

Niranjan Govind

List of Publications by Year in descending order

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162
papers

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citations

50244

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times ranked

16463
citing authors

#	ARTICLE	IF	CITATIONS
1	NWChem: A comprehensive and scalable open-source solution for large scale molecular simulations. <i>Computer Physics Communications</i> , 2010, 181, 1477-1489.	3.0	4,740
2	A generalized synchronous transit method for transition state location. <i>Computational Materials Science</i> , 2003, 28, 250-258.	1.4	1,050
3	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020, 152, 184102.	1.2	425
4	Quasiparticle Spectra from a Nonempirical Optimally Tuned Range-Separated Hybrid Density Functional. <i>Physical Review Letters</i> , 2012, 109, 226405.	2.9	236
5	Modeling Fast Electron Dynamics with Real-Time Time-Dependent Density Functional Theory: Application to Small Molecules and Chromophores. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1344-1355.	2.3	217
6	Electronic-structure calculations by first-principles density-based embedding of explicitly correlated systems. <i>Journal of Chemical Physics</i> , 1999, 110, 7677-7688.	1.2	216
7	Orbital-free kinetic-energy density functionals with a density-dependent kernel. <i>Physical Review B</i> , 1999, 60, 16350-16358.	1.1	212
8	Molecular structure and stability of dissolved lithium polysulfide species. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10923-10932.	1.3	210
9	Quantitatively Probing the Al Distribution in Zeolites. <i>Journal of the American Chemical Society</i> , 2014, 136, 8296-8306.	6.6	199
10	Linear-Response and Real-Time Time-Dependent Density Functional Theory Studies of Core-Level Near-Edge X-Ray Absorption. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3284-3292.	2.3	192
11	Accurate ab initio energetics of extended systems via explicit correlation embedded in a density functional environment. <i>Chemical Physics Letters</i> , 1998, 295, 129-134.	1.2	189
12	Curvature and Frontier Orbital Energies in Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3740-3744.	2.1	145
13	Periodic density functional embedding theory for complete active space self-consistent field and configuration interaction calculations: Ground and excited states. <i>Journal of Chemical Physics</i> , 2002, 116, 42.	1.2	142
14	Real-Time Time-Dependent Electronic Structure Theory. <i>Chemical Reviews</i> , 2020, 120, 9951-9993.	23.0	141
15	Orbital-free kinetic-energy functionals for the nearly free electron gas. <i>Physical Review B</i> , 1998, 58, 13465-13471.	1.1	139
16	Nanotube-based gas sensors – Role of structural defects. <i>Chemical Physics Letters</i> , 2006, 421, 58-62.	1.2	137
17	Supersaturated calcium carbonate solutions are classical. <i>Science Advances</i> , 2018, 4, eaao6283.	4.7	116
18	Prediction of Electronic Excited States of Adsorbates on Metal Surfaces from First Principles. <i>Physical Review Letters</i> , 2001, 86, 5954-5957.	2.9	111

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19	Optical Rotation Calculated with Time-Dependent Density Functional Theory: The OR45 Benchmark. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10930-10949.	1.1	110
20	Comparison of Real-Time and Linear-Response Time-Dependent Density Functional Theories for Molecular Chromophores Ranging from Sparse to High Densities of States. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 1102-1109.	2.3	98
21	Toward Understanding the Nature of Internal Rotation Barriers with a New Energy Partition Scheme: Ethane and <i>n</i> -Butane. <i>Journal of Physical Chemistry A</i> , 2008, 112, 6690-6699.	1.1	90
22	Revisiting the hydration structure of aqueous Na ⁺ . <i>Journal of Chemical Physics</i> , 2017, 146, 084504.	1.2	90
23	Utilizing high performance computing for chemistry: parallel computational chemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6896.	1.3	84
24	Excited-State Studies of Polyacenes: A Comparative Picture Using EOMCCSD, CR-EOMCCSD(T), Range-Separated (LR/RT)-TDDFT, TD-PM3, and TD-ZINDO. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3686-3693.	2.3	84
25	Long Live Vinylidene! A New View of the H ₂ CC=CH ⁺ HC≡CH Rearrangement from ab Initio Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2001, 123, 641-657.	6.6	83
26	Accurate dipole polarizabilities for water clusters <i>n</i> =2-12 at the coupled-cluster level of theory and benchmarking of various density functionals. <i>Journal of Chemical Physics</i> , 2009, 131, 214103.	1.2	83
27	Core and valence excitations in resonant X-ray spectroscopy using restricted excitation window time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2012, 137, 194306.	1.2	83
28	Charge-Transfer Versus Charge-Transfer-Like Excitations Revisited. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3305-3320.	2.3	75
29	ISICLE: A Quantum Chemistry Pipeline for Establishing in Silico Collision Cross Section Libraries. <i>Analytical Chemistry</i> , 2019, 91, 4346-4356.	3.2	74
30	Tracking the Chemical Transformations at the Brønsted Acid Site upon Water-Induced Deprotonation in a Zeolite Pore. <i>Chemistry of Materials</i> , 2017, 29, 9030-9042.	3.2	71
31	Excited State Absorption from Real-Time Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4294-4303.	2.3	70
32	Magnetic Ordering in Gold Nanoclusters. <i>ACS Omega</i> , 2017, 2, 2607-2617.	1.6	69
33	Gaussian Basis Set and Planewave Relativistic Spin-Orbit Methods in NWChem. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 491-499.	2.3	66
34	Excited States of DNA Base Pairs Using Long-Range Corrected Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9761-9765.	1.1	64
35	Excitation Energies of Zinc Porphyrin in Aqueous Solution Using Long-Range Corrected Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6041-6043.	1.1	60
36	Exploring the origin of the internal rotational barrier for molecules with one rotatable dihedral angle. <i>Journal of Chemical Physics</i> , 2008, 129, 094104.	1.2	59

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37	Active-space completely-renormalized equation-of-motion coupled-cluster formalism: Excited-state studies of green fluorescent protein, free-base porphyrin, and oligoporphyrin dimer. <i>Journal of Chemical Physics</i> , 2010, 132, 154103.	1.2	59
38	Simulating Ru L ₃ -Edge X-ray Absorption Spectroscopy with Time-Dependent Density Functional Theory: Model Complexes and Electron Localization in Mixed-Valence Metal Dimers. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4444-4454.	1.1	59
39	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. <i>Nature Chemistry</i> , 2021, 13, 343-349.	6.6	59
40	Performance of DFT Methods in the Calculation of Optical Spectra of TCF-Chromophores. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2835-2846.	2.3	54
41	Structure and Dynamics of Polysulfide Clusters in a Nonaqueous Solvent Mixture of 1,3-Dioxolane and 1,2-Dimethoxyethane. <i>Chemistry of Materials</i> , 2019, 31, 2308-2319.	3.2	54
42	Zeolite-Catalyzed Hydrocarbon Formation from Methanol: Density Functional Simulations. <i>International Journal of Molecular Sciences</i> , 2002, 3, 423-434.	1.8	51
43	Simulating One-Photon Absorption and Resonance Raman Scattering Spectra Using Analytical Excited State Energy Gradients within Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5490-5503.	2.3	49
44	Simulating Valence-to-Core X-ray Emission Spectroscopy of Transition Metal Complexes with Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5804-5809.	2.3	49
45	Carbon-supported Pt during aqueous phenol hydrogenation with and without applied electrical potential: X-ray absorption and theoretical studies of structure and adsorbates. <i>Journal of Catalysis</i> , 2018, 368, 8-19.	3.1	49
46	Near and Above Ionization Electronic Excitations with Non-Hermitian Real-Time Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4939-4946.	2.3	48
47	Electric Field Gradients Calculated from Two-Component Hybrid Density Functional Theory Including Spin-Orbit Coupling. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2669-2686.	2.3	47
48	DFT study of methanol conversion to hydrocarbons in a zeolite catalyst. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 467-473.	1.0	46
49	Structural Elucidation of <i>cis</i> / <i>trans</i> Dicafeoylquinic Acid Photoisomerization Using Ion Mobility Spectrometry-Mass Spectrometry. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1381-1388.	2.1	45
50	Optical Properties of Nanocrystal Interfaces in Compressed MgO Nanopowders. <i>ACS Nano</i> , 2011, 5, 3003-3009.	7.3	43
51	Optical Absorption and Band Gap Reduction in (Fe _{1-x} Cr _x) ₂ O ₃ Solid Solutions: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25504-25512.	1.5	43
52	Infrared and Raman Spectroscopy from Ab Initio Molecular Dynamics and Static Normal Mode Analysis: The C-H Region of DMSO as a Case Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1429-1436.	1.2	43
53	Benchmark results and theoretical treatments for valence-to-core x-ray emission spectroscopy in transition metal compounds. <i>Physical Review B</i> , 2017, 96, .	1.1	43
54	Scalar Relativistic Computations of Nuclear Magnetic Shielding and <i>g</i> -Shifts with the Zeroth-Order Regular Approximation and Range-Separated Hybrid Density Functionals. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 3278-3292.	2.3	42

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55	Communication: Application of state-specific multireference coupled cluster methods to core-level excitations. <i>Journal of Chemical Physics</i> , 2012, 137, 171101.	1.2	42
56	Comprehensive Experimental and Computational Spectroscopic Study of Hexacyanoferrate Complexes in Water: From Infrared to X-ray Wavelengths. <i>Journal of Physical Chemistry B</i> , 2018, 122, 5075-5086.	1.2	40
57	Highly Selective Colorimetric and Luminescence Response of a Square-Planar Platinum(II) Terpyridyl Complex to Aqueous TcO_4^- . <i>Inorganic Chemistry</i> , 2015, 54, 9914-9923.	1.9	39
58	From NWChem to NWChemEx: Evolving with the Computational Chemistry Landscape. <i>Chemical Reviews</i> , 2021, 121, 4962-4998.	23.0	39
59	Reliable modeling of the electronic spectra of realistic uranium complexes. <i>Journal of Chemical Physics</i> , 2013, 139, 034301.	1.2	37
60	An automated framework for NMR chemical shift calculations of small organic molecules. <i>Journal of Cheminformatics</i> , 2018, 10, 52.	2.8	37
61	Efficient Algorithms for Estimating the Absorption Spectrum within Linear Response TDDFT. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5197-5208.	2.3	35
62	Optical absorption and spectral photoconductivity in $\text{La}^{2+}\text{FeCr}_2\text{O}_3$ solid-solution thin films. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 392002.	0.7	33
63	Influence of Coherent Tunneling and Incoherent Hopping on the Charge Transfer Mechanism in Linear Donor-Bridge-Acceptor Systems. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4889-4897.	2.1	32
64	Excited-state absorption in tetrapyrrolyl porphyrins: comparing real-time and quadratic-response time-dependent density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27452-27462.	1.3	32
65	Total-energy calculations using a gradient-expanded kinetic-energy functional. <i>Physical Review B</i> , 1994, 50, 11175-11178.	1.1	31
66	Equilibrium structure and bonding of small silicon clusters studied using an orbital-free kinetic-energy functional. <i>Physical Review B</i> , 1995, 51, 7101-7103.	1.1	31
67	Excited-State Absorption from Real-Time Time-Dependent Density Functional Theory: Optical Limiting in Zinc Phthalocyanine. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1387-1391.	2.1	31
68	Probing Sulfur Chemical and Electronic Structure with Experimental Observation and Quantitative Theoretical Prediction of $\text{K}\alpha$ and Valence-to-Core $\text{K}\beta$ X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5415-5434.	1.1	30
69	Photochemical Properties, Composition, and Structure in Molecular Beam Epitaxy Grown Fe-Doped and (Fe,N) Codoped Rutile $\text{TiO}_2(110)$. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15416-15424.	1.5	28
70	Excitons in potassium bromide: A study using embedded time-dependent density functional theory and equation-of-motion coupled cluster methods. <i>Chemical Physics Letters</i> , 2009, 470, 353-357.	1.2	27
71	NWChem: scalable parallel computational chemistry. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 888-894.	6.2	27
72	X-ray circular dichroism signals: a unique probe of local molecular chirality. <i>Chemical Science</i> , 2017, 8, 5969-5978.	3.7	27

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73	Visible Light Absorption of N-Doped TiO ₂ Rutile Using (LR/RT)-TDDFT and Active Space EOMCCSD Calculations. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2696-2701.	2.1	26
74	KlÄneret al.Reply:. <i>Physical Review Letters</i> , 2002, 88, .	2.9	25
75	Entangled Valence Electron-Hole Dynamics Revealed by Stimulated Attosecond X-ray Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2326-2331.	2.1	25
76	Elucidation of the photoaquation reaction mechanism in ferrous hexacyanide using synchrotron x-rays with sub-pulse-duration sensitivity. <i>Journal of Chemical Physics</i> , 2019, 151, 144306.	1.2	24
77	Unsupervised machine learning for unbiased chemical classification in X-ray absorption spectroscopy and X-ray emission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23586-23601.	1.3	23
78	Formation, stability, and mobility of self-trapped excitations in NaI and NaI<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>TL<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:msub></mml:math>from first principles. <i>Physical Review B</i> , 2013, 87, .	1.1	21
79	Lithium Insertion Mechanism in Iron Fluoride Nanoparticles Prepared by Catalytic Decomposition of Fluoropolymer. <i>ACS Applied Energy Materials</i> , 2019, 2, 1832-1843.	2.5	21
80	Surface Functionalization of Black Phosphorus with Nitrenes: Identification of P=N Bonds by Using Isotopic Labeling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9127-9134.	7.2	21
81	Activity of Cu-Ä-Al-Ä-Oxo Extra-Framework Clusters for Selective Methane Oxidation on Cu-Exchanged Zeolites. <i>Jacs Au</i> , 2021, 1, 1412-1421.	3.6	21
82	EOMCC, MRPT, and TDDFT Studies of Charge Transfer Processes in Mixed-Valence Compounds: Application to the Spiro Molecule^Ä. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8764-8771.	1.1	20
83	A Redundant Communication Approach to Scalable Fault Tolerance in PGAS Programming Models. , 2011, , .		20
84	Electronic and Chemical State of Aluminum from the Single- (K) and Double-Electron Excitation (KL_{II&III}, KL_I) X-ray Absorption Near-Edge Spectra of Ä-Alumina, Sodium Aluminate, Aqueous Al³⁺-Ä-(H₂O)₆, and Aqueous Al(OH)₄^Ä. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8380-8388.	1.2	20
85	First Principles Nonadiabatic Excited-State Molecular Dynamics in NWChem. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6418-6427.	2.3	20
86	Comparison of Cluster, Slab, and Analytic Potential Models for the Dimethyl Methylphosphonate (DMMP)/TiO₂(110) Intermolecular Interaction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17613-17622.	1.5	18
87	Monitoring Long-Range Electron Transfer Pathways in Proteins by Stimulated Attosecond Broadband X-ray Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3656-3661.	2.1	18
88	Emerging investigator series: methylmercury speciation and dimethylmercury production in sulfidic solutions. <i>Environmental Sciences: Processes and Impacts</i> , 2018, 20, 584-594.	1.7	17
89	Revealing the bonding of solvated Ru complexes with valence-to-core resonant inelastic X-ray scattering. <i>Chemical Science</i> , 2021, 12, 3713-3725.	3.7	17
90	Scalable Molecular GW Calculations: Valence and Core Spectra. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7504-7517.	2.3	17

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91	Direct Dynamics Simulation of Dissociation of the $[\text{CH}_3\text{-I-OH}]^+$ Ion-Molecule Complex. <i>Journal of Physical Chemistry A</i> , 2015, 119, 817-825.	1.1	16
92	Precursor Ion Aggregation in the Brust-Schiffrin Synthesis of Alkanethiol Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19837-19847.	1.5	16
93	Modeling Optical Spectra of Large Organic Systems Using Real-Time Propagation of Semiempirical Effective Hamiltonians. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4410-4420.	2.3	16
94	Resonant Inelastic X-ray Scattering Calculations of Transition Metal Complexes Within a Simplified Time-Dependent Density Functional Theory Framework. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3031-3038.	2.3	16
95	Dissociation Chemistry of Gas Molecules on Carbon Nanotubes Applications to Chemical Sensing. <i>IEEE Sensors Journal</i> , 2008, 8, 837-841.	2.4	15
96	An Ab Initio Multiple Cloning Method for Non-Adiabatic Excited-State Molecular Dynamics in NWChem. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3629-3643.	2.3	15
97	Effect of surface phosphorus on the oxidative dehydrogenation of ethane: A first-principles investigation. <i>Journal of Chemical Physics</i> , 2002, 117, 8080-8088.	1.2	14
98	Self-learning kinetic Monte Carlo simulations of Al diffusion in Mg. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 155001.	0.7	14
99	<i>ISPECTRON</i> : A simulation interface for linear and nonlinear spectra with ab initio quantum chemistry software. <i>Journal of Computational Chemistry</i> , 2021, 42, 644-659.	1.5	14
100	Theoretical study of the mechanism behind the <i>para</i> -selective nitration of toluene in zeolite H-Beta. <i>Molecular Simulation</i> , 2008, 34, 1025-1039.	0.9	13
101	Photoelectron spectroscopy of higher bromine and iodine oxide anions: Electron affinities and electronic structures of BrO_2^- and IO_2^- radicals. <i>Journal of Chemical Physics</i> , 2011, 135, 184309.	1.2	13
102	Theoretical studies of the global minima and polarizabilities of small lithium clusters. <i>Chemical Physics Letters</i> , 2016, 644, 235-242.	1.2	13
103	Nonequilibrium Chemical Effects in Single-Molecule SERS Revealed by Ab Initio Molecular Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1344-1350.	1.1	13
104	Influence of Interligand Interactions and Core-Charge Distribution on Gold Cluster Stability: Enthalpy Versus Entropy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24899-24911.	1.5	13
105	Unraveling the spectral signatures of solvent ordering in K-edge XANES of aqueous Na^+ . <i>Journal of Chemical Physics</i> , 2018, 149, 124503.	1.2	12
106	10. Computational Materials Science with Materials Studio [®] : Applications in Catalysis. <i>Lecture Notes in Physics</i> , 0, , 207-221.	0.3	11
107	Electron transfer beyond the static picture: A TDDFT/TD-ZINDO study of a pentacene dimer. <i>Journal of Chemical Physics</i> , 2012, 137, 22A502.	1.2	11
108	A Combined Gas-Phase Photoelectron Spectroscopic and Theoretical Study of Zeise's Anion and Its Bromine and Iodine Analogues. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6356-6360.	7.2	11

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109	Simulating Cl K-edge X-ray absorption spectroscopy in MCl ₆ 2 ⁺ (M=U, Np, Pu) complexes and UOCl ₅ ⁺ using time-dependent density functional theory. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	11
110	Toward Enabling Large-Scale Open-Shell Equation-of-Motion Coupled Cluster Calculations: Triplet States of 1 ² -Carotene. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9087-9093.	1.1	11
111	Efficient block preconditioned eigensolvers for linear response time-dependent density functional theory. <i>Computer Physics Communications</i> , 2017, 221, 42-52.	3.0	11
112	Double core hole valence-to-core x-ray emission spectroscopy: A theoretical exploration using time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2019, 151, 144114.	1.2	11
113	Near-Edge X-ray Absorption Fine Structure Spectroscopy of Heteroatomic Core-Hole States as a Probe for Nearly Indistinguishable Chemical Environments. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 556-561.	2.1	11
114	Ion Mobility Spectrometry Characterization of the Intermediate Hydrogen-Containing Gold Cluster Au ₇ (PPh ₃) ₃ ₇ H ₅ ²⁺ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2502-2508.	2.1	11
115	Spectral Signatures of Ultrafast Excited-State Intramolecular Proton Transfer from Computational Multi-edge Transient X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9840-9847.	2.1	11
116	Time Domain Simulations of Single Molecule Raman Scattering. <i>Journal of Physical Chemistry A</i> , 2018, 122, 7437-7442.	1.1	10
117	A semiempirical effective Hamiltonian based approach for analyzing excited state wave functions and computing excited state absorption spectra using real-time dynamics. <i>Journal of Chemical Physics</i> , 2019, 150, 104103.	1.2	10
118	Valence-to-core X-ray emission spectroscopy of vanadium oxide and lithiated vanadyl phosphate materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16332-16344.	5.2	10
119	Computational approaches for XANES, VtC-XES, and RIXS using linear-response time-dependent density functional theory based methods. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14680-14691.	1.3	10
120	Density-functional study of the stabilization of the Si(001) dimer vacancy by Ni. <i>Physical Review B</i> , 2002, 66, .	1.1	9
121	The role of cytosine methylation on charge transport through a DNA strand. <i>Journal of Chemical Physics</i> , 2015, 143, 094306.	1.2	9
122	Coupled Cluster Studies of Ionization Potentials and Electron Affinities of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1328-1335.	1.1	9
123	Projector-Based Quantum Embedding for Molecular Systems: An Investigation of Three Partitioning Approaches. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6384-6393.	1.1	9
124	Manipulating valence and core electronic excitations of a transition-metal complex using UV/Vis and X-ray cavities. <i>Chemical Science</i> , 2021, 12, 8088-8095.	3.7	9
125	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 378-386.	2.1	9
126	Basis Set Selection for Molecular Core-Level <i>GW</i> Calculations. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 4919-4926.	2.3	9

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127	Advances in Scalable Computational Chemistry. Annual Reports in Computational Chemistry, 2011, 7, 151-177.	0.9	8
128	Cation-Cation Interactions in $[(UO_2)_2(OH)_n]^{4-n+}$ Complexes. Inorganic Chemistry, 2013, 52, 11269-11279.	1.9	8
129	Quantum time dynamics employing the Yang-Baxter equation for circuit compression. Physical Review A, 2022, 106, .	1.0	8
130	Aqua-Vanadyl Ion Interaction with Nafion [®] Membranes. Frontiers in Energy Research, 2015, 3, .	1.2	7
131	Simplified Ab Initio Molecular Dynamics-Based Raman Spectral Simulations. Applied Spectroscopy, 2020, 74, 1350-1357.	1.2	7
132	Resonant Stimulated X-ray Raman Spectroscopy of Mixed-Valence Manganese Complexes. Journal of Physical Chemistry Letters, 2021, 12, 5925-5931.	2.1	7
133	Informed Chemical Classification of Organophosphorus Compounds via Unsupervised Machine Learning of X-ray Absorption Spectroscopy and X-ray Emission Spectroscopy. Journal of Physical Chemistry A, 2022, 126, 4862-4872.	1.1	7
134	Electron Ionization Mass Spectrum of Tellurium Hexafluoride. Inorganic Chemistry, 2015, 54, 4821-4826.	1.9	6
135	In Silico Ultrafast Nonlinear Spectroscopy Meets Experiments: The Case of Perylene Bisimide Dye. Journal of Chemical Theory and Computation, 2021, 17, 7134-7145.	2.3	6
136	Proton Affinity Values of Fentanyl and Fentanyl Analogues Pertinent to Ambient Ionization and Detection. Journal of the American Society for Mass Spectrometry, 2022, 33, 482-490.	1.2	6
137	Optimal Tuning Perspective of Range-Separated Double Hybrid Functionals. Journal of Chemical Theory and Computation, 2022, 18, 2331-2340.	2.3	6
138	Near-Quantitative Predictions of the First-Shell Coordination Structure of Hydrated First-Row Transition Metal Ions Using K-Edge X-ray Absorption Near-Edge Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 6323-6330.	2.1	6
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140	Resonant X-ray Sum-Frequency-Generation Spectroscopy of K-Edges in Acetyl Fluoride. Journal of Chemical Theory and Computation, 2019, 15, 6832-6839.	2.3	5
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