

Niranjan Govind

List of Publications by Year in descending order

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162
papers

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times ranked

16463
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray absorption spectroscopy of trivalent Eu, Gd, Tb, and Dy chlorides and oxychlorides. Journal of Alloys and Compounds, 2022, 897, 162629.	2.8	4
2	Iron redox analysis of silicate-based minerals and glasses using synchrotron X-ray absorption and laboratory X-ray emission spectroscopy. Journal of Non-Crystalline Solids, 2022, 577, 121326.	1.5	0
3	Femtosecond X-ray Spectroscopy Directly Quantifies Transient Excited-State Mixed Valency. Journal of Physical Chemistry Letters, 2022, 13, 378-386.	2.1	9
4	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
5	Optimal Tuning Perspective of Range-Separated Double Hybrid Functionals. Journal of Chemical Theory and Computation, 2022, 18, 2331-2340.	2.3	6
6	Computational approaches for XANES, VtC-XES, and RIXS using linear-response time-dependent density functional theory based methods. Physical Chemistry Chemical Physics, 2022, 24, 14680-14691.	1.3	10
7	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
8	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
9	Quantum time dynamics employing the Yang-Baxter equation for circuit compression. Physical Review A, 2022, 106, .	1.0	8
10	Basis Set Selection for Molecular Core-Level GW Calculations. Journal of Chemical Theory and Computation, 2022, 18, 4919-4926.	2.3	9
11	Surface Functionalization of Black Phosphorus with Nitrenes: Identification of P=N Bonds by Using Isotopic Labeling. Angewandte Chemie - International Edition, 2021, 60, 9127-9134.	7.2	21
12	Surface Functionalization of Black Phosphorus with Nitrenes: Identification of P=N Bonds by Using Isotopic Labeling. Angewandte Chemie, 2021, 133, 9209-9216.	1.6	0
13	iSPECTRON: A simulation interface for linear and nonlinear spectra with ab initio quantum chemistry software. Journal of Computational Chemistry, 2021, 42, 644-659.	1.5	14
14	Direct observation of coherent femtosecond solvent reorganization coupled to intramolecular electron transfer. Nature Chemistry, 2021, 13, 343-349.	6.6	59
15	Ion Mobility Spectrometry Characterization of the Intermediate Hydrogen-Containing Gold Cluster Au ₇ (PPh ₃) ₇ H ₅ ²⁺ . Journal of Physical Chemistry Letters, 2021, 12, 2502-2508.	2.1	11
16	From NWChem to NWChemEx: Evolving with the Computational Chemistry Landscape. Chemical Reviews, 2021, 121, 4962-4998.	23.0	39
17	Resonant Inelastic X-ray Scattering Calculations of Transition Metal Complexes Within a Simplified Time-Dependent Density Functional Theory Framework. Journal of Chemical Theory and Computation, 2021, 17, 3031-3038.	2.3	16
18	An Ab Initio Multiple Cloning Method for Non-Adiabatic Excited-State Molecular Dynamics in NWChem. Journal of Chemical Theory and Computation, 2021, 17, 3629-3643.	2.3	15

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19	Resonant Stimulated X-ray Raman Spectroscopy of Mixed-Valence Manganese Complexes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5925-5931.	2.1	7
20	Ultrafast x-ray pump x-ray probe transient absorption spectroscopy: A computational study and proposed experiment probing core-valence electronic correlations in solvated complexes. <i>Journal of Chemical Physics</i> , 2021, 154, 214107.	1.2	5
21	Mechanistic Investigation of Dimethylmercury Formation Mediated by a Sulfide Mineral Surface. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5397-5405.	1.1	3
22	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
23	Activity of Cu ^{II} -Oxo Extra-Framework Clusters for Selective Methane Oxidation on Cu-Exchanged Zeolites. <i>Jacs Au</i> , 2021, 1, 1412-1421.	3.6	21
24	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
25	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
26	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
27	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
28	In Silico Ultrafast Nonlinear Spectroscopy Meets Experiments: The Case of Perylene Bisimide Dye. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7134-7145.	2.3	6
29	Scalable Molecular GW Calculations: Valence and Core Spectra. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7504-7517.	2.3	17
30	Evidence of Skewness and Sub-Gaussian Character in Temperature-Dependent Distributions of One Million Electronic Excitation Energies in PbS Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 986-992.	2.1	3
31	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
32	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
33	Real-Time Time-Dependent Electronic Structure Theory. <i>Chemical Reviews</i> , 2020, 120, 9951-9993.	23.0	141
34	First Principles Nonadiabatic Excited-State Molecular Dynamics in NWChem. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6418-6427.	2.3	20
35	Probing Sulfur Chemical and Electronic Structure with Experimental Observation and Quantitative Theoretical Prediction of K _L and Valence-to-Core K _L ² X-ray Emission Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5415-5434.	1.1	30
36	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020, 152, 184102.	1.2	425

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37	<i>Ab initio</i> calculations of the rate of carrier trapping and release at dopant sites in NaI: Tl beyond the harmonic approximation. <i>Physical Review B</i> , 2020, 101, .	1.1	2
38	Simplified <i>Ab Initio</i> Molecular Dynamics-Based Raman Spectral Simulations. <i>Applied Spectroscopy</i> , 2020, 74, 1350-1357.	1.2	7
39	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
40	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
41	Resonant X-ray Sum-Frequency-Generation Spectroscopy of K-Edges in Acetyl Fluoride. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6832-6839.	2.3	5
42	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
43	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
44	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
45	ISICLE: A Quantum Chemistry Pipeline for Establishing in Silico Collision Cross Section Libraries. <i>Analytical Chemistry</i> , 2019, 91, 4346-4356.	3.2	74
46	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
47	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
48	Supersaturated calcium carbonate solutions are classical. <i>Science Advances</i> , 2018, 4, eaao6283.	4.7	116
49	Deviation from the <i>trans</i> -Effect in Ligand-Exchange Reactions of Zeise TM s Ions PtCl ₃ (C ₂ H ₄) ⁺ with Heavier Halides (Br ⁺ , I ⁺). <i>Inorganic Chemistry</i> , 2018, 57, 4831-4834.	0.784314	1
50	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
51	Magnetic-Bottle and velocity-map imaging photoelectron spectroscopy of APS ⁺ (A=C ₁₄ H ₁₀ or Tj ETQq1 1 0.784314 rgBT /Overlock 1 0.6). <i>Journal of Chemical Physics</i> , 2018, 31, 463-470.	0.6	3
52	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
53	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
54	An automated framework for NMR chemical shift calculations of small organic molecules. <i>Journal of Cheminformatics</i> , 2018, 10, 52.	2.8	37

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55	Time Domain Simulations of Single Molecule Raman Scattering. Journal of Physical Chemistry A, 2018, 122, 7437-7442.	1.1	10
56	Chapter 4. Embedding Methods in Materials Discovery. , 2018, , 87-116.		4
57	Coupled Cluster Studies of Ionization Potentials and Electron Affinities of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry A, 2017, 121, 1328-1335.	1.1	9
58	Structural Elucidation of <i>cis</i> / <i>trans</i> Dicafeoylquinic Acid Photoisomerization Using Ion Mobility Spectrometry-Mass Spectrometry. Journal of Physical Chemistry Letters, 2017, 8, 1381-1388.	2.1	45
59	Revisiting the hydration structure of aqueous Na ⁺ . Journal of Chemical Physics, 2017, 146, 084504.	1.2	90
60	Nonequilibrium Chemical Effects in Single-Molecule SERS Revealed by Ab Initio Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2017, 121, 1344-1350.	1.1	13
61	Magnetic Ordering in Gold Nanoclusters. ACS Omega, 2017, 2, 2607-2617.	1.6	69
62	Effect of doping and chemical ordering on the optoelectronic properties of complex oxides: Fe ₂ O ₃ ∕V ₂ O ₃ solid solutions and hetero-structures. Physical Chemistry Chemical Physics, 2017, 19, 1097-1107.	1.3	4
63	Tracking the Chemical Transformations at the Brønsted Acid Site upon Water-Induced Deprotonation in a Zeolite Pore. Chemistry of Materials, 2017, 29, 9030-9042.	3.2	71
64	Excited-state absorption in tetrapyrridyl porphyrins: comparing real-time and quadratic-response time-dependent density functional theory. Physical Chemistry Chemical Physics, 2017, 19, 27452-27462.	1.3	32
65	Benchmark results and theoretical treatments for valence-to-core x-ray emission spectroscopy in transition metal compounds. Physical Review B, 2017, 96, .	1.1	43
66	Efficient block preconditioned eigensolvers for linear response time-dependent density functional theory. Computer Physics Communications, 2017, 221, 42-52.	3.0	11
67	Modeling Optical Spectra of Large Organic Systems Using Real-Time Propagation of Semiempirical Effective Hamiltonians. Journal of Chemical Theory and Computation, 2017, 13, 4410-4420.	2.3	16
68	X-ray circular dichroism signals: a unique probe of local molecular chirality. Chemical Science, 2017, 8, 5969-5978.	3.7	27
69	Monitoring Excited State Charge Transfer of Transition Metal Mixed-Valence Complexes with Femtosecond X-ray Absorption and Emission Spectroscopy. , 2016, , .		1
70	Excited-State Absorption from Real-Time Time-Dependent Density Functional Theory: Optical Limiting in Zinc Phthalocyanine. Journal of Physical Chemistry Letters, 2016, 7, 1387-1391.	2.1	31
71	Precursor Ion∕Ion Aggregation in the Brust∕Schiffrin Synthesis of Alkanethiol Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 19837-19847.	1.5	16
72	Theoretical studies of the global minima and polarizabilities of small lithium clusters. Chemical Physics Letters, 2016, 644, 235-242.	1.2	13

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73	Self-learning kinetic Monte Carlo simulations of Al diffusion in Mg. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 155001.	0.7	14
74	Time-Domain Simulations of Transient Species in Experimentally Relevant Environments. <i>Journal of Physical Chemistry A</i> , 2016, 120, 556-561.	1.1	1
75	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
76	The role of cytosine methylation on charge transport through a DNA strand. <i>Journal of Chemical Physics</i> , 2015, 143, 094306.	1.2	9
77	Aqua-Vanadyl Ion Interaction with Nafion [®] Membranes. <i>Frontiers in Energy Research</i> , 2015, 3, .	1.2	7
78	Charge-Transfer Versus Charge-Transfer-Like Excitations Revisited. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3305-3320.	2.3	75
79	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
80	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
81	Direct Dynamics Simulation of Dissociation of the [CH ₃ -I-OH] ⁺ Ion-Molecule Complex. <i>Journal of Physical Chemistry A</i> , 2015, 119, 817-825.	1.1	16
82	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 α -Alumina, Sodium Aluminate, Aqueous Al ³⁺ ·(H ₂ O) ₆ , and Aqueous Al(OH) ₄ ⁻ . <i>Journal of Physical Chemistry B</i> , 2015, 119, 8380-8388.	1.2	20
83	Electron Ionization Mass Spectrum of Tellurium Hexafluoride. <i>Inorganic Chemistry</i> , 2015, 54, 4821-4826.	1.9	6
84	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
85	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
86	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
87	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>Highlights in Theoretical Chemistry</i> , 2015, , 247-253.	0.0	2
88	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
89	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
90	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

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91	Quantitatively Probing the Al Distribution in Zeolites. <i>Journal of the American Chemical Society</i> , 2014, 136, 8296-8306.	6.6	199
92	Molecular structure and stability of dissolved lithium polysulfide species. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10923-10932.	1.3	210
93	Toward Enabling Large-Scale Open-Shell Equation-of-Motion Coupled Cluster Calculations: Triplet States of $\dot{\text{I}}^2$ -Carotene. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9087-9093.	1.1	11
94	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
95	Optical Absorption and Band Gap Reduction in $(\text{Fe}_{1-x}\text{Cr}_x)\text{TiO}_3$ Solid Solutions: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25504-25512.	1.5	43
96	Substituent effects on the geometric and electronic properties of tetracyano- p -quinodimethane (TCNQ): a theoretical study. <i>Molecular Simulation</i> , 2013, 39, 350-356.	0.9	5
97	Cation-Cation Interactions in $[(\text{UO}_2)_2(\text{OH})_4]^{4-}$ Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 11269-11279.	1.9	8
98	Comparison of Cluster, Slab, and Analytic Potential Models for the Dimethyl Methylphosphonate (DMMP)/ $\text{TiO}_2(110)$ Intermolecular Interaction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17613-17622.	1.5	18
99	Formation, stability, and mobility of self-trapped excitations in NaI and $\text{NaI}(\text{C}_6\text{H}_6)$. <i>Physical Review B</i> , 2013, 87, 154111. https://doi.org/10.1103/PhysRevB.87.154111		
100	Simulating Ru $L_{2,3}$ -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
101	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
102	Reliable modeling of the electronic spectra of realistic uranium complexes. <i>Journal of Chemical Physics</i> , 2013, 139, 034301.	1.2	37
103	Optical absorption and spectral photoconductivity in $\text{Fe}_{1-x}\text{Cr}_x\text{O}_3$ solid-solution thin films. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 392002.	0.7	33
104	Dissecting X-Ray Raman Resonances Using Four-Wave Mixing. <i>EPJ Web of Conferences</i> , 2013, 41, 05040.	0.1	0
105	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
106	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
107	Curvature and Frontier Orbital Energies in Density Functional Theory. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3740-3744.	2.1	145
108	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

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109	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
110	Quasiparticle Spectra from a Nonempirical Optimally Tuned Range-Separated Hybrid Density Functional. <i>Physical Review Letters</i> , 2012, 109, 226405.	2.9	236
111	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
112	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
113	Photochemical Properties, Composition, and Structure in Molecular Beam Epitaxy Grown Fe-Doped and (Fe,N) Codoped Rutile TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2011, 115, 15416-15424.	1.5	28
114	Optical Properties of Nanocrystal Interfaces in Compressed MgO Nanopowders. <i>ACS Nano</i> , 2011, 5, 3003-3009.	7.3	43
115	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
116	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
117	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
118	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
119	Theoretical Study of the Mechanism behind the Para-Selective Nitration of Toluene in Zeolite H-Beta. , 2011, , 1-22.		0
120	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
121	A Redundant Communication Approach to Scalable Fault Tolerance in PGAS Programming Models. , 2011, , .		20
122	NWChem: scalable parallel computational chemistry. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 888-894.	6.2	27
123	Photoelectron spectroscopy of higher bromine and iodine oxide anions: Electron affinities and electronic structures of BrO _{2,3} and IO ₂ ⁻⁴ radicals. <i>Journal of Chemical Physics</i> , 2011, 135, 184309.	1.2	13
124	Advances in Scalable Computational Chemistry. <i>Annual Reports in Computational Chemistry</i> , 2011, 7, 151-177.	0.9	8
125	Application-Specific Fault Tolerance via Data Access Characterization. <i>Lecture Notes in Computer Science</i> , 2011, , 340-352.	1.0	4
126	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

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127	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
128	EOMCC, MRPT, and TDDFT Studies of Charge Transfer Processes in Mixed-Valence Compounds: Application to the Spiro Molecule. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8764-8771.	1.1	20
129	Utilizing high performance computing for chemistry: parallel computational chemistry. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6896.	1.3	84
130	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
131	Computational Nanoscience with NWChem. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 1297-1304.	0.4	1
132	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
133	Accurate dipole polarizabilities for water clusters $n=2-12$ 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
134	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
135	Reply to "Comment on "Excited States of DNA Base Pairs Using Long-Range Corrected Time-Dependent Density Functional Theory". <i>Journal of Physical Chemistry A</i> , 2009, 113, 11095-11095.	1.1	3
136	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
137	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
138	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
139	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
140	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
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142	Performance of DFT Methods in the Calculation of Optical Spectra of Chromophores. , 2008, , .		1
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