

George C Schatz

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110
h-index

241
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664
ext. papers

69,367
ext. citations

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7.99
L-index

#	Paper	IF	Citations
597	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	3.4	7908
596	Photoinduced conversion of silver nanospheres to nanoprisms. <i>Science</i> , 2001 , 294, 1901-3	33.3	2970
595	Correlating the crystal structure of a thiol-protected Au ₂₅ cluster and optical properties. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5883-5	16.4	1752
594	Electromagnetic fields around silver nanoparticles and dimers. <i>Journal of Chemical Physics</i> , 2004 , 120, 357-66	3.9	1566
593	Controlling anisotropic nanoparticle growth through plasmon excitation. <i>Nature</i> , 2003 , 425, 487-90	50.4	1467
592	DNA-programmable nanoparticle crystallization. <i>Nature</i> , 2008 , 451, 553-6	50.4	1297
591	Localized surface plasmon resonance spectroscopy of single silver nanocubes. <i>Nano Letters</i> , 2005 , 5, 2034-8	11.5	1166
590	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
589	What controls the melting properties of DNA-linked gold nanoparticle assemblies?. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1643-54	16.4	946
588	Nanoparticle superlattice engineering with DNA. <i>Science</i> , 2011 , 334, 204-8	33.3	876
587	Structural Information from Ion Mobility Measurements: Effects of the Long-Range Potential. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16082-16086		875
586	Probing the structure of single-molecule surface-enhanced Raman scattering hot spots. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12616-7	16.4	738
585	Plasmonic Properties of Copper Nanoparticles Fabricated by Nanosphere Lithography. <i>Nano Letters</i> , 2007 , 7, 1947-1952	11.5	673
584	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	3.4	644
583	Structure-activity relationships in gold nanoparticle dimers and trimers for surface-enhanced Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10903-10	16.4	641
582	Nanoparticle Optics: The Importance of Radiative Dipole Coupling in Two-Dimensional Nanoparticle Arrays. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 7337-7342	3.4	604
581	Silver nanoparticle array structures that produce remarkably narrow plasmon lineshapes. <i>Journal of Chemical Physics</i> , 2004 , 120, 10871-5	3.9	586

580	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		581
579	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, 12868-86	2.8	578
578	Covalent functionalization and passivation of exfoliated black phosphorus via aryl diazonium chemistry. <i>Nature Chemistry</i> , 2016 , 8, 597-602	17.6	574
577	Plasmonic Materials for Surface-Enhanced Sensing and Spectroscopy. <i>MRS Bulletin</i> , 2005 , 30, 368-375	3.2	544
576	Lasing action in strongly coupled plasmonic nanocavity arrays. <i>Nature Nanotechnology</i> , 2013 , 8, 506-11	28.7	539
575	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	3.4	536
574	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	3.4	511
573	Synthesis and Optical Properties of Branched Gold Nanocrystals. <i>Nano Letters</i> , 2004 , 4, 327-330	11.5	491
572	Electrodynamics of Noble Metal Nanoparticles and Nanoparticle Clusters. <i>Journal of Cluster Science</i> , 1999 , 10, 295-317	3	470
571	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	3.4	469
570	Electronic structure methods for studying surface-enhanced Raman scattering. <i>Chemical Society Reviews</i> , 2008 , 37, 1061-73	58.5	465
569	Light-harvesting and ultrafast energy migration in porphyrin-based metal-organic frameworks. <i>Journal of the American Chemical Society</i> , 2013 , 135, 862-9	16.4	461
568	Confined plasmons in nanofabricated single silver particle pairs: experimental observations of strong interparticle interactions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1079-87	3.4	447
567	Pyridine-Ag ₂₀ cluster: a model system for studying surface-enhanced Raman scattering. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2911-9	16.4	430
566	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	3.9	419
565	Distance dependence of plasmon-enhanced photocurrent in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8407-9	16.4	405
564	Theoretical studies of surface enhanced Raman scattering. <i>Accounts of Chemical Research</i> , 1984 , 17, 370-376	27.6	401
563	Methods for describing the electromagnetic properties of silver and gold nanoparticles. <i>Accounts of Chemical Research</i> , 2008 , 41, 1710-20	24.3	397

562	Designing, fabricating, and imaging Raman hot spots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13300-3	11.5	397
561	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	3.4	377
560	Single-Molecule Chemistry with Surface- and Tip-Enhanced Raman Spectroscopy. <i>Chemical Reviews</i> , 2017 , 117, 7583-7613	68.1	376
559	Single-molecule surface-enhanced Raman spectroscopy of crystal violet isotopologues: theory and experiment. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4115-22	16.4	358
558	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, 14530-4	11.5	348
557	Surface plasmon broadening for arbitrary shape nanoparticles: A geometrical probability approach. <i>Journal of Chemical Physics</i> , 2003 , 119, 3926-3934	3.9	345
556	Controlling conformations of conjugated polymers and small molecules: the role of nonbonding interactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10475-83	16.4	324
555	Localized Surface Plasmon Resonance Spectroscopy of Triangular Aluminum Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13958-13963	3.8	315
554	Electromagnetic Mechanism of SERS 2006 , 19-45		307
553	Resonance Raman scattering of rhodamine 6G as calculated using time-dependent density functional theory. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5973-7	2.8	303
552	Silver nanoparticle array structures that produce giant enhancements in electromagnetic fields. <i>Chemical Physics Letters</i> , 2005 , 403, 62-67	2.5	299
551	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	3.8	281
550	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	3.4	281
549	DNA-Linked Metal Nanosphere Materials: Structural Basis for the Optical Properties. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 460-467	3.4	280
548	Brightening of carbon nanotube photoluminescence through the incorporation of sp ³ defects. <i>Nature Chemistry</i> , 2013 , 5, 840-5	17.6	279
547	Theory of Raman scattering by molecules adsorbed on electrode surfaces. <i>Journal of Chemical Physics</i> , 1978 , 69, 4472-4481	3.9	266
546	Energy landscapes and functions of supramolecular systems. <i>Nature Materials</i> , 2016 , 15, 469-76	27	265
545	Structure enhancement factor relationships in single gold nanoantennas by surface-enhanced Raman excitation spectroscopy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 301-8	16.4	264

544	Surface-enhanced Raman excitation spectroscopy of a single rhodamine 6G molecule. <i>Journal of the American Chemical Society</i> , 2009 , 131, 849-54	16.4	264
543	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	3.8	263
542	Coupled quantum mechanical/molecular mechanical modeling of the fracture of defective carbon nanotubes and graphene sheets. <i>Physical Review B</i> , 2007 , 75,	3.3	263
541	Narrow plasmonic/photonic extinction and scattering line shapes for one and two dimensional silver nanoparticle arrays. <i>Journal of Chemical Physics</i> , 2004 , 121, 12606-12	3.9	263
540	Real-time tunable lasing from plasmonic nanocavity arrays. <i>Nature Communications</i> , 2015 , 6, 6939	17.4	262
539	Interaction of plasmon and molecular resonances for rhodamine 6G adsorbed on silver nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 7647-56	16.4	258
538	Expanding applications of SERS through versatile nanomaterials engineering. <i>Chemical Society Reviews</i> , 2017 , 46, 3886-3903	58.5	240
537	Multipolar excitation in triangular nanoprisms. <i>Journal of Chemical Physics</i> , 2005 , 123, 114713	3.9	237
536	High-performance SERS substrates: Advances and challenges. <i>MRS Bulletin</i> , 2013 , 38, 615-624	3.2	231
535	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	16.4	226
534	Silver nanoparticles with broad multiband linear optical absorption. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5921-6	16.4	223
533	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	3.8	223
532	Localized surface plasmon resonance spectroscopy near molecular resonances. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10905-14	16.4	209
531	Toward plasmonic solar cells: protection of silver nanoparticles via atomic layer deposition of TiO ₂ . <i>Langmuir</i> , 2009 , 25, 2596-600	4	208
530	Single-Molecule Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 478-483	3.8	206
529	Enabling singlet fission by controlling intramolecular charge transfer in stacked covalent terrylenediimide dimers. <i>Nature Chemistry</i> , 2016 , 8, 1120-1125	17.6	205
528	Mechanics of defects in carbon nanotubes: Atomistic and multiscale simulations. <i>Physical Review B</i> , 2005 , 71,	3.3	205
527	Near-field photochemical imaging of noble metal nanostructures. <i>Nano Letters</i> , 2005 , 5, 615-9	11.5	197

526	Correlated Structure and Optical Property Studies of Plasmonic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9291-9305	3.8	196
525	Surface-enhanced raman scattering of pyrazine at the junction between two Ag ₂₀ nanoclusters. <i>Nano Letters</i> , 2006 , 6, 1229-34	11.5	196
524	Optical Properties of One-, Two-, and Three-Dimensional Arrays of Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 816-830	3.8	195
523	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020 , 152, 184102	3.9	187
522	Tailorable plasmonic circular dichroism properties of helical nanoparticle superstructures. <i>Nano Letters</i> , 2013 , 13, 3256-61	11.5	185
521	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	3.9	185
520	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	6.4	169
519	Atomistic molecular dynamics simulations of peptide amphiphile self-assembly into cylindrical nanofibers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3677-83	16.4	167
518	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, 5061-7	11.5	166
517	Size-Dependence of the Enhanced Raman Scattering of Pyridine Adsorbed on Ag _n (n = 28, 20) Clusters. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4756-4764	3.8	166
516	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, 5530-5	11.5	166
515	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	3.9	157
514	Theory and method for calculating resonance Raman scattering from resonance polarizability derivatives. <i>Journal of Chemical Physics</i> , 2005 , 123, 174110	3.9	155
513	Conformational order in aggregates of conjugated polymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6254-62	16.4	153
512	Correlating the Structure, Optical Spectra, and Electrodynamics of Single Silver Nanocubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2731-2735	3.8	153
511	Modeling the Effect of Small Gaps in Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1627-1637	3.8	151
510	Nanostructured organic semiconductor films for molecular detection with surface-enhanced Raman spectroscopy. <i>Nature Materials</i> , 2017 , 16, 918-924	27	149
509	Finite lifetime effects on the polarizability within time-dependent density-functional theory. <i>Journal of Chemical Physics</i> , 2005 , 122, 224115	3.9	146

508	Self-assembly of ink molecules in dip-pen nanolithography: A diffusion model. <i>Journal of Chemical Physics</i> , 2001 , 115, 2721-2729	3.9	143
507	Effect of structural dynamics on charge transfer in DNA hairpins. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5157-66	16.4	140
506	Plasmon resonance broadening in small metal particles. <i>Journal of Chemical Physics</i> , 1983 , 79, 6130-6139	3.9	138
505	Nanoscale form dictates mesoscale function in plasmonic DNA-nanoparticle superlattices. <i>Nature Nanotechnology</i> , 2015 , 10, 453-8	28.7	137
504	Simultaneous covalent and noncovalent hybrid polymerizations. <i>Science</i> , 2016 , 351, 497-502	33.3	137
503	Using DNA to design plasmonic metamaterials with tunable optical properties. <i>Advanced Materials</i> , 2014 , 26, 653-9	24	133
502	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, 11749-61	16.4	130
501	Immobilized nanorod assemblies: fabrication and understanding of large area surface-enhanced Raman spectroscopy substrates. <i>Analytical Chemistry</i> , 2013 , 85, 2297-303	7.8	127
500	Band-edge engineering for controlled multi-modal nanolasing in plasmonic superlattices. <i>Nature Nanotechnology</i> , 2017 , 12, 889-894	28.7	125
499	A Quantum State-Resolved Insertion Reaction: O((1)D) + H(2)(J = 0) --> OH((2) product operator product operator, v, N) + H((2)S). <i>Science</i> , 2000 , 289, 1536-1538	33.3	123
498	Time-dependent dynamics of methyl iodide photodissociation in the first continuum. <i>Journal of Chemical Physics</i> , 1990 , 93, 393-402	3.9	123
497	Cell death versus cell survival instructed by supramolecular cohesion of nanostructures. <i>Nature Communications</i> , 2014 , 5, 3321	17.4	120
496	Mobilities of carbon cluster ions: Critical importance of the molecular attractive potential. <i>Journal of Chemical Physics</i> , 1998 , 108, 2416-2423	3.9	120
495	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	16.4	120
494	CO ₂ Hydrogenation to Formic Acid on Ni(111). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 3001-3006	3.8	119
493	Ultrafast and nonlinear surface-enhanced Raman spectroscopy. <i>Chemical Society Reviews</i> , 2016 , 45, 2263-2295	39.5	115
492	Strong Coupling between Plasmonic Gap Modes and Photonic Lattice Modes in DNA-Assembled Gold Nanocube Arrays. <i>Nano Letters</i> , 2015 , 15, 4699-703	11.5	115
491	Hyper-Rayleigh scattering from silver nanoparticles. <i>Journal of Chemical Physics</i> , 2002 , 117, 5963-5966	3.9	114

490	Modeling the self-assembly of peptide amphiphiles into fibers using coarse-grained molecular dynamics. <i>Nano Letters</i> , 2012 , 12, 4907-13	11.5	112
489	On the origin of photoluminescence in silicon nanocrystals: pressure-dependent structural and optical studies. <i>Nano Letters</i> , 2012 , 12, 4200-5	11.5	111
488	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	16.4	107
487	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, 3754-9	7.8	107
486	High-Resolution Distance Dependence Study of Surface-Enhanced Raman Scattering Enabled by Atomic Layer Deposition. <i>Nano Letters</i> , 2016 , 16, 4251-9	11.5	105
485	The origin of cross section thresholds in H+H ₂ : Why quantum dynamics appears to be more vibrationally adiabatic than classical dynamics. <i>Journal of Chemical Physics</i> , 1983 , 79, 5386-5391	3.9	105
484	Ultrahigh-Vacuum Tip-Enhanced Raman Spectroscopy. <i>Chemical Reviews</i> , 2017 , 117, 4961-4982	68.1	104
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482	Dissociation dynamics of vibrationally excited van der Waals clusters: I ₂ XY → I ₂ +X+Y (X, Y=He, Ne). <i>Journal of Chemical Physics</i> , 1983 , 79, 1808-1822	3.9	104
481	A crossed molecular beams study of the O(3P)+H ₂ reaction: Comparison of excitation function with accurate quantum reactive scattering calculations. <i>Journal of Chemical Physics</i> , 2003 , 118, 1585-1588	3.9	100
480	Using theory and computation to model nanoscale properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6885-92	11.5	99
479	Gap structure effects on surface-enhanced Raman scattering intensities for gold gapped rods. <i>Nano Letters</i> , 2010 , 10, 1722-7	11.5	98
478	Quantum and quasiclassical calculations on the OH+CO→CO ₂ +H reaction. <i>Journal of Chemical Physics</i> , 1993 , 99, 4578-4589	3.9	97
477	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	11.5	95
476	Plasmonic photonic crystals realized through DNA-programmable assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 977-81	11.5	93
475	Importance of Intersystem Crossing in the S(3P,1D) + H ₂ → SH + H Reaction □ <i>Journal of Physical Chemistry A</i> , 2004 , 108, 8772-8781	2.8	93
474	Molecularly Tunable Fluorescent Quantum Defects. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6878-85	16.4	93
473	Structural Engineering in Plasmon Nanolasers. <i>Chemical Reviews</i> , 2018 , 118, 2865-2881	68.1	92

- 472 Plasmon-Coupled Resonance Energy Transfer. *Journal of Physical Chemistry Letters*, **2017**, 8, 2357-2367 6.4 91
- 471 A quasiclassical trajectory study of H+CO₂: Angular and translational distributions, and OH angular momentum alignment. *Journal of Chemical Physics*, **1997**, 106, 8464-8472 3.9 91
- 470 Quantum dynamics of a planar model for the complex forming OH+CO₂→H+CO₂ reaction. *Journal of Chemical Physics*, **1995**, 102, 8807-8817 3.9 91
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- 468 Calculating nonlocal optical properties of structures with arbitrary shape. *Physical Review B*, **2010**, 82, 3333-3336 3.3 88
- 467 Liquid meniscus condensation in dip-pen nanolithography. *Journal of Chemical Physics*, **2002**, 116, 3875-3886 3.9 88
- 466 TRANSCRIPTION. Allosteric transcriptional regulation via changes in the overall topology of the core promoter. *Science*, **2015**, 349, 877-81 33.3 87
- 465 Closely packed, low reorganization energy π -extended postfullerene acceptors for efficient polymer solar cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8341-E8348 11.5 85
- 464 Bisboronic Acids for Selective, Physiologically Relevant Direct Glucose Sensing with Surface-Enhanced Raman Spectroscopy. *Journal of the American Chemical Society*, **2016**, 138, 13952-13959 16.4 84
- 463 Theoretical studies of intersystem crossing effects in the O+H₂ reaction. *Journal of Chemical Physics*, **2000**, 113, 9456-9465 3.9 83
- 462 Quantum scattering study of electronic Coriolis and nonadiabatic coupling effects in O(1D)+H₂→OH+H. *Journal of Chemical Physics*, **1999**, 111, 2451-2463 3.9 82
- 461 Nanoscale Chemical Imaging of a Dynamic Molecular Phase Boundary with Ultrahigh Vacuum Tip-Enhanced Raman Spectroscopy. *Nano Letters*, **2016**, 16, 3898-904 11.5 81
- 460 Ultralow-threshold, continuous-wave upconverting lasing from subwavelength plasmons. *Nature Materials*, **2019**, 18, 1172-1176 27 81
- 459 Surprisingly long-range surface-enhanced Raman scattering (SERS) on Au-Ni multisegmented nanowires. *Angewandte Chemie - International Edition*, **2009**, 48, 4210-2 16.4 79
- 458 Supramolecular-covalent hybrid polymers for light-activated mechanical actuation. *Nature Materials*, **2020**, 19, 900-909 27 78
- 457 Scattering Theory and Dynamics: Time-Dependent and Time-Independent Methods. *The Journal of Physical Chemistry*, **1996**, 100, 12839-12847 78
- 456 Light-Driven Expansion of Spiropyran Hydrogels. *Journal of the American Chemical Society*, **2020**, 142, 8447-8453 16.4 75
- 455 Uniform circular disks with synthetically tailorable diameters: two-dimensional nanoparticles for plasmonics. *Nano Letters*, **2015**, 15, 1012-7 11.5 75

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453	REACTION DYNAMICS:Detecting Resonances. <i>Science</i> , 2000 , 288, 1599-1600	33.3	75
452	Using nanoscale and mesoscale anisotropy to engineer the optical response of three-dimensional plasmonic metamaterials. <i>Nature Communications</i> , 2014 , 5, 4090	17.4	73
451	Steered molecular dynamics studies of the potential of mean force of a Na ⁺ or K ⁺ ion in a cyclic peptide nanotube. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26448-60	3.4	71
450	Stretchable Nanolasing from Hybrid Quadrupole Plasmons. <i>Nano Letters</i> , 2018 , 18, 4549-4555	11.5	70
449	Molecular Dynamics Simulation of DNA-Functionalized Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2316-2321	3.8	70
448	Quantum Wave Packet Study of Nonadiabatic Effects in O(1D) + H ₂ -> OH + H. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 9448-9459	2.8	70
447	Ab initio and semiempirical molecular orbital studies of surface enhanced and bulk hyper-Raman scattering from pyridine. <i>Journal of Chemical Physics</i> , 1992 , 97, 3831-3845	3.9	70
446	Tip-Enhanced Raman Voltammetry: Coverage Dependence and Quantitative Modeling. <i>Nano Letters</i> , 2017 , 17, 590-596	11.5	69
445	What controls the hybridization thermodynamics of spherical nucleic acids?. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3486-9	16.4	69
444	Wavelength-Scanned Surface-Enhanced Resonance Raman Excitation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19302-19310	3.8	69
443	Mesoscale molecular network formation in amorphous organic materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10055-60	11.5	66
442	On the importance of incorporating dipole reradiation in the modeling of surface enhanced Raman scattering from spheres. <i>Journal of Chemical Physics</i> , 2009 , 131, 084708	3.9	66
441	Semiclassical vibrational eigenvalues of triatomic molecules: Application of the FFT method to SO ₂ , H ₂ O, H ₃ , and CO ₂ . <i>Journal of Chemical Physics</i> , 1984 , 81, 2394-2399	3.9	66
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439	Whispering-gallery mode resonators: Surface enhanced Raman scattering without plasmons. <i>Journal of Chemical Physics</i> , 2008 , 129, 054704	3.9	65
438	CO ₂ hydrogenation to formic acid on Ni(110). <i>Surface Science</i> , 2012 , 606, 1050-1055	1.8	64
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