molecularly Tunable Fluorescent Quantum Defects. <i>Journal of the American Chemical Society</i> , 2016, 138, 6878-6885.	6.6	126
121	Closely packed, low reorganization energy π -extended postfullerene acceptors for efficient polymer solar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8341-E8348.	3.3	126
122	Systematic Merging of Nonfullerene Acceptor π -Extension and Tetrafluorination Strategies Affords Polymer Solar Cells with $>16\%$ Efficiency. <i>Journal of the American Chemical Society</i> , 2021, 143, 6123-6139.	6.6	125
123	Plasmonic Surface Lattice Resonances: Theory and Computation. <i>Accounts of Chemical Research</i> , 2019, 52, 2548-2558.	7.6	119
124	Allosteric transcriptional regulation via changes in the overall topology of the core promoter. <i>Science</i> , 2015, 349, 877-881.	6.0	118
125	Screening of Type I and II Drug Binding to Human Cytochrome P450-3A4 in Nanodiscs by Localized Surface Plasmon Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2009, 81, 3754-3759.	3.2	116
126	Theoretical studies of the reactions hydrogen atom + methylidyne \rightarrow carbon + hydrogen and carbon + hydrogen \rightarrow methylene using an ab initio global ground-state potential surface for methylene. <i>The Journal of Physical Chemistry</i> , 1993, 97, 5472-5481.	2.9	112

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127	Calculating nonlocal optical properties of structures with arbitrary shape. Physical Review B, 2010, 82, .	1.1	112
128	A crossed molecular beams study of the O(3P)+H ₂ reaction: Comparison of excitation function with accurate quantum reactive scattering calculations. Journal of Chemical Physics, 2003, 118, 1585-1588.	1.2	111
129	The origin of cross section thresholds in H+H ₂ : Why quantum dynamics appears to be more vibrationally adiabatic than classical dynamics. Journal of Chemical Physics, 1983, 79, 5386-5391.	1.2	110
130	Quantum and quasiclassical calculations on the OH+CO ⁺ CO ₂ +H reaction. Journal of Chemical Physics, 1993, 99, 4578-4589.	1.2	108
131	Plasmonic photonic crystals realized through DNA-programmable assembly. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 977-981.	3.3	107
132	Using theory and computation to model nanoscale properties. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6885-6892.	3.3	106
133	Dissociation dynamics of vibrationally excited van der Waals clusters: I ₂ X ⁺ + X ₂ + Y ⁺ (X, Y = He, Ne). Journal of Chemical Physics, 1983, 79, 1808-1822.	1.2	105
134	Gap Structure Effects on Surface-Enhanced Raman Scattering Intensities for Gold Gapped Rods. Nano Letters, 2010, 10, 1722-1727.	4.5	103
135	Bisboronic Acids for Selective, Physiologically Relevant Direct Glucose Sensing with Surface-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2016, 138, 13952-13959.	6.6	103
136	Stretchable Nanolasing from Hybrid Quadrupole Plasmons. Nano Letters, 2018, 18, 4549-4555.	4.5	102
137	Operando Characterization of Iron Phthalocyanine Deactivation during Oxygen Reduction Reaction Using Electrochemical Tip-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2019, 141, 15684-15692.	6.6	102
138	A quasiclassical trajectory study of H+CO ₂ : Angular and translational distributions, and OH angular momentum alignment. Journal of Chemical Physics, 1997, 106, 8464-8472.	1.2	98
139	A quasiclassical trajectory study of reagent vibrational excitation effects in the OH+H ₂ ⁺ H ₂ O+H reaction. Journal of Chemical Physics, 1981, 74, 1133-1139.	1.2	96
140	Quantum dynamics of a planar model for the complex forming OH+CO ⁺ H+CO ₂ reaction. Journal of Chemical Physics, 1995, 102, 8807-8817.	1.2	96
141	Importance of Intersystem Crossing in the S(3P,1D) + H ₂ ⁺ SH + H Reaction. Journal of Physical Chemistry A, 2004, 108, 8772-8781.	1.1	96
142	Liquid meniscus condensation in dip-pen nanolithography. Journal of Chemical Physics, 2002, 116, 3875-3886.	1.2	94
143	Scattering Theory and Dynamics: A Time-Dependent and Time-Independent Methods. The Journal of Physical Chemistry, 1996, 100, 12839-12847.	2.9	92
144	Surprisingly Long-Range Surface-Enhanced Raman Scattering (SERS) on Au-Ni Multisegmented Nanowires. Angewandte Chemie - International Edition, 2009, 48, 4210-4212.	7.2	90

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145	Using nanoscale and mesoscale anisotropy to engineer the optical response of three-dimensional plasmonic metamaterials. <i>Nature Communications</i> , 2014, 5, 4090.	5.8	90
146	Uniform Circular Disks With Synthetically Tailorable Diameters: Two-Dimensional Nanoparticles for Plasmonics. <i>Nano Letters</i> , 2015, 15, 1012-1017.	4.5	90
147	Molecular Dynamics Simulation of DNA-Functionalized Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2316-2321.	1.5	89
148	Theoretical studies of intersystem crossing effects in the O+H ₂ reaction. <i>Journal of Chemical Physics</i> , 2000, 113, 9456-9465.	1.2	88
149	Quantum scattering study of electronic Coriolis and nonadiabatic coupling effects in O(1D)+H ₂ →OH+H. <i>Journal of Chemical Physics</i> , 1999, 111, 2451-2463.	1.2	87
150	Nanoscale Chemical Imaging of a Dynamic Molecular Phase Boundary with Ultrahigh Vacuum Tip-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 3898-3904.	4.5	87
151	Aluminum Film-Over-Nanosphere Substrates for Deep-UV Surface-Enhanced Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016, 16, 7968-7973.	4.5	86
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